The history of Cork Institute of Technology (CIT) is a long and honourable one. The Royal Cork Institution, which may be regarded as the precursor of both University College Cork and Cork Regional Technical College, was in existence as early as 1802 and received its Royal Charter in 1807. It was especially famous for its chemistry education. It amalgamated with the Royal Society for the Promotion of Fine Art in 1825 and the expanded new Royal Cork Institution acquired the Custom House in 1832.

The School of Design was established in Cork in 1850 and evolved into the Crawford Municipal School of Art, which formally came into existence at Emmet Place in 1885. The School moved to the former Crawford Municipal Technical Institute in Shanrman Crawford Street in 1980 and was renamed the Crawford College of Art and Design in 1986.

The Technical Instruction Committee of Cork Corporation was established in 1901 and it proceeded to further develop technical education in Cork. In 1909 it decided to establish a Technical College which was opened in 1912 and named The Crawford Municipal Technical Institute. The institution was named after Mr A F Sharman Crawford who donated the site on the then named Filton Street. While tracing its origins to the Royal Cork Institution, its immediate precursor was the School of Science, established in 1854, that came under the jurisdiction of the Corporation’s Technical Instruction Committee in 1901.

The new Crawford Municipal Technical Institute offered tuition in a wide variety of technical subjects. For a period in the 1920s, it participated in a degree in engineering in University College, Cork. The range of its courses grew over the years. A National University of Ireland Diploma in Chemical Technology was, with the cooperation and involvement of University College Cork, established in 1941. A course in Marine Engineering was established in 1944. In 1955 the first two-year Certificate in Industrial Science was introduced. In the 1960's various courses in Civil Engineering, Electronics, and Mechanical Engineering came into being.

In 1963 the building courses were transferred to the new School of Building at Sawmill Street from the overcrowded Institute. The Institute's Electrical Trades Section was later located at Paul Street, Cork. Other engineering classes were conducted in the Deanery, Dean Street.

The new Cork Regional Technical College (CRTC) was established in October 1974. It incorporated The Crawford Municipal Technical Institute, the School of Building, and the Electrical Engineering extension previously housed in Paul Street. Certain business courses and staff were transferred to the new College from the City of Cork VEC’s School of Commerce at Morrison’s Island. The College was officially opened in January, 1977, by the then Taoiseach, Mr Jack Lynch TD.

As a result of a national manpower review, Higher Education Institutions were asked to submit proposals to the Department of Education in 1978 for new degree courses which would enhance the graduate manpower skills of the Irish workforce. The CRTC under the direction of its Principal James P Roche proposed four degree courses: Chemical Engineering (Technology), Electrical and Electronic Engineering, Mechanical Engineering, and Computing. There was intense activity in the College to prepare course material for the courses and to seek accreditation from the National Council for Educational Awards. The initiative was successful and the first graduates of these courses were awarded their parchments in 1983. The courses developed much respect from stakeholders in society and industry. Subsequently, the Institution of Engineers of Ireland accredited the courses for professional membership of the Institution and admitted the graduates of these courses in Chemical Engineering (Technology), Electrical and Electronic Engineering, and in Mechanical Engineering to membership of the Institution. Separately the Institution of Chemical Engineers accredited the degree in Chemical Engineering (Technology) for corporate membership of the Institution.

The 25th International Apprentice Competitions were held in Cork Regional Technical College from 2 - 17 September 1979. The Competitions in thirty four craft skills were held mainly at the Bishopstown Campus and fifteen countries competed from Europe, Asia, and America. The intense preparation for the competitions took more than a year and required the preparation of technical sites to a very high specification. There were over six hundred competitors and officials on site and the quest for accommodation for these visitors in city and county hotels was a major task. Social functions were well prepared for the guests and involved many cultural activities and visits to beauty spots in the region. There was a high level of satisfaction with the presentation of Irish cultural activities. The Competitions were opened by the Minister for Education Mr John Wilson TD and awards at the closing ceremony were presented by the Minister for Labour Mr Gene Fitzgerald. The Competitions were visited by the President of Ireland Dr Patrick Hillary. The events were deemed a major international success by visitors and the Department of Education, and Ireland was third in the medals’ table. The event enhanced the international reputation of Ireland as a centre for the highest level of technical preparation and achievement.

The College became a self-governing entity on 1 January 1993, having previously been an educational institution under the control of the City of Cork Vocational Education Committee. The Regional Technical Colleges Act, 1992 also provided for two other educational establishments under the control of the VEC to be established as schools of the Regional Technical College, namely the Cork School of Music and the Crawford College of Art and Design.
In the period 1993 to 2003 there was a large increase in courses and student numbers at all levels in the Institute. This was due to an increase in demand for skilled graduates to take up employment in a rapidly expanding high technology economy. There was a major refurbishment of workshops and laboratories during this period, which resulted in a much improved quality of provision to students of the Institute.

On 18 December 1997 the College was redesignated “Cork Institute of Technology” by Mr Micheál Martin TD, Minister for Education and Science.

In 1998 CIT was reviewed by an international review group and as a result of their recommendations the Government empowered the Institute in 1999 to award its own Diplomas and Certificates consequent on a procedure agreed with the National Council for Educational Awards. This was the first step in the delegation of authority to make its own educational awards to Cork Institute of Technology.

In October 2004, the National Maritime College of Ireland (NMCI) in Ringaskiddy, Co Cork accepted its first cohort of students. The Department of Nautical Studies situated at the Bishopstown Campus of CIT transferred to the Ringaskiddy facility. The NMCI is a constituent college of CIT in a partnership with the Irish Naval Service and Focus Education Ltd. The College caters for the education and training needs of the merchant navy and the non-military training requirements of the Naval Service, and provides a broad range of training services for the maritime industry. Focus Education Ltd is the private partner with responsibility for facilities management at the College.

In June 2005, the Higher Education and Training Awards Council (HETAC) delegated full award authority to the Institute for all its Taught Programmes up to and including Level 9 (Taught Masters) of the National Qualifications Authority of Ireland (NQAI).

HETAC delegated full award authority to the Institute to make awards at Level 9 (Research Masters) in various Engineering and Science disciplines in June 2005.

On 19 September 2005, HETAC delegated awarding authority to CIT to award its own PhD degrees thus completing the Levels 8, 9, and 10 awarding authority. The delegation was done with the agreement of the National Qualifications Authority of Ireland (NQAI) and applied to fields of learning where the Institute has been accredited to maintain a research register. CIT now has degree awarding powers that are comparable to universities in Ireland. Having awarding authority up to PhD level will contribute to the ongoing development of leading-edge research in Science and Engineering in CIT.

A high quality and award winning set of buildings, the Student Centre, the Administration Building and the Tourism and Hospitality Building surrounding a courtyard was completed and occupied in the period 2005-2007. They added much to the image and facilities of CIT.

The Rubicon Centre was built on a 2 hectare site which was purchased in 2002. Since opening its doors in January 2006, the Rubicon Centre has quickly positioned itself as a catalyst, assisting entrepreneurs to take their projects to the next stage. The Rubicon Centre’s role as an incubator is to assist the formation and growth of early stage, knowledge-intensive businesses, by providing physical space, in-house management support, access to advice, and support from Institute resources. The Centre aims to stimulate an environment of creativity and innovation with a continual focus of nurturing the growth of knowledge based business and commercial research in the South West Region.

The Minister for Education and Science signed an Order to commence the Institutes of Technology Act 2006 with effect from 1 February 2007. The new legislation brings the country’s fourteen Institutes of Technology, including the State’s largest third-level institute, the Dublin Institute of Technology, under the remit of the Higher Education Authority (HEA) for the first time. Until then, the HEA had only funding responsibility for the seven universities and certain smaller designated institutions.

The commencement of this legislation marked a historic milestone for the higher education system in Ireland. It was another major step in the development of the Institutes of Technology as hugely significant providers of higher learning opportunities from sub-degree right through to doctoral level.

The Cork School of Music was first established in 1878 in the Grand Parade, Cork and is the oldest School of Music in these islands. It had a temporary home in George’s Quay after the second World War and then moved to a new home in Union Quay in 1956. The Hardiman Report gave scope for a review of music education in CIT. After much support from the external stakeholders, institutions, and citizens of Cork and the Department of Education and Science, a beautiful building with high quality facilities was constructed under a Public Private Partnership. The Official hand over to CIT of the new Cork School of Music facility by the Public Private Partner, Hochtief took place in July 2007.
Since 2007, CIT has pursued a broad strategic project aimed at improving the Institute's online services and presence. The initial part of this project was a redesign of the Institute's public facing website www.cit.ie which has been completed in phases. The policy in relation to the main website is that it is primarily for individuals external to CIT. Therefore, for the most part, information which is relevant only to an internal audience does not appear on the main website. To provide online services for those inside CIT two further projects were developed and were aimed at providing dedicated online service and communication portals for the Institute's staff and students. Phase 1 of the staff portal project (gateway.cit.ie) was completed in September 2010 and the student portal (www.mycit.com) was put in place in September 2009 which was deployed in conjunction with the student email system.

A substantial area of land (14.175 hectares) was purchased by the Institute in the 1990s. This facilitated the development of sports facilities which included eight playing pitches, a refurbished running track and gymnasium. A new Sports Stadium was opened by the Minister for Education and Science, Mr Batt O’Keeffe TD on 26 May 2008.

The Blackrock Castle Observatory is a collaboration between Cork City Council, Cork Institute of Technology, and a private benefactor. It was opened to the public in November 2007 as an international award-winning Science Centre, Observatory, and riverside restaurant.

The original tower was built in 1582, rebuilt in 1733 and built in its present form in 1829. It was renovated in the 1960s and again acquired by Cork Corporation in 2001. The Castle is important in promoting Science and the significance of CIT in the educational community and society.

On 16 October 2009, the Minister for Education and Skills, Mr Batt O’Keeffe TD, gave approval to CIT to purchase a site and building adjacent to the Bishopstown Campus from US Electronics firm Tyco-Sensormatic to expand its campus. The acquisition of the 7.4 acre site and building allowed CIT to accommodate all apprentice activity on its Bishopstown Campus. CIT contributed some funding from its own resources with the majority of the acquisition funded from the Capital Budget for third-level institutions. The Minister was present in the Institute to sign the Tyco Contract on 16 October 2009 with Dr Brendan J. Murphy, President, CIT, and Mr Donal Sullivan, Managing Director, Tyco-Sensormatic Electronics also in attendance.

On 17 January 2010, CIT formally took possession of the new NIMBUS Centre for Embedded Systems Research. Funded through the HEA Programme for Research in Third-Level Institutions (PRTLI) in 2007, NIMBUS is the first building nationally to be completed in the 4th cycle of PRTLI funding and reflected very successful collaboration and project management by the CIT Development Office, the architects, building contractors, and the team of researchers for whom the building was designed. In a time of financial constraint, it also reflected well on the team that the project was completed on time and within budget.

Beginning in 2005, CIT completed the transition to a module-based system of curriculum delivery by 2009. It is common that modularisation is implemented as part of wider reforms and often associated with training to specified learning objectives (frequently competence-based); participative learning; individualised training routes; and credit accumulation and transfer. This has been the case with the Modularisation project at CIT. As well as introducing a module-based system, CIT also introduced an academic year consisting of two semesters. The new system was implemented for incoming first year students in September 2007 and was extended to all years of all taught undergraduate and postgraduate programmes in September 2008. The first cohort of graduates who completed their entire honours degree programme under the new system were conferred in October 2011.

The CIT Wandesford Quay Art Gallery situated near the CIT Crawford College of Art & Design was opened on 18 June 2010.

In recent years, CIT has signed Agreements with Universities and Institutions both nationally and world-wide to collaborate on academic programmes and research. The Institute has developed especially strong links with University College, Cork, University of Applied Sciences, Darmstadt, Germany, and the University of Pune, India.
Mission and Values of Cork Institute of Technology

All the activities of CIT are governed by its mission statement. The mission statement encapsulates and reflects the Institute's core values.

Our Mission

We are proud of our distinct mission and role in the provision of higher education for the region and beyond. Our mission is:

To provide student-centred career-focused education and research for the personal, professional and intellectual development of the student and for the benefit of the broader society in the region and beyond.

Our Commitments

The Institute is committed to its role within the region and nationally. As we pursue our mission across our full range of activities, we are focused on fulfilling the following commitments which encapsulate the Institute's priorities, ethos and values …

• CIT is a student-centred institution
• CIT delivers career-focused education and research
• CIT provides inclusive access to higher education
• CIT plays a regional, national and international role

Our Vision

As we look towards the future, we have an ambitious and challenging vision for the strategic development of CIT which is that:

CIT will be an internationally recognised centre of excellence in the provision of career-focused education which produces effective, ethical professionals capable of entrepreneurship, innovation and creativity.

Achieving our Goals

Our strategic goals are aligned with broader national goals including those outlined in the National Strategy for Higher Education to 2030.

The Strategic Management Framework

The Institute has adopted an agile and adaptive approach to strategic management and strategic planning.

Extract taken from the Institute’s Strategic Plan 2012 – 2016.
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Cork Institute of Technology

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1. Introduction

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1.1 Chairman’s Statement

I am delighted to present this annual report of the Cork Institute of Technology for 2013/2014. CIT continues towards its mission of providing the best student-centred education in the country for the benefit of the student and of society as a whole. The Institute continues to listen to the needs of the community it serves and adjusts its offerings to meet those needs on a continuous basis. This is my third year in this role and it has been an honour and privilege to work with my fellow governors to serve this great institution. It has been important for me to visit all campuses and meet more members of the team that make CIT truly excellent.

The completion and opening of the Centre for Research in Advanced Therapeutic Engineering (CREATE) was one of the highlights of the year for me as it represents the future in leading edge innovation and research. I also had the great honour of attending many award ceremonies during the year where CIT students are recognised far and wide for their excellent and innovative work. My fellow governors and I are very proud of the students’ achievements and how they represent CIT at events around the world. Congratulations to them all and their families. The journey to excellence must have milestones and measures if we are to be confident that we are on the right path. I am very pleased to see that the Institute has developed and agreed its mission-based compact with the Higher Education Authority around the 7 identified priorities and indeed an additional priority in the CIT strategic plan. This alignment is very significant.

As an engineer myself, I can appreciate and have leveraged the great talent and research that happens seamlessly at CIT in all fields of science and engineering. However, the focus on arts, culture, music, and sport at CIT is very impressive. I think of Culture Night and the production of the Marriage of Figaro as two great examples of this focus. In sport, there was great success in Ladies volleyball, camogie, soccer, rugby, and in hurling. I must also mention the Students’ Union RAG Week and the significant sum of money it raised for charity.

Enterprise Ireland in partnership with the institutes of technology has established a nationwide network of 12 Technology Gateways which:

- Deliver technology solutions for Irish industry close to their market needs.
- Are open access points for industry of all sizes.
- Act as local access points to the wider resources in the Irish research infrastructure.
- Have a proven track record of delivering for industry.
- Completed more than 800 industrial projects since 2013.
- The total value of these projects is in excess of €9 million with 46% of the total directly coming from industry.

It is great to see CIT host two of these:

- CAPPA – innovation through light
- TEC – Embedded Systems

The journey to Technological University continues, and in June 2014 Cork Institute of Technology (CIT) and the Institute of Technology, Tralee (IT Tralee) submitted a detailed plan to merge and thus establish the Munster Technological University. This plan will be evaluated by a panel of international higher education experts and we wait in confidence for a positive outcome.

In conclusion, I would like to thank the members of the Governing Body, the President, Dr Brendan Murphy, Senior Management and Staff for their dedication and hard work through the year. It continues to be a great honour for me to work with you all in helping CIT in its evolving mission.

Bob Savage
Chairman
1.2 President’s Statement

This is my tenth year in office and the following is my President’s Statement which highlights some of the achievements of CIT in 2013/14:

A. Buildings and Estates

The construction of the PRTLI-funded Centre for Research in Advanced Therapeutic Engineering (CREATE) was completed and the official handover to the Institute took place in October. Mr Seán Sherlock TD, Minister for Research & Innovation, performed the formalities at the official opening of the building on 6 June.

B. Academic Matters

The Conferring of Degrees and Other Awards for the Faculty of Business & Humanities took place on 18 October and 1,212 graduands obtained their parchments.

The Faculty of Engineering & Science and the CIT Crawford College of Art & Design Conferring of Degrees and Other Awards took place on 21 October and 1,214 graduands obtained their parchments. The following two joint awards were conferred on the day:

- Bachelor of Science (Honours) in Biomedical Science (CIT/UCC)
- Bachelor of Arts (Honours) in Multimedia (CIT/Hochschule Darmstadt -University of Applied Sciences)

The Conferring of Degrees and Other Awards Ceremony for the CIT Cork School of Music and the Cork Centre for Architectural Education took place on 24 October and 95 graduates received their parchments. Over the 3 days of Conferring Ceremonies, a total of 24 postgraduate awards in research were presented with the first doctorate being awarded to a student registered on a mathematics programme.

Spring Conferring of Degrees and Other Awards took place in the NMCI on 13 February and 108 graduands obtained their parchments which included one Master of Engineering and five doctorate awards.

In a new EU-sponsored ranking system (U-Multirank) for higher education published on 14 May, the Institute became the only Irish higher education Institute to achieve an “A” for co-publication of research with industry partners. Overall, the Institute finished in the top 10% of participants, receiving a total of 11 “A” grades.

The Summer Conferring of Degrees and Other Awards took place at the NMCI on 19 June and 64 graduands obtained their parchments which included nine Master of Arts and two doctorate awards.

C. Student Achievements and Awards

CIT CSM Masters student, Alex Petcu-Colan received the award of Irish Freemasons’ Young Musician of the Year 2013 and Bachelor of Music (Honours) student, Denise Crowley, received the Brennan Prize for being the most ‘Promising Musician’ in the 2013 Competition at the Grand Lodge of Freemasons of Ireland competitions on 12 October.

Mechanical Engineering graduate, John Roberts, was awarded First Place at the 2014 Innovact European Student Innovation Campus Finals on 2 April.

First Place Award and First Prize of a 3D Rapid Prototype Printer was won by student Shane Fogarty for his project “Medication Capsule Thermoforming Process Improvement and Electrostatic Analysis” at the Speak Out for Engineering Project Exhibition Finals on 3 April.
CIT CSM trombone student, Clara Daly-Donnellan was awarded the €10,000 RDS Music Bursary on 29 April.

Mechanical Engineering students achieved the following outstanding results at the 2014 Engineers Ireland Innovative Student Finals in Dublin on 6 June:

(i) James King - First Place and Engineers Ireland Innovative Student Engineer of the Year 2014 (Level 8)
(ii) Brian Hand - Runner-up finalist, Engineers Ireland Innovative Student Engineer of the Year 2014 (Level 8)
(iii) David Coleman - Runner-up Finalist, Engineers Ireland Innovative Student Engineer of the Year 2014 (Level 7)
(iv) Patrick Walsh, Shane O’Gorman, Mark O’Flynn - Runner-up Finalist, Engineers Ireland Innovative Student Engineer of the Year 2014 (Level 7)

Diana Dodog, a graduate of the Department of Tourism & Hospitality was crowned with the prestigious title of “Masterchef Ireland” on 22 June.

D. Strategic Matters

During the course of 2013/14 the Institute developed and agreed its mission-based compact with the Higher Education Authority (HEA) as part of the national strategic dialogue process initiated by the HEA.

The HEA has identified 7 priorities for the national higher education system and each institution has been asked to identify objectives and targets with respect to each of the priorities. CIT has aligned the 7 national priorities with the 8 priorities identified in the CIT Strategic Plan 2012 to 2016. By aligning the priorities, objectives and targets, the Institute will be able to deliver against its own strategic plan and the compact with the HEA under the Institute’s strategic management framework.

E. Staff

- Dr Guillaume Huyet was appointed to the post of Acting Head of Department of Applied Physics & Instrumentation on 1 September. He was also appointed as Visiting Professor at The National Research University of Information Technologies, Mechanics and Optics (ITMO), St Petersburg, Russia and co-chair of the Laser System Laboratory.
- Dr Cian O’Neill was appointed Head of Department of Sport, Leisure & Childhood Studies on 2 September.
- Mr Adrian Gregan, Head of Department of Tourism & Hospitality was elected as the Irish National Representative for the European Association of Hotel and Tourism Schools (AEHT).
- Mr Conor Mowlds took up duty as Head of the National Maritime College of Ireland on 2 January.
- Mr Michael Hourihan was appointed Head of Centre of Craft Studies with effect from 2 January.
- Mr Cormac Gebruers was appointed Head of the Halpin Centre, NMCI on 2 January.
- Dr Noel Barry, Head of Academic Studies was re-assigned to the School of Graduate Studies with effect from 2 January.
- Mr Vivion Gough was appointed to the post of Head of Department of Maritime Studies, NMCI on 7 February.
- Dr Margaret Linehan was elected Chair of the Irish Academy of Management (IAM) in April.
- Ms Orla Flynn was appointed Vice President for External Affairs on 12 May.
- Mr Gerard O’Donovan was appointed to the post of Head of Faculty of Business & Humanities on 4 July.
- Mr Michael Delaney, Vice President for Development retired on 31 August.
F. Arts and Culture

The Institute supported the eighth annual Culture Night which took place on 20 September by hosting various events at the CIT CCAD, CIT Wandesford Quay Gallery, CIT CSM, CIT Architecture Factory, CIT BCO, and the Cork Centre for Architectural Education (CCAE).

The presentation of the Suicide Aware Amber Flag Award to the Institute by Ms Kathleen Lynch, TD, Minister of State for Disability, Equality, and Mental Health, and Ms Patricia Behan, Suicide Aware, took place on 11 November. The Institute was the first Institute of Technology to be awarded the Suicide Aware Amber Flag for the promotion of positive mental health.

The CIT CSM produced the opera by Mozart “The Marriage of Figaro” from 10 to 12 January at the Curtis Auditorium.

The Institute in conjunction with Wissenschaft im Dialog hosted the European Student Parliament at the Institute and Cork City Hall from 15 to 17 January.

The Rt Hon Lord Mayor of Cork, Cllr Catherine Clancy, opened a collaborative exhibition of artwork ‘Legacy’ by the staff, graduates and current students of CIT CCAD, National College of Art & Design, Research Institute of Art & Design at the University of Ulster, the Shanghai University of Fine Arts, and Tsinghua University Academy of Art & Design, Beijing, China at Cork City Hall on 28 January.

CIT Students’ Union Rag Week 2014 took place at the Institute from 10 to 14 February; a total of €10,500 was raised for worthwhile charities.

The Brazilian Ambassador to Ireland, H.E. Mr Afonso José Sena Cardoso visited the Institute on 21 March together with the Brazilian Honorary Consul for Cork, Mr Brendan McAuliffe. The Ambassador met with the Institute’s Brazilian students and staff.

A presentation of a model of the famous salvage tug TURMOIL which was stationed at Cobh during the 1950s was presented to the NMCI by Mr Jerry Savage, father of CIT Governing Body’s Chairman, Mr Bob Savage on 27 March.

The Institute’s International Student Society and the Music Society were announced as winners at the BICS National Societies Awards hosted by the Queen’s University of Belfast on 10 April.

The Russian Ambassador, H.E. Mr Maxim Peshkov, visited the Institute on 25 April and met with the Institute’s Russian students.

G. Sport

The Institute’s Ladies Volleyball Team won the Intervarsities Plate on 1 December.

The Institute’s Senior Camogie Team won the 2014 Higher Education Purcell Shield on 11 February.

The Institute’s Intermediate Hurlers won the 2014 Munster Intermediate Hurling Championship on 21 February.

The Institute’s Intermediate Hurling Team captured the All Ireland Intermediate title on 13 March.

The Institute’s Ladies Rugby Team retained its All-Ireland title on 26 March.

The Institute’s Ladies Soccer Team won the WSCAI Intervarsities Shield on 27 March.

The Official Launch of the Department of Sport, Leisure & Childhood Studies “Project Spraoi: A strategy to improve nutrition and physical activity in Irish primary school children” was conducted by Mr Jimmy Deenihan TD, Minister for Arts, Heritage and the Gaeltacht on 2 May.
H. Innovation and Research

The Minister for Research & Innovation, Mr Seán Sherlock TD, launched a nationwide network of Technology Gateways, capable of delivering technology-based solutions for companies in Ireland. CIT hosted two such technology Gateways, CAPPA and TEC, both providing different technology services to businesses in the Cork Region.

On 14 November, the Institute’s Architecture Factory was crowned with the Grand Prix for Best Contribution to Design in Ireland 2013.

The first prize and title of CIT Entrepreneur of the Year went to “DairySolve”, an agricultural innovation created by students John Keane, Mechanical Engineering, Hayden Doyle, Marketing and Seán Dowling, Business.

A significant capital award from Science Foundation Ireland to Department of Biological Sciences staff, Dr Brigid Lucey and Dr Aidan Coffey, was used to purchase a MALDI-TOF (Matrix-assisted laser desorption/ionization time-of-flight) Mass Spectrometer. The new instrument was set up at the collaborating Bacteriology Laboratory at Cork University Hospital (CUH), thus underpinning the long-running productive research collaboration between CIT and CUH.

The NMCI was awarded Ireland's largest ever Maritime Training Contract from Chevron Shipping on 6 May.

On 27 May, Mr Seán Sherlock TD, Minister for Research & Innovation attended the signing by CIT and the Tyndall National Institute of a new Memorandum of Understanding to renew and expand their existing partnership.

At the launch of the CREATE Building on 6 June, Mr Seán Sherlock TD, Minister for Research & Innovation, announced the discovery of a new bacterial species by members of the CREATE Team.

I. National Strategy for Higher Education

As indicated above, the HEA has commenced the strategic dialogue process set out in the National Strategy. This process is aimed at defining and quantifying the contribution and performance of the higher education system nationally.

On 6th June 2014 CIT and IT Tralee submitted a detailed plan to merge and establish the Munster Technological University. This plan, which met the requirements set out in Stage 2 of the process for Technological University designation, will be evaluated by a panel of international higher education experts under Stage 3 of the process.

We await the outcome of this evaluation and are confident that our proposal to establish the MTU will be found to be credible and realisable.

Dr Brendan J. Murphy
President
1.3 Equality Statement

CIT is an equal opportunities employer. It is committed to the ongoing development of policies and procedures that do not discriminate on the grounds of gender, marital status, age, disability, race, colour, religious belief, ethnic origin or sexual orientation.

It will always work towards the elimination of unfair practices and promote and develop an ethos of equality within the Institute.
1.4 Irish Language & Culture

Under the terms of the Regional Technical Colleges Act (1992) and the Qualifications Act (1999), the Institute is obliged to have regard to the preservation, promotion and use of the Irish language and to the preservation and development of the national culture. There are particular responsibilities on CIT because included in its region are Gaeltacht areas. There is also a significant amount of second-level education through Irish in the region to which the Institute wishes to be responsive. In addition, the sections of the Official Languages Act which were commenced by order of the Minister for Rural, Community, and Gaeltacht Affairs, impose new obligations on the Institute.
1.5 About Cork Institute of Technology and its Organisation Chart

CIT operates over four main sites located both in the city and county of Cork:

- Bishopstown Campus situated in the western suburbs of Cork City
- CIT Crawford College of Art & Design (CIT CCAD) situated in Cork City
- CIT Cork School of Music (CIT CSM) situated in Cork City
- National Maritime College of Ireland (NMCI) situated in Ringaskiddy, Co Cork

**Bishopstown Campus**

The main Campus of 35 hectares is situated in Bishopstown and includes the Faculty of Engineering & Science, Faculty of Business & Humanities, the main CIT Library, Sports Facilities and the offices of the President, the Registrar & Vice President for Academic Affairs, the Vice President for External Affairs, and the Vice President for Finance & Administration.

The Rubicon Centre and the NIMBUS Centre are also located on this campus.

**CIT Crawford College of Art & Design (CIT CCAD)**

CIT CCAD is a listed building dating from the early 1900s located in Sharman Crawford Street and includes the departments of Fine Art & Ceramic Design, Art & Design Education, and Art Therapy & Continuing Visual Education. The Department of Media Communications situated on the Bishopstown Campus is also part of the CIT CCAD.

**CIT Cork School of Music (CIT CSM)**

The CIT CSM traces its history back to 1878 and it is now located in a state of the art facility since September 2007. It includes the departments of Keyboard Studies, String Studies, Wind, Percussion, Voice & Drama Studies and Musicianship & Academic Studies.

**National Maritime College of Ireland (NMCI)**

This state-of-the-art College operating from 2004 is located in Ringaskiddy, Co Cork and provides training and education for the Merchant Marine and the non-military needs of the Irish Naval Service (INS). NMCI Services is the commercial arm of the College.
1.5 Institute’s Organisation Chart
1.5 Institute’s Organisation Chart (2 of 2)
1.6 Special Units and Centres operating within the Institute

The following Centres and Unit operate under the auspices of the Vice President for External Affairs

1. **Blackrock Castle Observatory (BCO)**

Through BCO, CIT is changing positively attitudes towards science, engineering and technology in Ireland and aims to be recognised and respected as a centre of excellence in scientific research, education and outreach. BCO provides the people of Cork and the wider region with a centre of excellence in science that fosters interest in science, engineering and technology through the medium of astronomy. BCO has an annual throughput of 25,000 visitors.

2. **NIMBUS Centre for Research in Embedded Networked Systems**

The NIMBUS Research Centre is a purpose built state of the art 1,800m² research building which forms the backbone of the Institute’s Strategic Research Cluster in Embedded Networked Systems. It is also Ireland’s only research centre devoted to this field. NIMBUS incorporates the Adaptive Wireless Systems Group, the Smart Systems Integration Group and the Technologies for Embedded Computing Centre (TEC). The TEC Centre acts as the primary industry interface with the NIMBUS Research Centre and provides a “one-stop-shop” for innovation in embedded systems for industry in the region. The NIMBUS Research Centre provides industry with the opportunity to utilise the industry laboratories and access support programmes and is home to over 80 staff, researchers and postgraduate students.

NIMBUS researchers have primary responsibility for the operation and exploitation of the National Sustainable Building Energy Testbed which was completed in 2013 at the Bishopstown Campus. The testbed, which is unique in Ireland, is part-funded in collaboration with United Technologies Research Centre, an American multi-national corporation.

NIMBUS also operates the Water Systems and Services Innovation facility, a collaboration with the Cork City and County Councils, and they also play a key role in the Mallow Systems Innovation Centre.

3. **Rubicon Centre**

The Rubicon Centre is CIT’s on-campus Incubation Centre. It is home to 50 knowledge based start-up companies at different stages of development. Some clients are at concept stage, others are completing their first customer orders, and many are already trading internationally. Since opening its doors in January 2006, the Rubicon Centre has quickly positioned itself as a catalyst for innovation and entrepreneurship in Cork. An extension to the building became operational in June 2010, increasing total incubation space to 2,100m². The Rubicon Centre’s role as an incubator is to assist the formation and growth of early stage, knowledge intensive businesses, by providing physical space, in-house management support, and access to advice and support from Institute resources.

The Centre aims to stimulate an environment of creativity and innovation with a continual focus of nurturing the growth of knowledge-based business and commercial research in the South West Region.

4. **Strategic Innovation Projects Unit**

The Strategic Innovation Projects Unit was established to manage the CIT-led Strategic Innovation Fund (SIF) Projects Education in Employment (Cycle 1) and Roadmap for Employment-Academic Partnerships (Cycle 2). It involves a total of 9 Institutes of Technology and 2 Universities as collaborating partners. The Unit also has responsibility for CIT’s involvement in a number of related SIF projects including the WIT-led Knowledge Transfer in the Curriculum, IoTI-led Flexible Learning Project, and the UL-led IDEAS project. In addition to managing the outcomes and financial aspects of the projects, the Unit is also responsible for dissemination of the project outcomes and for mainstreaming the partnership and engagement activities.

The following Centres operate under the auspices of the Head of the Faculty of Engineering & Science

1. **BIO-EXPLORE Research Centre**

The BIO-EXPLORE Research Centre is a multidisciplinary centre of researchers involving members from Biological Sciences, Chemistry, Applied Physics and Instrumentation, and Biomedical Engineering. The Centre for Research in Advanced Therapeutic Engineering (CREATE) will provide a multidisciplinary environment with ready access to industry and visiting researchers.
BIO-EXPLORE incorporates:

- **MEDIC –** the Medical Engineering Design and Innovation Centre. MEDIC is developing new instruments and approaches that will bring a number of medical product concepts to pre-commercialisation stage each year.

- MEDIC has two top-level objectives: to enhance the Biomedical Engineering & Science Applied Research capability of CIT, and develop medical technologies and products that have commercial potential. MEDIC will develop these devices and technologies to a point where they are transferable to a commercialisation entity (e.g. an existing company via licensing agreement OR a spin off campus company).

- MEDIC will focus on three research strands: SMART surgical devices (integration of microelectronics into medical devices such as orthopaedic implants); Assistive Rehabilitation (use of gait analysis to develop products and technologies to support the rehabilitation of stroke victims and/or improve the physical development for cerebral palsy children); and Therapeutic and Regenerative Medicine – focusing on orthopaedic bone grafts, neuro regenerative and antibacterial composites;

- Microbiology/virology research – concentrating on screening, isolation and testing of novel antimicrobial compounds which pose a potential threat to human health;

- Bioinformatics Research – concentrating on supporting the extraction of information from biological data banks;

- Food Research – concentrating on the control of fungal and bacterial contamination in dairy and meat products, extending shelf-life of fresh produce and the development of prebiotics;

- Mass Spectrometry and Bio-Actives Research – concentrating on the isolation, characterisation and use of bio-active compounds (including herbs) in a wide range of applications. The technique of mass spectrometry, in which the researchers are world-leaders, is used for much of the investigative research. CIT researchers in this field are at the forefront of food-borne biotoxin research in Europe.

2. **The Centre for Advanced Manufacturing and Management Systems (CAMMS)**

CAMMS is attached to the School of Mechanical, Electrical and Process Engineering. The Centre uses the design, build, test and validate expertise of these Departments in solving problems for industry and in delivering up to date training and education. Certifications available include City & Guilds, American Society for Quality, and the Society of Manufacturing Engineers. The Centre is an Associate Member of the International Institution for Production Engineering (CIRP) and a recognised Training Provider for Continuing Professional Development (CPD) to Engineers Ireland. Tailored courses can be delivered at place of work or at CIT.

3. **Cork Centre for Architectural Education (CCAE)**

Established in 2006, CCAE is a joint venture between CIT and UCC. Supported by Cork City Council and the architectural profession within the region, CCAE represents a unique undertaking and a natural development of cross-institutional collaboration and partnership.

It offers jointly awarded undergraduate and postgraduate degrees (taught and research) in Architecture.

4. **Clean Technology Centre (CTC)**

The CTC, based at the Bishopstown Campus, was established in 1992 as a not-for-profit organisation, focusing on preventive approaches to environmental protection. How the CTC came into being and how it was supported is unique. In every country where a similar centre of excellence exists, they have been solely established by or in cooperation with local or national government. However, the creation of the CTC was primarily the result of the foresight of CIT and the demonstration of corporate social responsibility by industry.

The CTC is an independent body, whose mission is to advise and assist industry, government and society alike towards a more sustainable pattern of consumption and production. The integrity and reputation of CTC ensures its unbiased assessment of environmental issues. Its goal is to move consumption and production patterns towards more preventive approaches, through Cleaner Production and the use of Cleaner Technologies. Cleaner production brings economic, social, health, safety and environmental benefits. This has since been expanded to “sustainable production” which includes aspects such as corporate social responsibility.

Since its inception, CTC has become recognised as a centre of excellence in the field of environmental management and one of the leading Irish and European proponents of cleaner production and preventive approaches to environment protection. It has remained active in environmental research and consultancy, providing valuable advice and assistance to a wide range of clients, national and international. These include individual companies, sectoral groups, and umbrella industrial organisation. CTC has an industrial portfolio of over 250 companies. Other clients include local authorities, national agencies, Government Departments as well as several Directorates General of the European Commission. CTC has carried out over 120 environmental research projects with over 100 partners from more than 30 countries.
5. Centre for Advanced Photonics & Process Analysis (CAPPA)

CAPPA conducts both applied and fundamental research on photonics for applications in areas as diverse as telecommunications, medical devices, food, and pharmaceutical manufacturing. Photonics is the generation and manipulation of light, and is a key enabling technology for a wide range of topics. The CAPPA Centre includes over 20 researchers and postgraduate students, and is housed in laboratories both on the Bishopstown Campus (moving to the new CREATE research building), and in the Tyndall National Institute as part of the CIT@Tyndall collaboration. Since 2008, it has been awarded over €10M in funding, from both exchequer and non-exchequer sources, including SFI, Enterprise Ireland, HEA, EU FP7 and industry, and has published over 60 papers in peer-reviewed journals. The EU-funded CAPPA Technology Gateway, a follow-on to the previous CAPPA Applied Research Enhancement Centre, has a specific remit to focus on industry engagement and collaborative applied research. CAPPA has had successful interactions with over 30 national and European companies, ranging from short-term consultancy for FMEA and Process Excursions to multi-year industrial and academic collaborative projects.

CAPPA is a partner in the recently funded Irish Photonic Integration Research Centre (I-PIC). This is one of seven Research Centres funded by SFI in 2013 in Ireland’s largest ever state/industry research investment, totalling €300m over 6 years. CIT was the only Institute of Technology to be funded in the call. Within the €23m I-PIC centre, CAPPA will work on projects with 5 regional companies, both Multi-National Companies (MNCs) and Small and Medium Enterprises (SMEs), as well as on core research relevant to all members of the centre.

The following Centre operates under the auspices of the Head of the Faculty of Business & Humanities

1. Hincks Centre for Entrepreneurship Excellence

CIT announced the creation of its new Centre for Entrepreneurship Excellence, the Hincks Centre, on 29 January 2013. In creating Ireland’s first Centre of Entrepreneurship Excellence, CIT is extending its long-standing, strong, commitment to supporting the entrepreneurship drive at regional and national levels. CIT intends to address a gap in Ireland’s current ability to train and provide support to all stakeholder groups who support and nurture entrepreneurship. The Hincks Centre will also address some key gaps in current research on entrepreneurship in the Irish context and will utilise these outputs to inform national policy and strategy.

The Hincks Centre will be focused on three pillars of activity: training entrepreneurship support staff and entrepreneurs; research on entrepreneurship in Ireland with a view to informing national policy and education and accreditation of entrepreneurial educators. The combination of these strands of entrepreneurial focus will enable the future expansion of CIT’s activity and will deliver even more added value to CIT’s stakeholders.

Immediate priorities for the Centre include a ground-breaking new programme for upskilling staff in financial institutions to optimally support entrepreneurs across both start-ups and existing SMEs. The Hincks Centre will provide a novel programme dedicated to training staff in business incubators and enterprise support agencies. New research programmes will characterise the success and failure factors of start-ups, in the Irish context, in key areas such as sales and funding strategy. A “Train the Trainer” programme will be provided for lecturers and teachers of entrepreneurship. In addition to these new initiatives and existing activities, the Centre also plans to address the key emerging areas of Intrapreneurship and Spin-ins, Social Entrepreneurship, and Entrepreneurship at second-level.
The following Unit and Centre operates under the auspices of the National Maritime College of Ireland

1. NMCI Commercial Services (NMCIS)

NMCIS is the Commercial division of the NMCI. Its goal is to achieve and deliver excellent quality service to its existing and future customer base. The services' primary function is to promote and support all commercial activities of the College. NMCIS has produced an annual commercial schedule of professional maritime short courses, listing all the short courses scheduled for the year. It also provides specialised group courses for companies in the industry. All its clients will be trained by quality professional mariners to the highest standards.

GAC Training & Service Solutions Limited (GTSS)

- GTSS, launched on 11 February 2010, is a joint venture company between GTSS and the NMCI. It provides cost saving and innovative training solutions for the Maritime, Transport and Commodity sectors. GTSS combines GAC's network, commercial contacts, expertise, and knowledge in global shipping, logistics and the marine industry with the superb facilities of NMCI. This partnership is focused on delivering a complete portfolio of training courses for both seafarers and shore-based shipping and commodity operations personnel. GTSS operates under the College's Commercial Division, NMCIS and is being coordinated on the ground by the GTSS Marketing Executive under the direction of the NMCI Services Manager in partnership with the GAC Vice President of Solutions. It has its own Board of Directors with key staff from both shareholders holding seats on the Board. The NMCIS Manager holds the position of Managing Director/Company Secretary.

SEFtec NMCI Offshore Limited (SNO)

- SNO is a joint venture company between the NMCI and SEFtec Global Training Ireland Limited (SGT). Its primary role is as a vehicle to combine the offshore training expertise of SGT with the world class maritime training facilities at the NMCI in pursuit of OPITO (Offshore Petroleum Industry Training Organisation) standards and accreditation for courses for the offshore industry. SNO operates under the College's commercial division, i.e. NMCI Commercial Services (NMCIS), and is managed on the ground by the Offshore Course Coordinator under the direction of the NMCIS Manager. It has its own Board of Directors with key staff from both shareholders holding seats on the Board. The NMCIS Manager holds the position of Managing Director of SNO, the CIT Finance Manager is Company Secretary.

2. Halpin Centre for Research and Innovation

On 27 May 2013, Mr Seán Sherlock TD, Minister of State for Research & Innovation, officially launched the Halpin Centre at the NMCI. This exciting new development will further enhance the international reputation of the NMCI as a centre of maritime excellence. The launch completes the internal development of the NMCI which has three pillars of activity; Maritime Education and Training, Specialised and Bespoke courses for industry delivered through NMCI Services and now, Research and Innovation activity through the Halpin Centre for Research and Innovation.

The Centre will be an important pillar of the rapidly developing iMERC Campus at Ringaskiddy and as such will facilitate the research inputs of both CIT and the Irish Naval Service to the overall research effort in maritime and sustainable energy. It has enjoyed early success in attracting significant European research funding with the Centre involved in ten EU funded projects. The Centre is also working with Irish SME’s and multinational companies to assist them in developing new products and services and has international collaborators in Canada and throughout the EU. Advice and support from partners in UCC who have long been involved in Marine Renewable Energy has helped the Halpin Centre to engage quickly and effectively with that sector to secure projects concerning future training needs and the use of simulation technology in that sector.
Special Units and Centres operating within the Institute and their relationship to the Institute’s Organisation Chart
1.7 Sports Facilities Development

Despite the expansion of the Institute in terms of student numbers from its opening in 1974, sports facilities, and in particular outdoor sports facilities were in short supply and consisted of a single GAA pitch, a rugby pitch and tarmac tennis courts in the mid-1990s.

To address this deficiency in sports facilities the Institute embarked on a decade long development which has transformed the Institute’s sporting assets from humble beginnings to its present situation where CIT’s outdoor sports facilities are the envy of the educational third-level sector throughout the country.

The initial phase of the sports development masterplan drawn up by Mr Michael Horgan of Horganlynch Consulting Engineers was the construction of a new rugby pitch located on the western side of the campus and adjacent to the GAA pitch. The construction of this pitch freed up the site of the old rugby pitch and a synthetic all-weather pitch was opened here in 2000. The success of the synthetic all-weather pitch which can accommodate hockey, soccer and GAA is evident by its constant use by students, staff, and external clubs and groups alike.

The next and most ambitious phase of the sports masterplan was the purchase for sports usage of approximately 8.91 hectares of land west of the Curragheen river on what was known as “Rock Farm”. Due to its proximity to the river the land was low-lying and liable to flooding and so, for a period of approximately three years a programme of filling took place to raise the general area by approximately two metres. On completion, the extensive network of ESB lines crossing the site was removed and this allowed the construction of six sand-based grass pitches for GAA, soccer and rugby. This brought the total number of grass playing pitches to nine when the athletics track infield is taken into consideration.

To service these pitches and to provide a state-of-the-art spectator venue, a covered seated stand was constructed in 2007 with a seated capacity of 1,150 along with six dressing rooms, referee’s room, medical room, gymnasium, and social area.

Along with the developments listed above, three pitches have full floodlighting to allow night matches and training, and a synthetic carpet tennis court has also been constructed. Indoor sports and training are accommodated in a large and well-equipped sports hall and fully equipped gym, centrally located on campus.

Minister for Enterprise, Trade and Innovation, Mr Batt O’Keeffe TD officially opened the New Stand at the Institute’s Sports Complex, Bishopstown on 4 June 2010.
In the 2010/2011 academic year, the Institute featured prominently in a number of events and numerous successes. Its excellently prepared sports grounds and facilities played host to numerous competitions throughout the year including schools matches, schools Cork County Camogie Final, Cork City Sports, GOAL Mile, the Munster Schools & Universities Cross Country Championships, WSCAI Intervarsities, Kayaking Intervarsities, Novice Boxing Intervarsities, and the All-Ireland Colleges Rugby Finals. CIT provided training facilities for a number of intercounty teams including the Cork Ladies Footballers and Camogie Teams, from under-age to Senior Level, Cork Kennedy Cup Team, Schools of Excellence in Camogie, Ladies Soccer, and GAA.

In May 2011, CIT signed a 4-year agreement with Munster Rugby which saw the Cork- based members of the professional Munster Squad and Academy headquartered at CIT’s Elite Gym on its Bishopstown Campus.

As well as catering for the competitive athlete, the Institute places a big emphasis on participation and fun and this is reflected in the growing numbers of students who take part.

In January 2012, CIT signed an agreement with the Cork County Board which saw the Cork Senior Hurling Panel headquartered at CIT’s Bishopstown Campus. They utilised the sports and ancillary services at CIT for their training and development.

CIT has a long and successful tradition of helping to produce some of Ireland’s finest sporting talent. This is a tradition it seeks to strengthen and progress by significantly supporting the Elite Student Athlete and High Performance Teams.

The 2013/14 academic season has been a very successful one for CIT. The Institute featured prominently in a broad range of sports from indoor to outdoor sports to field sports. The Institute had a number of outstanding achievements in the following:


94 Sports Scholarships were presented to male and female athletes from 15 different sports. The breakdown of the Scholarships awarded were as follows:

- 72 CIT Sports Scholarships (35 Freshers/Development and 37 Senior) for Athletics, Basketball, Camogie, Cycling, Football, Golf, Hockey, Horseracing, Hurling, Powerlifting, Rowing, Rugby, Sailing, Soccer and Tae Kwon Do.
- 14 Munster Council GAA Scholarships
- 7 CIT/Munster Rugby Scholarships
- 1 Cork Women’s F.C. Soccer Scholarship

The Sports Scholarship range in value from €500 to €1000 and provide valuable assistance to students in their quest for sporting excellence. The service benefits to the recipients included access to CIT Sports Facilities including the Elite Gym & Weights Room, Sports Education Talks & Workshops, and a Mentoring Support Network.
2. Governance

2.1 Membership of Governing Body
2.2 Governing Body Meetings
2.3 Institute Executive Board (IEB)
2.4 Institute Senior Staff
2.1 Membership of Governing Body

The composition of the Governing Body is determined by the Regional Technical Colleges Acts, 1992 and 1994. The ordinary members with the exception of the two student representatives are appointed for a period of five years.

The two student representatives are appointed for a period of one year up to 30 September.

The membership of the Governing Body from 1 September 2013 is as follows:

Mr Bob Savage, Chairman (Nominee of the Minister for Education and Skills)
Dr Brendan J. Murphy, President, CIT (Ex Officio)

Governing Body members as per Section 4 of the 1994 Act.

Six appointed under Section 4(1)(a) and (b)
Cllr Catherine Clancy (Nominee of City of Cork VEC)
Cllr James A. Corr (Nominee of City of Cork VEC)
Mr Ted Owens (Nominee of City of Cork VEC)
Mr Barra Ó Briain (Nominee of County Cork VEC)
Cllr Mary Hegarty (Nominee of County Cork VEC)
Canon G.A. Salter (Nominee of County Cork VEC)

Two appointed under Section 4(1)(c)
Dr Áine Ní Shé (Academic Staff Nominee)
Mr John O’Sullivan (Academic Staff Nominee)

One appointed under Section 4(1)(d)
Mr Eoin Deane (Non Academic Staff Nominee)

Two appointed under Section 4(1)(e)
Mr Danny O’Donovan (Nominee of Students’ Union) up to 30 September 2013
Ms Niamh Hayes (Nominee of Students’ Union) up to 30 September 2013
Mr Danny O’Donovan (Nominee of Students’ Union) up to 30 September 2014
Ms Ciara O’Connor (Nominee of Students’ Union) up to 30 September 2014

One appointed under Section 4(1)(f)
Ms Ann Piggott (Nominee of the Irish Congress of Trade Unions)

Five appointed under Section 4(1)(g)
Ms Valerie Gleeson (Nominee of the Arts Council) – deceased 23 April 2014
Ms Mary Keane (Nominee of the Association of Principals and Vice Principals of Post Primary Schools)
Mr Billy O’Neill (Nominee of Institution of Engineers of Ireland)
Mr Mark Whitaker (Nominee of Cork Chamber of Commerce)
Mr Jim Woulfe (Nominee of Irish Co-Operative Organisation Society Ltd.)
2.2 Governing Body Meetings

During the period from 1 September 2013 to 31 August 2014, the Governing Body met on eight separate occasions.

They met on the following dates:

- Thursday 26 September 2013
- Thursday 7 November 2013
- Thursday 5 December 2013
- Friday 17 January 2014 (Special meeting)
- Thursday 6 February 2014
- Thursday 1 May 2014
- Tuesday 3 June 2014 (Special meeting)
- Thursday 3 July 2014
2.3 Institute Executive Board (IEB)

The Institute Executive Board is a non-statutory committee of the Institute. The role of the Institute Executive Board is to assist the President in the management of the Institute and in formulating Institute strategy and policy for approval by the Governing Body.

The composition of the Institute Executive Board is as follows:
Dr Brendan J. Murphy, President
Ms Orla Flynn, Vice President for External Affairs
Mr Paul Gallagher, Vice President for Finance & Administration
Mr Tadhg Leane, Head of Strategic Development
Mr Michael Loftus, Head of Faculty of Engineering & Science
Dr Barry O’Connor, Registrar & Vice President for Academic Affairs
Mr Gerard O’Donovan, Head of Faculty of Business & Humanities
Dr Geoffrey Spratt, Director, CIT Cork School of Music

The Institute Executive Board meet on a monthly basis and at such other times as deemed necessary. It is chaired by the President or by the President’s nominee from within the Board. A recording secretary is present at all meetings to record agreed actions. Action lists from the meetings are circulated to the Governing Body and are available to staff on the staff intranet (Gateway).
2.4 Institute Senior Staff

The Cork School of Music, the Crawford College of Art & Design and the National Maritime College of Ireland are constituent schools of Cork Institute of Technology.

**President**
Dr Brendan J. Murphy, BA, MA, PhD, FSS, FICS, CEng, FIEI

**Institute Executive Board**
- Vice President for External Affairs and Head, CIT Crawford College of Art & Design: Ms Orla Flynn, MSc, MA, MICS, MIDI
- Vice President for Finance & Administration: Mr Paul Gallagher, MSc, FCMA
- Head of Strategic Development: Mr Tadhg Leane, BA, MSc
- Head of Faculty of Engineering & Science: Mr Michael Loftus, BE, MEngSc, MICS
- Registrar & Vice President for Academic Affairs: Dr Barry O’Connor, BE, MEngSc, PhD, BCL, CEng, MIEI
- Head of Faculty of Business & Humanities: Mr Gerard O’Donovan, BComm, MBA, MMII, MICS
- Director, CIT Cork School of Music: Dr Geoffrey Spratt, BA, PhD

**Vice President for External Affairs and Head, CIT Crawford College of Art & Design**
Ms Orla Flynn, MSc, MA, MICS, MIDI

**Vice President for Finance & Administration**
Mr Paul Gallagher, MSc, FCMA

**Head of Strategic Development**
Mr Tadhg Leane, BA, MSc

**Head of Faculty of Engineering & Science**
Mr Michael Loftus, BE, MEngSc, MICS

**Registrar & Vice President for Academic Affairs**
Dr Barry O’Connor, BE, MEngSc, PhD, BCL, CEng, MIEI

**Head of Faculty of Business & Humanities**
Mr Gerard O’Donovan, BComm, MBA, MMII, MICS

**Director, CIT Cork School of Music**
Dr Geoffrey Spratt, BA, PhD

**Head of Strategic Student Engagement and Retention Initiative**
Ms Marese Bermingham, BComm, HDipEd, HDipGC, MIGC

**Dean of Academic Quality Enhancement**
Dr Stephen Cassidy, BE, MEngSc, PhD, CEng, Eur Ing, MIEI

**Head of Online Delivery**
Mr Tim Horgan, BTech, MSc

**Head of NIMBUS Centre**
Dr Dirk Pesch, Dipl.Ing, PhD, IEEE, IEI, ACM

**Head of Research**
Dr Niall Smith, BSc, PhD

**Other Senior Positions**

**Central Services Managers**
- Finance Manager: Mr John Cogan
- Human Resources Manager: Mr Anthony Collins, BA
- Academic Administration & Student Affairs Manager: Dr Dan Collins, MEd, BA, BD, PhD
- Buildings & Estates Manager: Mr Kevin McCarthy, MSc, CEng, MIEI
- IT Manager: Mr Jonathan McCarthy, BSc, MA, PostgradDip
- Industry Liaison Manager: Ms Josette O’Mullane, BComm, BCom, ACMA
- Librarian: Mr Derry Delaney, BA, DLIS

**BISHOPSTOWN CAMPUS:**

**FACULTY OF ENGINEERING & SCIENCE**

**Head of Faculty**
Mr Michael Loftus, BE, MEngSc, MICS

**School of Building & Civil Engineering:**

- Head of School: Dr Joseph Harrington, BE, MS, PhD, CEng, FIEI, EurIng, PE
- Head of Department of Architecture: Ms Katherine Keane, BSc, MArch, ARIAI
- Head of Department of Civil, Structural & Environmental Engineering: Mr Desmond Walsh, BE, MSc, DIC, CEng, MIEI, MICE
- Head of Department of Construction: Dr Daniel Cahill, MSc, PhD, MRICS

**School of Mechanical, Electrical & Process Engineering:**

- Head of School: Mr Matt Cotterell, BE, MED, CMfgE, MIEI, AMIMechE
- Head of Department of Electrical & Electronic Engineering: Dr Joe Connell, BSc (Eng), MSc (Eng), PhD, CEng, FIEI, MIEEE
- Head of Department of Mechanical, Biomedical & Manufacturing Engineering (Acting): Dr Gerard Kelly, BE, MEngSc, PhD
- Head of Department of Process, Energy & Transport Engineering: Dr Michael J. O’Mahony, BE, MEngSc, PhD, MIEI
- Head of Centre of Craft Studies: Mr Michael Hourihan, BSc, Senior Trades, C & G

**School of Science & Informatics:**

- Head of School: Dr Hugh McGlynn, BSc, PhD, FHEA
- Head of Department of Physical Sciences: Dr Guillaume Huyet, MSc, PhD
Head of Department of Biological Sciences  Dr Brendan O’Connell, BSc (Hons), PhD
Head of Department of Computing  Mr Jim O’Dwyer, BA(Mod), HDipEd, CEng, FICS, MBCS
Head of Department of Mathematics  Dr Áine Ní Shé, BEd, MA, PhD, LRSM, LTCL

FACULTY OF BUSINESS & HUMANITIES
Head of Faculty  Mr Gerard O’Donovan, BComm, MBA, MMII, MICS

School of Business:
Head of School  Mr Gerard O’Donovan, BComm, MBA, MMII, MICS
Head of Department of Accounting & Information Systems  Ms Caroline O’Reilly, BComm, MBus
Head of Department of Management & Enterprise  Mr Brian McGrath, BComm, FCA, MMII
Head of Department of Marketing & International Business  Dr Pio Fenton, BSc, PhD
Head of Department of Organisation & Professional Development  Mr Don Crowley, BBus, GDE(B), Grad. Dip IT

School of Humanities:
Head of School  Dr Margaret Linehan, BBus, MBus, PhD
Head of Department of Applied Social Studies  Mr Jim Walsh, BA, HDipEd, BCL, LLB, MEMI
Head of Department of Sport, Leisure & Childhood Studies  Dr Cian O’Neill, BSc, PhD
Head of Department of Tourism & Hospitality  Mr Adrian Gregan, BA, MBus, Dip H&C Mgmt, FIHI, Post Grad Dip Hosp Ed

SCHOOL OF GRADUATE STUDIES
Dean of Graduate Studies  Dr Eamonn Cashell, BA(Mod), BSc, PhD, CPhys, MInstP
Head of Academic Affairs  Dr Noel Barry, BE, ME, PhD, CEng, MIEI, MPES, MIAS

CIT EXTENDED CAMPUS
Head  Dr Irene Sheridan, BE, MEngSc, PhD
Academic Faculty Representative, Faculty of Engineering & Science  Mr Daithí Fallon, BE, MEngSc, CEng, MIEI, CQE

CIT CORK SCHOOL OF MUSIC
Director  Dr Geoffrey Spratt, BA, PhD
Head of School  Ms Alveen Kearney, MA, BMus, HDE, ATCL
Head of Department of Keyboard Studies  Dr Gabriela Mayer, DMA, MMus, BMus, Dip Berlin Hochschule
Head of Department of Musicianship & Academic Studies  Ms Maria Judge, BMus, Dip Kodály Intézet Hungary
Head of Department of String Studies  Ms Joan Scannell, MA, BMus, DipCSM, LTCL
Head of Department of Wind, Percussion, Voice & Drama Studies  Mr John O’Connor, MA, BMus, HDE, FTCL, LRSM

CIT CRAWFORD COLLEGE OF ART & DESIGN
Head  Ms Orla Flynn, MSc, MA, MICS, MIDI
Head of Department of Art & Design Education  Mr Albert Walsh, MEd, Dip ADT, ND Design
Head of Department of Art Therapy & Continuing Visual Education  Mr Edward Kuczaj, MA, Dip Art Th, RNMS
Head of Department of Fine Art & Applied Art  Ms Trish Brennan, MA, BA
Head of Department of Media Communications  Ms Rose McGrath, MA, Dip Ed, BDes

NATIONAL MARITIME COLLEGE OF IRELAND
Head  Mr Conor Mowlds, BSc, GDip, CMILT
Head of Department of Maritime Studies  Mr Vivion Gough, Class 1 Mariner (Unlimited)
Head of NMCi Services  Vacant
3. Academic & Student Affairs

3.1 Academic Council Membership
3.2 Academic Council Executive Committee Membership
3.3 Academic Council Committees
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3.5 Approved Courses – Full-Time
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3.8 Validating Authorities
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3.12 Student Ombudsman
3.1 Academic Council Membership

The current members of the Academic Council were appointed in May 2013 and will continue in office for a period of three years. The Academic Council met on nine occasions during the period 1 September 2013 to 31 August 2014 as follows:

- Wednesday, 9 October 2013
- Wednesday, 1 November 2013 (Special meeting)
- Wednesday, 13 November 2013
- Friday, 13 December 2013
- Wednesday, 12 February 2014
- Wednesday, 12 March 2014
- Wednesday, 9 April 2014
- Wednesday, 14 May 2014
- Friday, 13 June 2014

PRESIDENT
Brendan J. Murphy

SENIOR ACADEMIC STAFF

- Adrian Gregan   Head of Department of Tourism & Hospitality
- Áine Ní Shé   Head of Department of Mathematics
- Aiveen Kearney   Head of School, CIT CSM
- Albert Walsh   Head of Department of Art & Design Education, CIT CCAD
- Brendan O’Connell   Head of Department of Biological Sciences
- Brian McGrath   Head of Department of Management & Enterprise
- Caroline O’Reilly   Head of Department of Accounting & Information Systems
- Cian O’Neill   Head of Department of Sport, Leisure & Childhood Studies
- Conor Mowlds   Head of College, NMCI
- Daithí Fallon   Academic Faculty Representative, Faculty of Engineering and Science, CIT Extended Campus
- Daniel Cahill   Head of Department of Construction
- Desmond Walsh   Head of Department of Civil, Structural & Environmental Engineering
- Dirk Pesch   Head of NIMBUS Centre
- Don Crowley   Head of Department of Organisation & Professional Development
- Eamonn Cashell   Dean of Graduate Studies
- Ed Kuczaj   Head of Department of Art Therapy & Continuing Visual Education, CIT CCAD
- Gabriela Mayer   Head of Department of Keyboard Studies, CIT CSM
- Geoffrey Spratt   Director, CIT Cork School of Music
- Gerard Kelly   Head of Department of Mechanical, Biomedical & Manufacturing Engineering (Acting)
- Gerard O’Donovan   Head of Faculty of Business & Humanities and Head of School of Business
- Guillaume Huyet   Head of Department of Physical Sciences
- Hugh McGlynn   Head of School of Science & Informatics
- Irene Sheridan   Head of Extended Campus
- Jim O’Dwyer   Head of Department of Computing
- Jim Walsh   Head of Department of Applied Social Studies
- Joan Scannell   Head of Department of String Studies, CIT CSM
- Joe Connell   Head of Department of Electrical & Electronic Engineering
- Joe Harrington   Head of School of Building & Civil Engineering
- John O’Connor   Head of Department of Wind, Percussion, Voice & Drama Studies, CIT CSM
- Katherine Keane   Head of Department of Architecture
- Marese Bermingham   Head of Strategic Student Engagement & Retention Initiative
- Margaret Linehan   Head of School of Humanities
- Maria Judge   Head of Department of Musicianship & Academic Studies, CIT CSM
Matt Cotterell  Head of School of Mechanical, Electrical & Process Engineering
Michael Hourihan  Head of Centre of Craft Studies
Michael J. O’Mahony  Head of Department of Process, Energy & Transport Engineering
Michael Loftus  Head of Faculty of Engineering & Science
Niall Smith  Head of Research
Noel Barry  Head of Academic Affairs, School of Graduate Studies
Orla Flynn  Vice President for External Affairs and Head of CIT CCAD
Pio Fenton  Head of Department of Marketing & International Business
Rose McGrath  Head of Department of Media Communications
Tim Horgan  Head of Online Delivery
Trish Brennan  Head of Department of Fine Art & Applied Art, CIT CCAD
Vivion Gough  Head of Department of Maritime Studies, NMCI

SENIOR EXECUTIVE
Barry O’Connor  Registrar & Vice President for Academic Affairs
Orla Flynn  Vice President for External Affairs
Paul Gallagher  Vice President for Finance & Administration

EX-OFFICIO STAFF
Catherine Frehill  Module Moderator
Dan Collins  Academic Administration and Student Affairs Manager
Commander Stephen Walsh  Associate Head of NMCI
Derry Delaney  Librarian
Eva Juhl  Institutional Review Facilitator
Stephen Cassidy  Dean of Academic Quality Enhancement
Tadhg Leane  Head of Strategic Development

STUDENT REPRESENTATIVES
Avril Constant  Class Representative
Danny O’Donovan  President of CIT Students’ Union
Eamon Shanahan  Representative of CIT CCAD, CIT CSM and NMCI
Richard McCarthy  Education Vice-President of CIT Students Union

ELECTED ACADEMIC STAFF
Faculty of Engineering & Science
Ambrose Furey  Physical Sciences
Anna-Maria Keaveney  Biological Sciences
Anthony Grant  Physical Sciences
David Cadogan  Civil, Structural & Environmental Engineering
Deborah Ni Riain  Architecture
Eamonn Butler  Physical Sciences
Garrett O’Sullivan  Architecture
Gerard MacSweeney  Computing
Ian O’Sullivan  Process, Energy & Transport Engineering
John Barrett  Electrical & Electronic Engineering
John Creagh  Computing
Joseph Croke  Biological Sciences
Maretta Brennan  Mathematics
Michael O’Donovan  Electrical & Electronic Engineering
Michael Murray  Electrical & Electronic Engineering
Niamh Power  Civil, Structural & Environmental Engineering
Oliver Gough  Electrical & Electronic Engineering
Ray Looney  Centre of Craft Studies
Seán Lacey  Mathematics
Vincent Ryan  Computing
William Doherty  Physical Sciences

Faculty of Business & Humanities
Áine de Róiste  Applied Social Studies
Carmel Buttimer  Accounting & Information Systems
Christopher Mamo  Applied Social Studies
Con Burns  Sport, Leisure & Childhood Studies
Conor Kelleher  Marketing & International Business
Donagh Davern  Tourism & Hospitality
Gail Cotter Buckley  Tourism & Hospitality
Gearóid Ó Súilleabháin  DEIS
Maurice Murphy  Management & Enterprise
Muireann O’Neill  Organisation & Professional Development
Tom O’Connor  Applied Social Studies
Roisin Lane  Applied Social Studies
Ruth Vance  Accounting & Information Systems

CIT CCAD
Ann Wilson  Media Communications
Janet Doolan  Fine Art & Applied Art
Padraig Trehy  Fine Art & Applied Art

CIT CSM
Michael Joyce  Keyboard Studies
Nicholas O’Halloran  Keyboard Studies

NMCI
Dermot O’Reilly  NMCI
Ian Black  NMCI
3.2 Academic Council Executive Committee Membership

The composition of the Academic Council Executive Committee is:
1. The President (ex-officio)
2. The Registrar & Vice President for Academic Affairs (ex-officio)
3. The Chairpersons of the Academic Council Committees
4. Seven nominated members of the Academic Council, one of whom is a student representative

The functions of the Executive Committee are:
- To order the business of the Academic Council, including the channelling of all business items to and from the Academic Council and its Committees;
- To refer relevant matters to Committees of the Academic Council;
- To coordinate the work of the Committees of the Academic Council;
- To assist in the implementation of Academic Council decisions.

Meetings of the Academic Council Executive Committee
- Normally are held two weeks prior to and two weeks after the Academic Council meeting and at such other times deemed to be necessary;
- Quorate of at least half of the membership of the Executive Committee to be present;
- Chaired by the President or by the President’s nominee from within the Executive Committee. In the absence of the President or President’s nominee, an acting Chairperson shall be appointed from within the Executive Committee by the members present;
- Recorded by the Registrar & Vice President for Academic Affairs who shall act as Secretary of the Executive Committee. In the absence of the Registrar & Vice President for Academic Affairs, an acting Secretary shall be nominated from within the Executive Committee by the members present.
3.3 Academic Council Committees

The Academic Council approved the formation of the following committees:

ACADEMIC PLANNING & REVIEW COMMITTEE
Dr Catherine Frehill (Chairperson)

ADMISSIONS COMMITTEE
Don Crowley (Chairperson)

LEARNING RESOURCES COMMITTEE
Dr Gearóid O’Suilleabháin (Chairperson)

REGULATIONS COMMITTEE
Ms Muireann O’Neill (Chairperson)

RESEARCH & DEVELOPMENT COMMITTEE
Dr Ambrose Furey (Chairperson)

STANDING ORDERS COMMITTEE
Jim Walsh (Chairperson)
3.4 Academic Development

External Reviews

During the 2013/14 academic year, Phase 1 of the programmatic review for the Engineering Schools within the Faculty of Engineering and Science was completed with Prof. T.F. Knibb as Chair. This phase consisted of a strategic review of the Schools and their activities. The review panel consisted of a number of national and international experts drawn from both industry and academia. A detailed review and re-validation of the programmes within the School of Building & Civil Engineering and the Department of Electrical & Electronic Engineering took place subsequently in the year.

In June, a Delegated Authority Review for Level 9 Research Awards took place. A panel of national and international external experts undertook an evaluation of CIT’s institutional capacity for research degree provision at Masters level. The panel recommended to QQI that an extension of delegated authority to make Masters by Research awards in all discipline areas be given to the Institute.

New Programme Development

The Institute continued to develop and diversify its programme portfolio. It is notable the number of new programmes that were developed and approved during the academic year.

Undergraduate

Bachelor of Business (Hons) in International Business; Higher Diploma in Business in Sales Management.

Postgraduate

Professional Master of Education (Art & Design) (jointly with UCC); Postgraduate Diploma in Engineering in Structural Engineering.

Special Purpose Awards

Certificate in Mechanical Services Technology; Certificate in Automotive Technology; Certificate in Biopharmaceutical Manufacturing Operations; Certificate in Food Manufacturing Operations; Certificate in Automotive Powertrain Technology; Certificate in Automotive Systems Technology; Certificate in Lean Sigma Green Belt; Certificate in Plant and Piping Design; Certificate in Digital Marketing; Postgraduate Certificate in Professional Practice.
3.5 Approved Courses – Full-Time that operated in 2013/14

SCHOOL OF BUILDING & CIVIL ENGINEERING

Department of Architecture
Level 7
Bachelor of Science in Architectural Technology – Years 1, 2 & 3
Bachelor of Science in Interior Architecture – Years 1, 2 & 3

Level 8
Bachelor of Science (Hons) in Architectural Technology – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Architecture – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Interior Architecture – Years 1, 2, 3 & 4

Level 9
Master of Science (Research) – Year 5
Master of Science in Architectural Technical Design (Taught) – Year 5
Master of Science in Interior Architecture (Taught) – Year 5
Master of Architecture (Taught) – Year 5

Level 10
Doctor of Philosophy – Year 6

Department of Civil, Structural & Environmental Engineering
Level 7
Bachelor of Engineering in Civil Engineering – Years 1, 2 & 3
Bachelor of Engineering in Environmental Engineering – Year 1

Level 8
Bachelor of Engineering (Hons) in Structural Engineering – Years 1, 2, 3 & 4
Bachelor of Engineering (Hons) Common Entry Engineering – Year 1

Level 9
Master of Engineering in Civil Engineering (Environment & Energy) (Taught) – Year 5
Master of Engineering (Research) – Year 5
Master of Engineering in Structural Engineering (Taught) – Year 5

Level 10
Doctor of Philosophy – Year 6

Department of Construction
Level 7
Bachelor of Science in Quantity Surveying – Year 3
Bachelor of Science in Construction – Years 1 & 2
Bachelor of Science in Construction Management – Year 3

Level 8
Bachelor of Science (Hons) in Construction Management – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Quantity Surveying – Years 1, 2, 3 & 4

Level 9
Master of Science in Construction Project Management (Taught) – Year 5

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

Department of Mechanical, Biomedical & Manufacturing Engineering
Level 7
Bachelor of Engineering in Mechanical Engineering – Years 1, 2 & 3
Bachelor of Engineering in Biomedical Engineering – Years 1, 2 & 3

Level 8
Bachelor of Engineering (Hons) in Mechanical Engineering – Years 1, 2, 3 & 4
Bachelor of Engineering (Hons) in Biomedical Engineering – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Advanced Manufacturing Technology – Year 4
Bachelor of Science (Hons) in Process Plant Technology – Year 4
Level 9
Master of Engineering (Research) – Year 5
Master of Engineering in Mechanical Engineering (Taught) – Year 5
Level 10
Doctor of Philosophy – Year 6

Department of Process, Energy and Transport Engineering
Level 6
Higher Certificate in Science in Good Manufacturing Practice and Technology – Years 1 & 2
Level 7
Bridging Studies in Sustainable Energy Engineering – Year 1
Bachelor of Engineering in Building Services Engineering – Years 1, 2, & 3
Bachelor of Science in Transport Management & Technology – Years 1, 2 & 3
Level 8
Bachelor of Engineering (Hons) in Chemical & Biopharmaceutical Engineering – Years 1, 2, 3 & 4
Bachelor of Engineering (Hons) in Sustainable Energy Engineering – Years 1, 2, 3 & 4
Bachelor of Engineering (Hons) in Building Energy Systems – Years 2 & 4
Bachelor of Science (Hons) in Transport Management – Year 4
Level 10
Doctor of Philosophy – Year 6

Department of Electrical & Electronic Engineering
Level 7
Bachelor of Engineering in Electronic Engineering – Years 1, 2 & 3
Bachelor of Engineering in Electrical Engineering – Years 1, 2 & 3
Level 8
Bachelor of Engineering (Hons) in Electrical Power Systems – Years 2, 3 & 4
Bachelor of Engineering (Hons) in Electronic Systems Engineering – Years 1, 2, 3 & 4
Level 9
Master of Engineering (Research) – Year 5
Level 10
Doctor of Philosophy – Year 6

Centre of Craft Studies
Level 7
Bachelor of Science in Craft Technology (Wood) with Business – Years 1 & 2
Bachelor of Science in Craft Technology (Engineering Services/Plumbing) – Year 1

SCHOOL OF SCIENCE & INFORMATICS

Department of Biological Sciences
Level 7
Bachelor of Science in Applied Biosciences & Biotechnology – Year 3
Bachelor of Science in Applied Biosciences – Years 1 & 2
Bachelor of Science in Food & Health Science – Year 3
Level 8
Diploma in Clinical Laboratory Practice (SPA) – Year 1
Bachelor of Science (Hons) in Biomedical Science – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Herbal Science – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Nutrition & Health Science – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Pharmaceutical Biotechnology – Years 1, 2, 3 & 4
Level 9
Master of Science (Research) – Year 5
Master of Science in Computational Biology (Taught) – Year 5
Level 10
Doctor of Philosophy – Year 6
Department of Computing

Level 6
Higher Certificate in Science in Information Technology Support – Year 2

Level 7
Bachelor of Science in Computing – Years 1, 2 & 3
Bachelor of Science in Information Technology Support – Years 1, 2 & 3

Level 8
Higher Diploma in Science in Cloud Computing – Year 5
Bachelor of Science (Hons) in Information Technology Management – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Software Development – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Software Development & Computer Networking – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Web Development – Years 1, 2, 3 & 4

Level 9
Master of Science in Software Development (Taught) – Year 5
Master of Science in Networking & Security (Taught) – Year 5

Level 10
Doctor of Philosophy – Year 6

Department of Mathematics

Level 8
Higher Diploma in Science Data Analytics & Analysis Part 2 – Year 5

Level 9
Master of Science (Research) – Year 5

Level 10
Doctor of Philosophy – Year 6

Department of Physical Sciences

Level 7
Bachelor of Science in Applied Physics & Instrumentation – Years 1, 2 & 3
Bachelor of Science in Analytical & Pharmaceutical Chemistry – Years 1, 2 & 3

Level 8
Bachelor of Science (Hons) in Applied Physics & Instrumentation – Year 4
Bachelor of Science (Hons) in Environmental Science & Sustainable Technology – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Instrument Engineering – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance – Years 1, 2, 3 & 4

Level 9
Master of Science (Research) – Year 5

Level 10
Doctor of Philosophy – Year 6

SCHOOL OF BUSINESS

Department of Accounting & Information Systems

Level 7
Bachelor of Business in Accounting – Years 1, 2 & 3
Bachelor of Science in Agriculture – Years 1, 2 & 3
Bachelor of Science in Horticulture – Years 1, 2 & 3

Level 8
Bachelor of Business (Hons) in Accounting – Years 1, 2, 3 & 4
Bachelor of Business (Hons) in Information Systems – Years 1, 2, 3 & 4
Bachelor of Science (Hons) in Agriculture – Year 4
Bachelor of Science (Hons) in Horticulture – Year 4

Department of Management and Enterprise

Level 6
Higher Certificate in Business – Years 1 & 2

Level 7
Bachelor of Business in Business & Management – Year 3
Bachelor of Business – Years 1 & 2
Level 8
Bachelor of Business (Hons) – Year 4

Department of Marketing and International Business
Level 7
Bachelor of Business in Marketing – Year 3
Level 8
Bachelor Business (Hons) in Marketing – Years 1, 2, 3 & 4
Level 9
Master of Science (Taught) – Year 5
Master of Business (Research) – Year 5
Level 10
Doctor of Philosophy – Year 6

Department of Organisation & Professional Development
Level 7
Bachelor of Business in Business Administration – Years 1, 2, 3
Level 8
Bachelor of Business (Hons) in Business Administration – Year 4
Level 9
ACCA Qualification – Year 1
Master of Business (Taught) – Year 5

SCHOOL OF HUMANITIES
Department of Applied Social Studies
Level 7
Bachelor of Arts in Community Development – Year 2
Bachelor of Arts in Social Care – Years 1, 2 & 3
Level 8
Bachelor of Arts (Hons) in Community Development – Year 4
Bachelor of Arts (Hons) in Social Care – Year 4
Level 9
Master of Arts (Research) – Year 5
Level 10
Doctor of Philosophy – Year 6

Department of Sport, Leisure & Childhood Studies
Level 7
Bachelor of Business in Recreation & Leisure Management – Years 1, 2 & 3
Bachelor of Arts in Early Years Education – Years 1, 2, & 3
Level 8
Bachelor of Business (Hons) in Sport & Exercise – Year 4
Bachelor of Arts (Hons) in Early Years Education – Year 4
Bachelor of Arts (Hons) in Montessori Education – Years 3 & 4

Department of Tourism & Hospitality
Level 6
Higher Certificate in Arts in Culinary Studies – Years 1 & 2
Higher Certificate in Arts in Hospitality Studies – Years 1 & 2
Level 7
Bachelor of Business in Bar Management – Years 1, 2 & 3
Bachelor of Business in Culinary Arts – Years 1, 2 & 3
Bachelor of Business in Hospitality Management – Years 1, 2 & 3
Bachelor of Business in Tourism – Years 1, 2 & 3
Level 8
Bachelor of Business (Hons) in Hospitality Management – Year 4
Bachelor of Business (Hons) in Tourism – Years 1, 2, 3 & 4
Level 9
Master of Arts (Research) – Year 5
Level 10
Doctor of Philosophy – Year 6

NATIONAL MARITIME COLLEGE OF IRELAND
Level 6
Higher Certificate in Science in Nautical Studies – Years 1, 2 & 3
Higher Certificate in Arts in Leadership, Management & Naval Studies – Year 1
Level 7
Bachelor of Arts in Leadership, Management & Naval Studies – Year 3
Bachelor of Engineering in Marine & Plant Engineering – Years 1, 2 & 3
Bachelor of Engineering in Marine Electrotechnology – Years 1, 2 & 3
Bachelor of Science in Nautical Science – Years 1, 2 & 3
Level 8
Bachelor of Science (Hons) in Nautical Science – Year 4
Certificate of Competency Deck – Officer of the Watch Navigation
Certificate of Competency Deck – Chief Mate/Master

CIT CORK SCHOOL OF MUSIC
Level 8
Bachelor of Music (Hons) – Years 1, 2, 3 & 4
Bachelor of Arts (Hons) in Popular Music – Years 1 & 2
Bachelor of Arts (Hons) in Theatre and Drama Studies – Years 1 & 2
Level 9
Master of Arts in Music (Taught) – Year 5
Master of Arts (Research) – Year 5
Master of Arts in Music & Technology (Taught) – Year 5
Master of Science in Music & Technology (Taught) – Year 5

CIT CRAWFORD COLLEGE OF ART & DESIGN
Level 8
Bachelor of Arts (Hons) in Contemporary Applied Art (Ceramics, Glass, Textiles) – Years 1, 2, 3 & 4
Bachelor of Arts (Hons) in Fine Art – Years 1, 2, 3 & 4
Higher Diploma in Arts for Art & Design Teachers – Year 5
Level 9
Master of Arts in Art and Process (Taught) – Year 5
Master of Arts (Research) – Year 5
Master of Arts in Art Therapy (Taught) – Year 5

Department of Media Communications
Level 7
Bachelor of Arts in Design Communication – Year 3
Level 8
Bachelor of Arts (Hons) in Multimedia – Years 1, 2, 3 & 4
Bachelor of Arts (Hons) in Visual Communications – Years 1, 2, 3 & 4
Level 9
Master of Arts in Public Relations with New Media (Taught) – Year 5
Master of Arts in Journalism with New Media (Taught) – Year 5
Master of Arts (Research) – Year 5
Master of Arts in E-Learning Design & Development (Taught) – Year 5
Level 10
Doctor of Philosophy – Year 6
3.6 Fáilte Ireland and Craft Approved Courses

FACULTY OF BUSINESS & HUMANITIES
Department of Tourism & Hospitality
Level 6
FETAC Advanced Certificate in Professional Cookery
Fáilte Ireland FETAC Certificate in Professional Cookery

FACULTY OF ENGINEERING & SCIENCE
Centre of Craft Studies
National Craft Certificate – Construction Plant Fitting
National Craft Certificate – Electrical
National Craft Certificate – Fitting
National Craft Certificate – Metal Fabrication
National Craft Certificate – Motor Mechanics
National Craft Certificate – Plastering
National Craft Certificate – Plumbing
National Craft Certificate – Refrigeration and Air Conditioning
Carpentry & Joinery Refresher - Phases 4 & 6
Plumbing Refresher – Phase 6
Electrical Refresher – Phase 4
3.7 Approved Courses – Part-Time

The following part-time courses operated in the academic year 2013/14.

SCHOOL OF SCIENCE & INFORMATICS

Department of Biological Sciences
Level 7
Bachelor of Science in Applied Biosciences & Biotechnology – Year 3
Bachelor of Science in Applied Biosciences – Year 1

Level 8
Bachelor of Science (Hons) in Pharmaceutical Biotechnology – Year 4

Department of Computing

Level 6
VMware Certificate VMware Technologies – Year 1
Certificate (SPA) Cloud Infrastructure Technologies – Year 1
CCNA Certificate CISCO Certified Network Associate (CCNA) – Year 1
Higher Certificate in Science in Computing – Years 1 & 2
Higher Certificate in Information Technology Support – Years 2 & 3
CISCO IT Essentials 1 Certificate (CompTIA A+) Computer Hardware & Operating Systems Technologies – Year 1

Level 7
Bachelor of Science in Computing – Year 3
Bachelor of Science in Information Technology Support – Years 2 & 3

Level 8
Higher Diploma in Science in Cloud Computing Part 2 – Year 5
Higher Diploma in Science in Cloud and Mobile Software Development – Year 5
Higher Diploma in Science in Software Development – Year 5
Bachelor of Science (Hons) in Cloud Computing Parts 1 & 2 – Year 4
Bachelor of Science (Hons) in Software Development – Year 3
Bachelor of Science (Hons) in Software Development & Computer Networking – Year 4
Bachelor of Science (Hons) in Web Development – Years 1 & 4

Level 9
Master of Science in Cloud Computing (Taught) – Year 5
Master of Science in Cloud Computing (Taught) Parts 1 & 2 – Year 5
Master of Science in Networking & Security (Taught) – Year 5
Master of Science in Software Development (Taught) – Year 5

Department of Physical Sciences

Level 6
Higher Certificate in Science in Industrial Measurement and Control – Years 1 & 2
Certificate (SPA) Quality Assurance – Year 1

Level 7
Bachelor of Science in Applied Physics and Instrumentation – Years 2 & 3
Single Subject Certificate (SPA)
Excellence Ireland Diploma Quality Management – Years 1 & 2
Bachelor of Science in Analytical and Pharmaceutical Chemistry – Year 3

Level 8
Bachelor of Science (Hons) in Applied Physics and Instrumentation – Year 4
Bachelor of Science (Hons) in Instrument Engineering – Year 4

SCHOOL OF BUSINESS

Department of Accounting and Information Systems

Level 7
Bachelor of Business in Accounting – Year 3

Level 8
Bachelor of Business (Hons) in Accounting – Year 4
Department of Management & Enterprise

Level 6
Certificate (SPA) Enterprise Potential – Year 1
Higher Certificate in Business – Years 1 & 2

Level 7
Bachelor of Business in Business & Management – Years 1 & 2
Bachelor of Business in Management – Years 2 & 3

Level 8
Bachelor of Business (Hons) – Year 4

Department of Marketing and International Business

Level 7
Bachelor of Business in Marketing – Year 3

Level 8
Bachelor of Business (Hons) in Marketing – Year 2

Level 9
Master of Science in Marketing Practice (Taught) – Year 5

Department of Organisation & Professional Development

Level 6
Diploma in Accounting and Business – Year 1
Certificate (SPA) in Introductory Book-Keeping and Accounting
CIMA Certificate in Business Accounting A
Accounting Technician Accounting & Information Skills – Years 1 & 2

Level 7
Bachelor of Arts in Human Resource Management – Years 1, 2 & 3

Level 8
Bachelor of Arts (Hons) in Human Resource Management – Year 4
Certified Public Accountants – Formation 2
Certified Public Accountants – Professional 1 and 2

Level 9
Master of Business (Taught) – Year 5
Master of Arts in Human Resource Management (Taught) – Year 5

Level 10
Doctor of Philosophy

SCHOOL OF HUMANITIES

Department of Applied Social Studies

Level 6
Certificate (SPA) in Counselling Skills – Year 1
Higher Certificate in Arts in Counselling Skills – Year 2

Level 7
Bachelor of Arts in Social Care – Years 1, 2 & 3

Level 8
Bachelor of Arts (Hons) in Counselling and Psychotherapy – Years 3 & 4

Level 9
Master of Arts in Integrative Psychotherapy (Taught) – Year 5

Department of Tourism & Hospitality

Level 6
Certificate (SPA) in Mixology & Cocktail Making AMC
Certificate (SPA) in Practical Bakery Techniques
Certificate in Pastry Tarts & Gateaux
Certificate (SPA) in Professional Bar Operations

Level 7
Bachelor of Business in Culinary Arts – Years 2 & 3
Bachelor of Business in Tourism – Year 2

SCHOOL OF BUILDING & CIVIL ENGINEERING

Department of Architecture

Level 8
Bachelor of Science (Hons) in Interior Architecture – Years 3 & 4
Department of Civil, Structural & Environmental Engineering

Level 6
Higher Certificate in Engineering in Civil Engineering – Year 2

Level 7
Certificate (SPA) in Environmental and Energy Engineering – Year 1
Bachelor of Engineering in Civil Engineering – Year 3

Level 8
Single Subject Certificate (SPA) in Building Regulatory Engineering
Single Subject Certificate (SPA) in Civil Engineering Modules
Certificate (SPA) in Environmental and Energy Engineering – Year 1
Bachelor of Engineering (Hons) in Structural Engineering – Years 1 & 3

Level 9
Master of Engineering in Structural Engineering (Taught) – Year 5
Master of Engineering in Civil Engineering (Environment & Energy) (Taught) – Year 5
Postgraduate Diploma in Civil Engineering (Environment & Energy) – Year 5
Single Subject Certification (SPA) in Civil Engineering Modules (Taught)

Department of Construction

Level 7
Bachelor of Science in Quantity Surveying – Year 3

Level 8
Bachelor of Science (Hons) in Construction Management – Year 4

Level 9
Master of Science in Construction Project Management (Taught) – Year 5

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

Department of Electrical & Electronic Engineering

Level 7
Bachelor of Engineering in Electrical Engineering – Years 1, 2 & 3

Level 8
Bachelor of Engineering (Hons) in Electronic Systems Engineering – Year 4
Bachelor of Engineering (Hons) in Electrical Power Systems – Year 4

Department of Mechanical, Biomedical & Manufacturing Engineering

Level 6
Certificate (SPA) in 3D CAD and Solid Modelling – Year 1
Society of Manufacturing Engineers Certificate - Certified Manufacturing Engineer – Year 1
Single Subject Certificate (SPA) in Lean Practitioner A
Bridging Studies in Mechanical Engineering Science – Year 1
Certificate Mechanical Science – Year 1
Single Subject Certificate (SPA) in Project Management Techniques A & B

Level 7
Certificate (SPA) in Automation and Control Systems – Year 1
Single Subject Certificate (SPA) in Mechatronics – Year 1
Single Subject Certificate (SPA) in SCADA & Automation Systems – Year 1
Certificate (SPA) in Lean Six Sigma Green Belt
Certificate in Piping Design – Year 1
Single Subject Certificate (SPA) in Robotics – Year 1
Bachelor of Engineering in Mechanical Engineering – Year 3

Level 8
Bachelor of Science (Hons) in Advanced Manufacturing Technology – Year 4
Bachelor of Engineering (Hons) in Mechanical Engineering – Year 4
Bachelor of Science (Hons) in Process Plant Technology – Year 4
Certificate in Project Management A – Year 1
Certificate in Project Management B – Year 1
Certificate (SPA) in Lean Six Sigma Black Belt A

Level 9
Master of Engineering (Research) – Year 5
Master of Engineering in Mechanical Engineering (Taught) – Year 5
Department of Process, Energy & Transport Engineering

Level 6
Certificate (SPA) in Chemical and Biopharmaceutical Process Operations – Year 1
Higher Certificate in Science in Good Manufacturing Practice & Technology – Years 1, 2 & 3

Level 7
Certificate (SPA) in Biopharmaceutical Processing – Year 1
Diploma in Biopharmaceutical Manufacturing Operations – Year 1
Bachelor of Engineering in Building Services Engineering – Year 3
Bachelor of Science in Good Manufacturing Practice and Technology – Year 3
Bachelor of Science in Transport Management & Technology – Year 3

Level 8
Certificate (SPA) in Chemical & Biopharmaceutical Engineering – Year 1
No Award (Bridging Studies) in Chemical and Biopharmaceutical Engineering – Year 1
Bachelor of Engineering (Hons) in Chemical & Biopharmaceutical Engineering – Year 1
Bachelor of Engineering (Hons) in Building Energy Systems – Year 4
Bachelor of Engineering (Hons) in Sustainable Energy Engineering – Years 2 & 4
Bachelor of Science (Hons) in Transport Management – Year 4
Single Subject Certificate (SPA) in Chemical Process Safety A – Year 1

Level 9
Certificate (SPA) in Process Industries Advancements and Innovation (Masters Taught) – Year 1

Centre of Craft Studies

Level 6
Coded Welding Course ASME EN287– Year 1
Certificate (SPA) in Automotive Technology – Year 1
Electrical Refresher Phase 6
Coded Welding Course European Standard EN287
Welding Institute Certificate in Welding and Fabrication Practice

Level 7
Certificate (SPA) in Automotive Powertrain Technology
Certificate (SPA) in Automotive Systems Technology

NATIONAL MARITIME COLLEGE OF IRELAND

Level 7
Bachelor of Business in Supply Chain & Transport Management – Year 3

Level 8
Bachelor of Science (Hons) in Nautical Science – Year 4

Professional Training
Certificate of Competency in Marine Engineering – Second Engineer Officer/Chief Engineer Officer
Certificate of Competency in Marine Engineering – Officer of the Watch

TEACHING & LEARNING UNIT

Level 9
Master of Arts in Teaching and Learning in Higher Education (Taught) – Year 5

CIT CRAWFORD COLLEGE OF ART & DESIGN

Level 6
Single Subject Certification (SPA) in Arts Modules (Photography)

Level 7
Single Subject Certification (SPA) in Arts Modules (Textiles)
Single Subject Certification (SPA) in Arts Modules (Fine Art Photography)
Single Subject Certification (SPA) in Arts Modules (Ceramics Handbuild)
Single Subject Certification (SPA) in Arts Modules (Life Drawing)

Level 8
Bachelor of Arts (Hons) in Contemporary Applied Art (Ceramics, Glass, Textiles) – Year 2
Bachelor of Arts (Hons) in Fine Art – Years 1, 2
Certificate (SPA) in Arts Participation and Development – Year 1
Certificate (SPA) in Principles and Theory of Art Therapy – Year 1
Certificate (SPA) in Group Arts Facilitation – Year 1
Certificate (SPA) in Fine Art Textiles – Year 2
Level 9
- Master of Arts in Teaching Visual Arts for Primary & Early Years Education (Taught) – Year 5
- Master of Arts in Art Therapy (Taught) – Year 5
- Master of Arts in Art and Process (Taught) – Year 5
- Master of Arts in Art and Design Education (Taught) – Year 5
- Master of Arts (Research) – Year 5

Undergraduate Occasional
- Drawing/Painting
- Pottery
- Stained Glass

Department of Media Communications
Level 6
- Certificate (SPA) in Media Production – Year 1

Level 8
- Higher Diploma in Arts in Public Relations – Year 4
- Bachelor of Arts (Hons) in Multimedia – Years 1 & 4

Level 9
- Master of Arts in Public Relations with New Media – Year 5

CIT CORK SCHOOL OF MUSIC

Level 8
- Bachelor of Music (Hons) – Years 1 & 4

Level 9
- Master of Arts in Music (Taught) – Year 5
- Master of Arts in Music and Technology (Taught) – Year 5

Part-Time
- Bassoon
- Brass Ensemble
- Cello
- Chamber Music
- Clarinet
- Concert Band
- Choir
- Double Bass
- Drama
- Euphonium/Tuba
- Flute
- Flute Band Ensemble
- Guitar
- Harp
- Harpsichord
- Horn
- Horn Ensemble
- Irish Traditional Music
- Jazz Big Band
- Jazz Piano
- Junior Bands
- Junior Guitar Ensemble
- Musicianship
- Oboe
- Opera Studio
- Organ
- Organ Keyboard/Skills
- Orchestra
- Percussion
- Percussion Ensemble
- Piano
- Piano Ensemble
- Recorder
- Recorder Ensemble
- Saxophone
- Singing
- Speech (Class)
- Speech (Individual)
- Suzuki Cello
- Suzuki Violin
- Technique C
- Theory (Individual)
- Trombone
- Trumpet
- Viola
- Violin
- Wind Ensemble
- Woodwind Ensemble
- Youth Music Project
3.8 Validating Authorities

Quality & Qualifications Ireland
On 6 November 2012, Quality and Qualifications Ireland (QQI) was established as a new integrated agency (replacing the Further Education and Training Awards Council, the Higher Education and Training Awards Council and the National Qualifications Authority of Ireland and incorporating the functions of the Irish Universities Quality Board).

QQI is responsible for the external quality assurance of further and higher education and training (including English language provision) and validates programmes and makes awards for certain providers in these sectors.

Professional Bodies
Many professional bodies in engineering, business and science offer their own examinations leading to professional membership and the standard of their final examinations is usually that of honours degree. In addition, holders of Higher Certificates, Ordinary Bachelor Degrees and Honours Degrees may be exempt from appropriate levels of examination of relevant professional bodies following accreditation of the relevant courses by the professional bodies.

Department of Education & Skills
Technological Certificates
The Institute offers technological certificate courses for part-time students through evening courses. These certificates are validated by the Department of Education & Skills.

These courses are provided in the following areas, Building, Automobile Engineering, Mechanical Engineering, and Electrical Engineering.

Apprentices
The Institute offers courses at Phase 4 and Phase 6 levels during apprenticeship. Success at the examinations leads to the award of the Advanced Certificate awarded by QQI.

These courses are provided in the areas of Welding & Metal Fabrication, Building, Automobile Engineering, Mechanical Engineering, Electrical Engineering, and Refrigeration.

Further Education
The Institute through the Department of Tourism and Hospitality provides programmes in Professional Cookery on a full time and day-release basis. The programmes are awarded the Advanced Certificate in Professional Cookery at Level 6 on the National Framework of Qualifications.

Additional Recognition of CIT Courses
City & Guilds of London Institute (CGLI)
A number of part-time courses conducted by the Institute in Engineering are also accredited by the City & Guilds of London Institute as the courses are designed to meet the required content and standards.

The Institute has obtained additional recognition for its courses by professional bodies, in order to enhance the professional standing of graduates and to provide them with the fullest possible advantages for employment and career development. The main recognitions obtained are:

Bachelor of Science (Hons) in Applied Physics & Instrumentation
- Institute of Physics
- The Teaching Council

Bachelor of Science (Hons) in Biomedical Science
- Institute of Biomedical Sciences
- Academy of Medical Laboratory Science

Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance
- Institute of Chemistry of Ireland
- Royal Society of Chemistry
- The Teaching Council
Bachelor of Science (Hons) in Applied Biosciences
• The Teaching Council

Bachelor of Business (Hons)/Bachelor of Business in Accounting/ Higher Certificate in Business/Higher Certificate in Accounting
• Chartered Accountants Ireland
• Chartered Institute of Management Accountants (CIMA)
• Institute of Certified Public Accountants in Ireland (ICPAI)
• Association of Chartered Certified Accountants (ACCA)
(Exemptions from a variety of requirements of these professional bodies)

Bachelor of Business (Hons)/Bachelor of Business in Marketing/ Higher Certificate in Business
• Marketing Institute
(Exemptions are granted depending on specialism and level)

Bachelor of Arts in Human Resource Management
• Chartered Institute of Personnel & Development (CIPD) intermediate level accreditation

Master of Arts in Human Resource Management
• Chartered Institute of Personnel & Development (CIPD) advanced level accreditation

Bachelor of Business in Hospitality Management
• Irish Hospitality Institute

Bachelor of Arts (Hons) in Visual Communication
• The Teaching Council

Bachelor of Arts (Hons) Contemporary Applied Art (Ceramics, Glass, Textiles)
• Institute of Designers of Ireland
• Crafts Council of Ireland
• The Teaching Council

Bachelor of Arts (Hons) Fine Art
• Visual Artists Ireland
• The Teaching Council

Higher Diploma in Arts for Art and Design Teachers
• Recognised and Accredited by The Teaching Council

Master of Arts in Art Therapy
• Irish Association of Creative Art Therapists
• European Association of Art Therapists

Bachelor of Science (Hons)/Bachelor of Science in Nautical Science
• Department of Transport
(A number of short courses embedded in these programmes are accredited for Certificate of Competency purposes)

Bachelor of Science in Quantity Surveying
• Chartered Institute of Building
• Society of Chartered Surveyors

Bachelor of Science in Construction Management
• Chartered Institute of Building
Bachelor of Science in Architectural Technology
• Chartered Institute of Building

Bachelor of Science (Hons) in Architectural Technology
• The Royal Institute of the Architects of Ireland
• Chartered Institute of Building

Bachelor of Science in Interior Architecture
• Chartered Institute of Building

Bachelor of Science (Hons) in Architecture (jointly with UCC)
• The Royal Institute of the Architects of Ireland
• Chartered Institute of Building

Master of Architecture (March) (jointly with UCC)
• The Royal Institute of the Architects of Ireland

Higher Certificates/ Bachelor Degrees in Electrical Engineering, Building Services Engineering
• Engineers Ireland (Engineering Technician/Associate+)
• Chartered Institution of Building Services Engineers

Higher Certificates in Biomedical/Civil/Electronic/Mechanical/Manufacturing Engineering
• Engineers Ireland (Engineering Technician)

Bachelor Degrees in Biomedical/Civil/Electronic/Mechanical/Manufacturing Engineering
• Engineers Ireland (Associate+)

Bachelor of Engineering (Hons) in Sustainable Energy Engineering
• Energy Institute (Chartered*)

Bachelor of Engineering (Hons) in Chemical and Biopharmaceutical Engineering
• Institution of Chemical Engineers (IChemE)

Bachelor of Engineering (Hons) in Structural Engineering
• Institution of Structural Engineers
• Chartered Institute of Building

MEng in Structural Engineering
• Engineers Ireland (Chartered**)

MEng in Civil Engineering (Environment & Energy)
• Engineers Ireland (Chartered**)

Bachelor of Engineering in Marine Engineering
• Engineers Ireland (Associate+)
• Department of Transport, Tourism and Sport
(A number of short courses embedded in the programme are accredited for Certificate of Competency purposes)

Bachelor of Engineering in Marine Electrotechnology
• Department of Transport, Tourism and Sport
(A number of short courses embedded in the programme are accredited for Certificate of Competency purposes)

Bachelor of Engineering in Civil Engineering
• Engineers Ireland (Associate+)
• Chartered Institute of Building
* Eligible following appropriate experience

+ Accredited by Engineers Ireland and covered by the Sydney Accord which is an international agreement among bodies responsible for accrediting Engineering Technologists or Incorporated Engineers. It recognises the substantial equivalency of programs accredited by those bodies and recommends that graduates of programs accredited by any of the signatory bodies be recognised by the other bodies as having met the academic requirements for entry to the practice of engineering technology. Signatories to this agreement are Australia, Canada, Hong Kong China, Ireland, Korea, New Zealand, South Africa, United Kingdom and United States of America.

**Accreditation of CIT Engineering Honours Degrees**

- Bachelor of Engineering (Hons) in Chemical & Biopharmaceutical Engineering
- Bachelor of Engineering (Hons) in Structural Engineering
- Bachelor of Engineering (Hons) in Mechanical Engineering
- Bachelor of Engineering (Hons) in Biomedical Engineering

These honours degrees are fully accredited by Engineers Ireland and graduates are eligible for corporate membership with Chartered Engineer (CEng) status following appropriate experience.

**International Recognition**

*European Engineer*: These honours degrees fulfil the Fédération Européenne d’Associations Nationales d’Ingénieurs (FEANI) Group One registration requirements and thus meet the academic requirements for the award of the title European Engineer (EurIng). Such engineers may practice in most European countries.

*Washington Accord*: As these degrees are accredited by Engineers Ireland (the Irish accreditation body) they also fulfil the requirements for mutual recognition by the national accreditation bodies that have signed the Washington Accord, i.e. USA, United Kingdom, Canada, Chinese Taipei, Australia, New Zealand, Japan, Korea, Malaysia, Singapore, Russia, South Africa, Hong Kong China, Turkey, and Ireland.
3.9 External Examiners

**FACULTY OF BUSINESS & HUMANITIES**

**SCHOOL OF BUSINESS**

**Department of Accounting & Information Systems**

Ms Joanne Blennerhassett
- Bachelor of Business in Accounting
- Bachelor of Business in Business Administration
- Bachelor of Business (Hons)
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems
- Bachelor of Science in Agriculture
- Bachelor of Science in Horticulture

Dr Peter Carew
- Higher Certificate in Business
- Bachelor of Business in Accounting
- Bachelor of Business in Business Administration
- Bachelor of Business in Marketing
- Bachelor of Business (Hons)
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems
- Bachelor of Business (Hons) in Marketing

Ms Patricia Doherty
- Bachelor of Business in Business Administration

Mr Kieran Gallery
- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons)

Prof. Jimmy Hill
- Module extern for Modules in Entrepreneurship & Innovation

Prof. Peter Jones
- Bachelor of Science in Horticulture
- Bachelor of Science (Hons) in Horticulture

Mr Cathal Kearney
- Bachelor of Business in Accounting
- Bachelor of Business in Business Administration
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems

Ms Linda McWeeney
- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting

Ms Fiona Malone
- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems

Mr John Mulhern
- Bachelor of Science in Agriculture
- Bachelor of Science in Horticulture

Mr Mike Wilman
- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting

**Department of Management & Enterprise**

Mr Conor Foley
- Bachelor of Business in Business & Management

Mr Cyril Gavaghan
- Bachelor of Business
- Bachelor of Business (Hons)

Dr Chris Mulhall
- Bachelor of Business

Mr Finian O’Driscoll
- Higher Certificate in Business
- Bachelor of Business
- Bachelor of Business (Hons)

Mr Mike Wilman
- Higher Certificate in Business
- Bachelor of Business
- Bachelor of Business (Hons)

**Department of Marketing & International Business**

Ms Sharon Cavanagh
- Spanish Module - (Bachelor of Business & Marine Courses)

Mr Cyril Gavaghan
- Bachelor of Business in Marketing
- Bachelor of Business (Hons) Marketing

Dr Mary Ann Kenny
- German across all programmes

Dr Eamon Maher
- French Module in all Programmes

Mr Finian O’Driscoll
- Bachelor of Business in Marketing

Mr Mike Wilman
- Bachelor of Business (Hons) in Marketing
- MSc in Marketing Practice

**Department of Organisation & Professional Development**

Dr Peter Carew
- Bachelor of Business in Management
- Master of Business

Prof. Aidan Daly
- Master of Business (Taught)

Mr Conor Foley
- Bachelor of Business in Management
Dr Noel Harvey
- MA in Human Resource Management

Ms Fiona Malone
- Bachelor of Arts (Hons) in Human Resource Management
- Master of Business

Ms Deirdre O’Riordan
- Bachelor of Arts in Human Resource Management
- Bachelor of Arts (Honours) in Human Resource Management

Dr Eileen Reedy
- Bachelor of Arts in Human Resource Management
- Bachelor of Business in Business Administration
- Bachelor of Science in Agriculture
- Bachelor of Science in Horticulture
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems
- MA in Human Resource Management

Ms Hazel Shanahan
- Bachelor of Arts in Human Resource Management

Mr Aidan Walsh
- Bachelor of Arts in Human Resource Management
- Bachelor of Business in Management
- Bachelor of Arts (Hons) in Human Resource Management
- Master of Business

Dr Frank Houghton
- Bachelor of Arts in Social Care
- Bachelor of Arts(Hons) in Social Care

Ms Nicola O’Sullivan
- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

Dr Sharon Phelan
- Bachelor of Arts in Social Care

Ms Cynthia Ransley
- Bachelor of Arts (Hons) in Counselling & Psychotherapy
- MA in Integrative Psychotherapy

Ms Annie Sampson
- Bachelor of Arts in Social Care

Ms Karen Sugrue
- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

**Department of Sport, Leisure & Childhood Studies**

Dr Fiona Chambers
- Bachelor of Business in Recreation & Leisure Management
- Bachelor of Business (Hons) in Sport & Exercise
  (2013 - 2015 to run parallel with the Bachelor of Business in Recreation & Leisure Management)

Dr Denice Cunningham
- Bachelor of Arts in Early Years Education

Dr Mairéad De Búrca
- Bachelor of Arts (Hons) in Montessori

Dr Eilionóir Flynn
- Bachelor of Arts in Early Years Education

Ms Marie O’Dwyer
- Bachelor of Business in Recreation & Leisure Management
- Bachelor of Business (Hons) in Sport & Exercise
  (2013 - 2015 to run parallel with the Bachelor of Business Studies in Recreation & Leisure)

Dr Sharon Phelan
- Bachelor of Arts in Early Years Education

Dr Anna Ridgway
- Bachelor of Arts (Hons) in Montessori

**Department of Tourism & Hospitality**

Ms Brid Crotty
- Higher Certificate in Hospitality Studies

Mr Garrett Edwards
- Bachelor of Business in Bar Management
- Bachelor of Business in Culinary Arts
- Bachelor of Business in Hospitality Studies
Ms Maria Roddy Freyne
• Bachelor of Business in Hospitality Management
• Bachelor of Business (Hons) in Hospitality Management

Mr Raymond Keaney
• Bachelor of Business in Tourism
• Bachelor of Business (Hons) in Tourism
• Bachelor of Business (Hons) in Hospitality Management

Mr Dan Murphy
• Bachelor of Business in Hospitality Management
• Bachelor of Business (Hons) in Hospitality Management

Mr Mark Murphy
• Bachelor of Business in Culinary Arts

Mr Frank O’Connor
• Bachelor of Business in Culinary Arts

Mr Jack Ryan
• Higher Certificate in Arts in Culinary Studies
• Advanced Certificate in Professional Cookery

Mr Stephen Ryan
• Bachelor of Business in Tourism
• Bachelor of Business (Hons) in Tourism

Ms Samantha Mayes
• Bachelor of Science in Interior Architecture
• Bachelor of Science (Hons) in Interior Architecture

Ms Valerie Mulvin
• Bachelor of Science (Hons) in Architecture
• Master of Architecture

Mr Cathal O’Boyle
• Bachelor of Science in Architectural Technology
• Bachelor of Science (Hons) in Architectural Technology

Mr Norman Wienand
• MSc in Architectural Technical Design

Department of Civil, Structural & Environmental Engineering

Mr Brian Byrne
• Higher Certificate in Engineering in Civil Engineering
• Bachelor of Engineering in Civil Engineering

Mr Adrian Cunningham
• Higher Certificate in Engineering in Civil Engineering
• Bachelor of Engineering in Civil Engineering

Mr Paul Kavanagh
• MEng in Structural Engineering

Prof. Pádraic O’Donoghue
• MEng in Civil Engineering in Environment & Energy
• PGDip in Civil Engineering in Environment & Energy

Mr Jack O’Leary
• Bachelor of Engineering (Hons) in Structural Engineering
• Common Entry Engineering - Level 8

Dr Mark Richardson
• MEng in Structural Engineering

Mr PJ Rudden
• MEng in Civil Engineering in Environment & Energy
• PGDip in Civil Engineering in Environment & Energy

Dr Roger West
• Bachelor of Engineering (Hons) in Structural Engineering
• Common Entry Engineering - Level 8

Department of Construction

Mr Paul Greaney
• MSc in Construction Project Management

Mr David Higgins
• Bachelor of Science in Construction Management
• Bachelor of Science (Hons) Construction Management (Add on)
• Bachelor of Science (Hons) in Construction Management

Dr Mike Murray
• Bachelor of Science in Construction Management
• Bachelor of Science (Hons) Construction Management (Add on)
• Bachelor of Science (Hons) in Construction Management
Mr Declan O’Brien
- Bachelor of Science in Quantity Surveying
- Bachelor of Science (Hons) in Quantity Surveying

Mr Mark Poland
- MSc Construction Project Management

Dr Rita Scully
- Bachelor of Science in Quantity Surveying
- Bachelor of Science (Hons) in Quantity Surveying

SCHOOL OF MECHANICAL, ELECTRICAL & PROCESS ENGINEERING

Department of Electrical & Electronic Engineering

Mrs Mary Desmond
- Bachelor of Engineering in Electrical Engineering
- Bachelor of Engineering (Hons) in Electrical Power Systems

Mr Mark Kelleher
- MEng in Embedded Systems Engineering
- MEng in Communications Engineering

Mrs Valerie Kenneally
- Bachelor of Engineering in Electronic Engineering
- Bachelor of Engineering (Hons) in Electronic Systems Engineering

Mr Colm Murray
- Bachelor of Engineering in Electrical Engineering
- Bachelor of Engineering (Hons) in Electrical Power Systems

Mr Traoloch O’Brien
- Bachelor of Engineering in Electronic Engineering
- Bachelor of Engineering (Hons) in Electronic Engineering

Mr Daniel O’Connell
- MEng in Embedded Systems Engineering
- MEng in Communications Engineering

Department of Mechanical, Biomedical & Manufacturing Engineering

Mr Thomas A. Connolly
- Certificate in Project Management (Special Purpose Award)

Mr Ruairi Cullinan
- Certificate in Biomedical Device Manufacture
- Bachelor of Engineering in Biomedical Engineering
- Bachelor of Engineering (Hons) Biomedical Engineering

Mr Martin Gleeson
- Bachelor of Engineering in Mechanical Engineering

Mr Bernard Gould
- Certificate in Project Management (Special Purpose Award)

Dr Brian Lee
- Certificate in Lean Six Sigma Green Belt

Prof. Seán Leen
- Bachelor of Engineering (Hons) in Mechanical Engineering

Mr Trevor Long
- Bachelor of Engineering (Hons) in Mechanical Engineering

Mr Kevin McCarthy
- Bachelor of Science (Hons) in Advanced Manufacturing Technology
- Bachelor of Science (Hons) in Process Plant Technology

Dr Patrick McGarry
- Bachelor of Engineering in Biomedical Engineering
- Bachelor of Engineering (Hons) in Biomedical Engineering

Dr Margaret Morgan
- Bachelor of Science (Hons) in Advanced Manufacturing Technology
- Bachelor of Science (Hons) in Process Plant Technology

Dr Gerry Woods
- Certificate in Automation & Control Systems
- Bachelor of Engineering in Mechanical Engineering

Department of Process, Energy & Transport Engineering

Mr Declan Allen
- Bachelor of Science in Transport Management & Technology
- Bachelor of Science (Hons) in Transport Management

Mr Gordon Bryan
- Bachelor of Science in Transport Management & Technology
- Bachelor of Science (Hons) in Transport Management

Mr Richard Cadbury
- Bachelor of Engineering (Hons) in Chemical & Biopharmaceutical Engineering

Mr Edmund A. Collins
- Certificate in Introduction to Sustainable Energy
- Certificate in Sustainable Energy
- Bachelor of Engineering (Hons) in Sustainable Energy Engineering

Mr Brian Hayes
- Higher Certificate in Science in Good Manufacturing Practice & Technology
- Bachelor of Science in Good Manufacturing Practice & Technology
- Bachelor of Science in Good Manufacturing Practice & Technology (P/T)
- Diploma in Biopharmaceutical Manufacturing Operations
Prof. Neil J. Hewitt
- Higher Certificate in Building Services Engineering
- Bachelor of Engineering in Building Services Engineering
- Bachelor of Engineering (Hons) in Building Energy Systems (Ab-initio)
- Bachelor of Engineering (Hons) in Building Energy Systems

Mr Paul Kenny
- Certificate in Sustainable Energy (Level 6)
- Certificate in Sustainable Energy (Level 7)
- Bachelor of Engineering (Hons) in Sustainable Energy Engineering

Mr Michael Keohane
- Certificate in Plant & Piping Design
- Bachelor of Engineering in Building Energy Systems
- Bachelor of Engineering in Building Services Engineering
- Bachelor of Science in Craft Technology - Mechanical Services
- Bachelor of Engineering (Hons) in Building Energy Systems (Ab-initio)

Ms Joanne Walsh
- Bachelor of Engineering (Hons) in Chemical & Biopharmaceutical Engineering

Ms Bernadette Whelan
- Higher Certificate in Good Manufacturing Practice & Technology
- Bachelor of Science in Good Manufacturing Practice & Technology

SCHOOL OF SCIENCE & INFORMATICS

Department of Biological Sciences

Dr Jakki Cooney
- MSc in Computational Biology

Prof. Olivia Corcoran
- Bachelor of Science (Hons) in Herbal Science

Dr Cormac Gahan
- Bachelor of Science (Hons) in Pharmaceutical Biotechnology

Dr Gillian Gardiner
- Bachelor of Science in Food & Health Science
- Bachelor of Science in Applied Biosciences & Biotechnology

Dr Tom O’Connor
- Bachelor of Science in Food & Health Science

Prof. Richard O’Kennedy
- Bachelor of Science (Hons) in Biomedical Science

Mr Pádraig O’Sullivan
- Bachelor of Science in Biomedical Science
- Diploma in Clinical Lab Practice

Prof. Torres Sweeney
- Bachelor of Science (Hons) in Nutrition and Health Science

Department of Computing

Dr Joan Condell
- Bachelor of Science (Hons) in Software Development & Computer Networking
- MSc in Computational Biology

Ms Erica Gill
- Bachelor of Science (Hons) in Software Development & Computer Networking

Dr Desmond Greer
- MSc in Software Development

Dr Anthony Keane
- Bachelor of Science in IT Support
- Bachelor of Science (Hons) in IT Management

Mr Joseph Lynam
- Bachelor of Science in Computing

Mr Padraig McCarthy
- Bachelor of Science (Hons) in Software Development

Prof. Paul McKevitt
- Bachelor of Science (Hons) in Software Development
- Bachelor of Science (Hons) in Web Development

Dr David Sinclair
- MSc in Networking & Security

Dr David White
- Higher Diploma in Science in Cloud & Mobile Software Development
- Higher Diploma in Science in Cloud Computing
- Bachelor of Science (Hons) in Cloud Computing
- MSc in Cloud Computing

Department of Mathematics

Mr Barry Guiney
- HDip in Science in Data Science & Analytics

Prof. Eamonn Murphy
- HDip in Science in Data Science Analytics
- Module Extern- Statistics

Dr Jeremiah G. Murphy
- Module Extern – Mathematics

Mr Ciarán O’Sullivan
- Module Extern- Mathematics
Department of Physical Sciences

Dr Siobhán Daly
- Bachelor of Science in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Environmental Science & Sustainable Technology
- Bachelor of Science (Hons) in Instrument Engineering

Dr Claire Lennon
- Bachelor of Science in Analytical & Pharmaceutical Chemistry
- Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance

Mr Kevin O’Sullivan
- Bachelor of Science in Analytical & Pharmaceutical Chemistry
- Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance

Mr William Power
- Higher Certificate in Industrial Measurements & Control
- Bachelor of Science in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Computerised Instrument Systems
- Bachelor of Science (Hons) in Instrument Engineering

Dr Carmel Roche
- Bachelor of Science in Analytical & Pharmaceutical Chemistry
- Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance

CENTRE OF CRAFT STUDIES

Mr Simon Dennehy
- Bachelor of Science in Craft Technology (Wood) with Business

Mr Kevin Ryan
- Bachelor of Science in Craft Technology (Wood) with Business

TEACHING & LEARNING UNIT

Dr John Dallat
- Certificate in Teaching & Learning in Higher Education

Mr Neil Quinlan
- Certificate in Teaching & Learning in Higher Education

CIT CORK SCHOOL OF MUSIC

Dr Gareth Cox
- Bachelor of Music (Academic Studies)

Dr Derek Cremin
- Bachelor of Arts (Hons) in Popular Music

Mr Michael D’Arcy
- MA in Music (Taught)

Mr David Hayes
- Bachelor of Arts (Hons) in Popular Music

Mr Paul Meade
- Bachelor of Arts (Hons) in Theatre & Drama Studies

Mr Pádraic Ó Cuinneagáin
- Taught MA in Music Performance / Composition

Mr Brian O’Rourke
- Bachelor of Music (Hons)

Mr Rory Walsh
- Taught MA/MSc in Music & Technology

Mr Lawrence White
- Taught MA/MSc in Music & Technology

Ms Marion Wyatt
- Bachelor of Arts (Hons) in Theatre & Drama Studies

CIT CRAWFORD COLLEGE OF ART & DESIGN

Ms Patsey Bodkin
- Higher Diploma in Arts for Art and Design Teachers
- MA in Art and Design Education
- MA in Teaching Visual in Primary and Early Years Education

Ms Mary Ann Bolger
- Bachelor of Art (Hons) in Contemporary Applied Art (Ceramic, Glass & Textiles)

Mr Brian Connolly
- MA in Art & Process

Mr Declan Long
- MA in Art & Process

Mr Seán Lynch
- Bachelor of Arts (Hons) in Fine Art

Ms Eileen McCourt
- MA in Art Therapy
- Principles of Art Therapy

Ms Denise MacGiolla Ri
- MA in Art Therapy
Ms Amanda Mullins
- Higher Diploma in Arts for Art and Design Teachers

Dr Sharon Phelan
- MA in Art & Design Education
- MA in Teaching Visual Arts in Primary and Early Years Education

Mr Neil Read
- Bachelor of Arts in Applied Art Ceramic
- Bachelor of Arts in Contemporary Applied Art (Ceramic, Glass, Textiles)
- Bachelor of Arts (Hons) in Ceramic Design

Dr Tim Stott
- Bachelor of Arts in Fine Art
- Bachelor of Arts (Hons) in Fine Art

Ms Naomi Sex
- Bachelor of Arts (Hons) in Fine Art

DEPARTMENT OF MEDIA COMMUNICATIONS

Mr Michael Connelly
- Bachelor of Arts in Design Communications
- Bachelor of Arts (Hons) in Visual Communications
- Bachelor of Arts (Hons) in Visual Communications (Ab Initio)

Ms Mary Dundon
- MA in Journalism with New Media

Ms Anita Heavey
- Bachelor of Arts in Design Communications
- Bachelor of Arts in Visual Communications
- Bachelor of Arts (Hons) in Visual Communications (Ab Initio)

Dr Ken Keane
- Bachelor of Arts (Hons) in Multimedia

Mr John Kelly
- MA in E-Learning Design and Development

Ms Lisa McElligott
- Bachelor of Arts (Hons) in Multimedia

Ms Renate Murphy
- HDip in Arts in Public Relations

Mr Darragh O’Toole
- Bachelor of Arts in Design Communications
- Bachelor of Arts (Hons) in Visual Communications
- Bachelor of Arts (Hons) in Visual Communications (Ab Initio)

Ms Niamh Ward
- MA in Public Relations with New Media

NATIONAL MARITIME COLLEGE OF IRELAND

Mr Ciaran Callan
- Bachelor of Engineering in Marine Engineering

Mr Colm McGinley
- Higher Certificate in Naval Leadership & Management

Mr Aidan MacSweeny
- Bachelor of Engineering in Electro Technology
- Bachelor of Engineering in Marine & Plant Engineering

Comdt. Pádraig Macklin
- Higher Certificate in Naval Leadership & Management

Capt. Thomas O’Callaghan
- Higher Certificate in Nautical Studies
- Bachelor of Science in Nautical Studies
- Bachelor of Science (Hons) in Nautical Studies

Mr Gerard F. O’Donnell
- Bachelor of Engineering in Marine Electrotechnology

Comdt. Ray O’Lehan
- Degree in Naval Leadership & Management

Capt. Paul Roche
- Higher Certificate in Nautical Studies

Dr Edward Sweeney
- Bachelor of Business in Supply Chain & Transport Management

Cdr. Steve Walsh
- Certificate in Senior Command Operations
3.10 Student Statistics

Enrolment Statistics for 2012/13 and the two previous years

<table>
<thead>
<tr>
<th></th>
<th>2011/12</th>
<th>2012/13</th>
<th>2013/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Full-time</td>
<td>7,328</td>
<td>7,449</td>
<td>7,694</td>
</tr>
<tr>
<td>Total Part-time</td>
<td>7,066</td>
<td>6,344</td>
<td>6,424</td>
</tr>
<tr>
<td>OVERALL TOTAL</td>
<td>14,394</td>
<td>13,793</td>
<td>14,118</td>
</tr>
</tbody>
</table>

Enrolment statistics for 2013/14 and the two previous years

Enrolments by Gender & Attendance Mode for 2013/14

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FULL-TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Mature</td>
<td>3,869</td>
<td>2,542</td>
<td>6,411</td>
</tr>
<tr>
<td>Mature</td>
<td>854</td>
<td>429</td>
<td>1,283</td>
</tr>
<tr>
<td>TOTAL</td>
<td>4,723</td>
<td>2,971</td>
<td>7,694</td>
</tr>
<tr>
<td>PART-TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fáilte Ireland</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Craft Apprentices</td>
<td>413</td>
<td>0</td>
<td>413</td>
</tr>
<tr>
<td>Evening Courses</td>
<td>2,747</td>
<td>3,264</td>
<td>6,011</td>
</tr>
<tr>
<td>TOTAL</td>
<td>3,160</td>
<td>3,264</td>
<td>6,424</td>
</tr>
<tr>
<td>OVERALL TOTAL</td>
<td>7,883</td>
<td>6,235</td>
<td>14,118</td>
</tr>
</tbody>
</table>
Enrolment Statistics by Gender for three academic years

<table>
<thead>
<tr>
<th></th>
<th>2011/12</th>
<th>2012/13</th>
<th>2013/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>7,675</td>
<td>7,769</td>
<td>7,883</td>
</tr>
<tr>
<td>Female</td>
<td>6,719</td>
<td>6,024</td>
<td>6,235</td>
</tr>
<tr>
<td>Total</td>
<td>14,394</td>
<td>13,793</td>
<td>14,118</td>
</tr>
</tbody>
</table>

Enrolment statistics by gender for three academic years

Breakdown of Whole-Time Equivalent Student Numbers – Higher Certificate, Ordinary Degree, Honours Degree, and Postgraduate by Discipline for 2013/14

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Higher Certificate (L6)</th>
<th>Ordinary Degree (L7)</th>
<th>Honours Degree (L8)</th>
<th>Post Graduate (L9 &amp; L10)</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture and Veterinary</td>
<td>0</td>
<td>169</td>
<td>36</td>
<td>0</td>
<td>205</td>
</tr>
<tr>
<td>Education</td>
<td>0</td>
<td>14</td>
<td>55</td>
<td>32</td>
<td>101</td>
</tr>
<tr>
<td>Engineering, Manufacturing and Construction</td>
<td>8</td>
<td>744</td>
<td>708</td>
<td>104</td>
<td>1,564</td>
</tr>
<tr>
<td>Health and Welfare</td>
<td>0</td>
<td>439</td>
<td>340</td>
<td>9</td>
<td>788</td>
</tr>
<tr>
<td>Humanities and Arts</td>
<td>2</td>
<td>34</td>
<td>748</td>
<td>176</td>
<td>960</td>
</tr>
<tr>
<td>Science, Mathematics and Computing</td>
<td>203</td>
<td>325</td>
<td>878</td>
<td>111</td>
<td>1,517</td>
</tr>
<tr>
<td>Services</td>
<td>46</td>
<td>721</td>
<td>140</td>
<td>2</td>
<td>909</td>
</tr>
<tr>
<td>Social Sciences, Business and Law</td>
<td>0</td>
<td>703</td>
<td>678</td>
<td>94</td>
<td>1,475</td>
</tr>
<tr>
<td>TOTAL</td>
<td>259</td>
<td>3,149</td>
<td>3,583</td>
<td>528</td>
<td>7,519</td>
</tr>
</tbody>
</table>
Breakdown of Levels of Whole-Time Equivalent Higher Certificate, Ordinary Degree, Honours Degree and Postgraduate Total Student Numbers for 2013/14

<table>
<thead>
<tr>
<th>Level</th>
<th>Actual</th>
<th>WTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT Higher Cert &amp; Degree (Levels 6,7,8,9,10)</td>
<td>7,694</td>
<td>7,517</td>
</tr>
<tr>
<td>Fáilte Ireland Apprentice</td>
<td>44</td>
<td>29</td>
</tr>
<tr>
<td>Other Apprentice</td>
<td>413</td>
<td>207</td>
</tr>
<tr>
<td>Part-Time &amp; Evening</td>
<td>5,967</td>
<td>1,732</td>
</tr>
<tr>
<td>Total</td>
<td>14,118</td>
<td>9,485</td>
</tr>
</tbody>
</table>

Student Whole-Time Equivalent Percentage Distribution – Cork Institute of Technology for 2013/14

- WT Higher Certificate (L6): 259
- Ordinary Degree (L7): 3,149
- Honours Degree (L8): 3,583
- Post Graduate (L9 & L10): 528

Breakdown of Levels of Whole-Time Equivalent Higher Certificate, Ordinary Degree, Honours Degree and Postgraduate Total Student Numbers for 2013/14

Student Whole-Time Equivalent Percentage Distribution - Cork Institute of Technology for 2013/14

- WT Higher Certificate (L6): 18%
- Fáilte Ireland Apprentice: 1%
- Other Apprentice: 2%
- Part-Time & Evening: 18%
- WT Higher Degree (Levels 6,7,8,9,10): 79%
3.11 Student Prizes

1. On 2 September 2013, Patrick Byrnes, Mechanical Engineering student was short-listed for the European Engineering and Technology SET Awards, which took place in London on 26 and 27 September 2013. His project title was “Automation of Femoral Implant Ultrasonic Cleaning and Blast Process”. Patrick was the second only CIT student ever to be short-listed and sole Irish student short-listed for the SET Awards this year. Patrick’s short-listing represents a major achievement for himself, CIT and Ireland.

2. Cristina Hurtado Uria, the first student registered on a Mathematics programme in CIT, successfully defended her PhD thesis on 10 September 2013. Cristina completed her thesis, titled “Evaluation, adaptation and validation of a model to predict grass growth in Ireland” under the supervision of Dr Declan O’Connor, Lecturer, Department of Mathematics, together with Dr Deirdre Hennessy and Dr Laurence Shalloo both of Teagasc Moorepark and Dr Luc Delaby, INRA.

3. Two students of the CIT Cork School of Music won awards at a competition organised and sponsored by the Grand Lodge of Freemasons of Ireland.
   - Alex Petcu-Colan (MA, Year 2) is the Irish Freemasons’ Young Musician of the Year 2013
   - Denise Crowley (BMus, Year 3) was awarded the Brennan Prize for being “the most promising musician in the 2013 competition”.

4. Students, Shane Fogarty and Patrick Byrnes won a National Award and were in a short-list of just three students for the Overall Winner Award of the 2013 MEETA Asset Management and Maintenance Association Finals. These Mechanical Engineering students competed in a large national entry before a distinguished industry and academic judging panel at the finals which took place on 17 and 18 October 2013 in Engineers Ireland Headquarters, Dublin.

5. Conferring of Degrees and Other Awards for the Faculty of Business & Humanities took place on 18 October 2013. There were four conferring sessions and 1,212 graduands obtained their parchments.

6. Conferring of Degrees and Other Awards for the Faculty of Engineering & Science and CIT Crawford College of Art & Design took place at the Bishopstown Campus on 21 October 2013. There were four conferring sessions. 1,022 graduands from the Faculty of Engineering & Science and 192 graduands from CIT CCAD obtained their parchments.

   Also there were two joint awards conferred:
   - BA (Honours) in Multimedia – Hochschule Darmstadt/CIT
   - BSc (Honours) in Biomedical Science – CIT/UCC

7. Conferring of Degrees on students of CIT Cork School of Music and CIT/UCC/CCAE (Cork Centre for Architectural Education) took place in CIT CSM on 24 October 2013. 54 graduands from CIT CSM obtained their parchments and 41 graduands from the CCAE also obtained their parchments for the CIT/UCC joint awards in
   - Master of Architecture
   - Bachelor of Science (Honours) in Architecture

8. In a well-attended Institute of Designers Annual National Graduate Awards Ceremony, held on 6 November 2013 in Limerick, which featured all of the top colleges in Ireland, two students from the CIT Interior Architecture Programme were awarded top awards. Ashlynn Walsh and Aleksandra Stanczyk both won the highest commended awards in the national interior architecture category.

9. At the prestigious Engineers Ireland Excellence Awards held in Dublin on 8 November 2013, Mechanical Engineering student, Patrick Byrnes, was presented with the Engineers Ireland Innovative Student Engineer Level 8 Award sponsored by Siemens.

10. Four CIT CSM students, Ed Creedon (viola), MacDara Lynch (double bass), Maria O’Connor (cello) and Louise Sheehan (flute) were accepted for the RTE National Symphony Orchestra’s Mentoring Scheme.
11. The Volunteer Abroad 2014 information evening took place on 12 November 2013 in the Gallery of the Student Centre, Bishopstown Campus. Three students shared their experiences volunteering during the summer.

- **Mara Muller-Tolk**, Fine Art & Design – volunteered with Help2kids in Tanzania & Malawi
- **Naomi Matabvu**, Analytic and Pharmaceutical Chemistry – volunteered with Habitat for Humanity in Zambia
- **Adam Peerbux**, Social Care – volunteered with EIL Ireland in Jaipur, India

12. The Final of the Fr Frank Maher Bursary Competition was held before a live audience and distinguished panel of judges on 15 November 2013 in Castleknock College, Dublin. This competition was open to instrumental students in their Leaving Certificate year and seven finalists were chosen nationally to perform in the final.

CIT CSM had two students selected, **Mairéad Hickey** a violin student of Adrian Petcu and **Martha Campbell** a viola student of Constantin Zanidache.

**Mairéad Hickey**, a Leaving Certificate student in Mount Mercy College was the worthy winner of the €2,000 prize by unanimous decision of the jury following seven performances of remarkable high standard. This scholarship was won last year by another CIT CSM string student **Síneád O’Halloran**, cello, who has gone on to study on scholarship in Dallas, Texas.

13. The Faculty of Engineering & Science held its annual prize-giving event in the CIT Student Centre on 28 November 2013. In excess of 50 prizes were awarded to students of the Faculty in front of an attendance of approximately 300 people. Students and their supporters, Faculty staff and industry sponsors participated fully in a very enjoyable event. The 10th anniversary of the awarding of the Cliona Magner Bursary was marked by the attendance of the Magner family and past recipients of this award.

14. The 2014 Ireland Skills national competition took place in CIT from 9 – 13 December 2013. This was a prestigious event for CIT and in particular for the Centre of Craft Studies. While the various crafts involved in the Ireland Skills national competition are shared between CIT and DIT, this year CIT was proud to host competitions in eleven crafts as follows:

- Carpentry, Joinery, Electrical Installations, Industrial Control, Metal Fabrication, Plastering, Construction Plant Fitting, Welding, Refrigeration, Mechatronics, and Automobile Technology.

The 2014 Ireland Skills winners in the various skills were presented with trophies at an Awards Ceremony on 13 December 2013. The Lord Mayor, Cllr Catherine Clancy, Minister Seán Sherlock TD, Minister for Research and Innovation and Cllr Noel O’Connor, Mayor of the County of Cork were in attendance.

15. Fourth year Sports & Exercise student, **Yvonne O’Byrne**, was the winner of the “Southside & District Sports Award” on 2 January 2014. This was in recognition of her selection, for the first time, on the Irish Senior Hockey Squad for their tour of Terrassa, Spain from 7 – 16 January 2014. The Award was sponsored by the Cork International Airport Hotel (main sponsors) in association with awards sponsor Gerald McCarthy and Media Partners RedFM. Yvonne is on the squad alongside her fellow CIT colleague **Cliodhna Sargent**.

**Yvonne** was awarded her 1st Senior International Cap on 12 January 2014 in Ireland’s 4-2 win against Spain. Cliodhna Sargent made her 133rd appearance at test level.

**Yvonne** is also the recipient of the Faculty of Business and Humanities Prize Giving Awards 2013. She achieved the highest grade in the Bachelor of Business in Recreation and Leisure Management programme.

16. 19 year old, 2nd year Marketing student, **Jane Mangan**, has quickly become established as one of the leading amateur riders in Ireland and many comparisons have been drawn between her and Ireland’s top female amateurs, Nina Carberry and Katie Walsh.

17. **Patrick Curran**, a first year student on the Bachelor of Business in Bar Management in the Department of Tourism & Hospitality was awarded 2nd place in the hard fought “National Hospitality Student Cocktail Challenge” on 5 February 2014, which was held in the RDS, Dublin. **Patrick** impressed the judges with his skill and presentation of a self-created cocktail called “The Honeypot”. Students from all over Ireland competed for this prestigious title.
18. There were some remarkable achievements by students of the Department of Civil, Structural and Environmental Engineering at the annual dinner of the Institution of Structural Engineers held on 7 February 2014 in Trinity College Dublin. The following awards were made:

<table>
<thead>
<tr>
<th>Award</th>
<th>Recipient</th>
<th>Project Supervisors</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Student Prize 2013</td>
<td>James Barry, graduate of the CIT BEng (Hons) in Structural Engineering</td>
<td>John J. Murphy and Kieran Ruane</td>
</tr>
<tr>
<td>The Technician Student 2013</td>
<td>Runner-Up Nick Bailey, CIT BEng in Civil Engineering</td>
<td>Andrew Macilwraith</td>
</tr>
<tr>
<td>The Technician Student Prize 2012 (Award held over from last year)</td>
<td>Andrew Meehan and Paul Glavin, CIT BEng in Civil Engineering</td>
<td>Ted McKenna</td>
</tr>
</tbody>
</table>

All graduates are continuing their studies in the Department; James is a student of the taught MEng in Structural Engineering, while Andrew, Paul and Nick are completing the BEng (Hons) in Structural Engineering.

19. The CIT Sports Scholarship Presentation Evening took place on 10 February 2014. The event saw 94 student athletes across fifteen different sports presented with a prestigious sports scholarship. The 94 scholarships awarded, included 35 CIT Freshers/Development, 37 CIT Senior, 14 Munster Council GAA, 7 CIT/Munster Rugby as well as a Cork Women’s FC scholarship.

20. Nineteen year old Jordan Bagot, a full-time student of the CIT CSM Bachelor of Music (Honours) was selected as a finalist in the 2014 Yamaha Music Foundation of Europe Scholarship Awards. Three students representing the cream of Piano talent from the Republic of Ireland’s conservatoires performed in the final round at the Katherine Brennan Hall at the Royal Irish Academy, Dublin on 11 February 2014.

21. Students from the Department of Construction on the MSc in Construction Project Management Programme won the CIOB Student Challenge Ireland Award on 13 February 2014. The students competed against student teams from construction related programmes from Institutes of Technology and Universities, both North and South of the Border. The four student award winners are Niall Mulcahy, Greg Hayes, Leon Sexton and Richard Long.

22. The Spring Conferring of Degrees and Other Awards took place in the NMCI on 13 February 2014. Graduands from the following were conferred:
   - National Maritime College of Ireland
   - Department of Mechanical, Biomedical & Manufacturing Engineering
   - Department of Tourism & Hospitality
   - Department of Civil, Structural & Environmental Engineering
   - Department of Applied Physics & Instrumentation
   - Department of Chemistry
   - Department of Electrical & Electronic Engineering

A total of 108 graduands obtained their parchments which included one Master of Engineering and five PhDs.

23. Two CIT CCAD Ceramic graduates, Sara Flynn and Nuala O’Donovan were selected to represent Ireland at the European Ceramic Context 2014. ECC2014 aims to show an overview of European contemporary ceramics with the work of two professionals, established ceramic artists selected from each of 30 participating European countries.
The Department of Mechanical, Biomedical and Manufacturing Engineering Outstanding Achievements Awards Presentation Ceremony 2014 took place on 20 February 2014. The Ceremony featured the 100 Poster Arc Poster Wall and 96 Page Published Pictorial Compendium. Awards were presented to the following:

<table>
<thead>
<tr>
<th>Title of Award</th>
<th>Recipient</th>
</tr>
</thead>
</table>
| Presentation of the Year 2014 Tim Sexton Memorial Award                        | *Patrick Byrnes, BEng*  
CIT First Class Honours Mechanical Engineering Degree Graduate  
Siemens Engineers Ireland Innovative Student of the Year  
- First Place and Outright National Level 8 Award Winner 2013  
Siemens Engineers Ireland Innovative Student of the Year  
- First Place and Outright National Level 7 Award Winner 2011  
Patrick holds the unique distinction of being the sole winner of both Level 7 and Level 8 National Awards |
| Presentation of the Year 2014 Richard Hale Memorial Outstanding Graduate Award | *John Roberts, BEng*  
CIT First Class Honours Mechanical Engineering Degree Graduate  
Enterprise Ireland Institution of Mechanical Engineers  
Speak Out for Engineering  
First Place and Outright National Award Winner 2013 |
|                                                                                 | *Tracy Cotter*  
CIT Biomedical Engineering Graduate  
Senior Clinical Engineer/Director Stylite Designs Ltd  
Design and Manufacture of Innovative Wheelchairs and Seating Solutions for People with Mild to Complex Disabilities |
| Presentation of Institution of Mechanical Engineers Awards                      | *Ken O’Connell, BEng*  
CIT First Class Honours Mechanical Engineering Degree Graduate  
Irish Research Council Engineering and Technology (IRCSET)  
PhD National Scholarship Award Winner 2013 |
| Presentation of the Frederic Barnes Waldron Best Student Award (Certificate and Medal) | *Shane Fogarty, BEng*  
CIT First Class Honours Mechanical Engineering Degree Graduate  
MEETA – Asset Managers Association National Student Awards 2013  
MEETA Overall Student Award First Place 2013 |
| Presentation of the Institution of Mechanical Engineers Project Award (Certificate and Medal) | *Alan O’Reilly, BEng*  
CIT First Class Honours Biomedical Engineering Degree Graduate  
First in Graduating Class 2013 |
| Presentation of the Institution of Mechanical Engineers Best Student Certificate | *Darren Dawson, BEng*  
CIT First Class Honours Biomedical Engineering Degree Graduate  
Cork Institute of Technology RISAM PhD Scholarship Award Winner 2013 |
25. CIT Mechanical Engineering PhD graduate, Dr Shona Cunningham, and Mechanical Engineering graduate, Shane Fogarty, were selected from a large international entry to Exhibit and Compete in the International 26th Annual Medical Engineering Student Project Competition finals in the Headquarters of the Institution of Mechanical Engineers, London on 27 February 2014.

They obtained the following awards:

<table>
<thead>
<tr>
<th>Graduate</th>
<th>Project Title</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shane Fogarty</td>
<td>Medication Capsule Thermoforming Process Improvement and Electrostatic Analysis</td>
<td>First Place – JRI Prize for Best Undergraduate Medical Engineering Project Exhibition and Poster Presentation</td>
</tr>
<tr>
<td>Dr Shona Cunningham</td>
<td>Carbon Dioxide Absorption and Channelling in Closed Circuit Rebreather Scrubbers</td>
<td>Second Place – Medimaton Prize for Best PhD Medical Engineering Project Exhibition and Poster Presentation</td>
</tr>
</tbody>
</table>


27. The Institute’s Annual Presentation of Institute Prizes Ceremony honouring its outstanding graduates of 2013 took place on 10 March 2014. The following students were presented with prizes:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title of Award</th>
<th>School/College</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Peter Berry</td>
<td>Best Bachelor Degree Student</td>
<td>School of Business</td>
</tr>
<tr>
<td>2 James Boyle</td>
<td>Best Bachelor Degree Student</td>
<td>School of Mechanical, Electrical &amp; Process Engineering</td>
</tr>
<tr>
<td>3 Tom Doyle</td>
<td>Best Honours Degree Student</td>
<td>CIT Cork School of Music</td>
</tr>
<tr>
<td>4 Casper Dudarec</td>
<td>Best Honours Degree Student</td>
<td>School of Mechanical, Electrical &amp; Process Engineering</td>
</tr>
<tr>
<td>5 Arantx Duque Barrachina</td>
<td>Best Taught Masters Degree Student</td>
<td>School of Science &amp; Informatics</td>
</tr>
<tr>
<td>6 Arantx Duque Barrachina</td>
<td>Best Overall Student</td>
<td>Cork Institute of Technology</td>
</tr>
<tr>
<td>7 Denis Fitzgerald</td>
<td>Best Bachelor Degree Student</td>
<td>CIT Crawford College of Art &amp; Design</td>
</tr>
<tr>
<td>8 Claire Flahavan</td>
<td>Best Taught Masters Degree Student</td>
<td>CIT Crawford College of Art &amp; Design</td>
</tr>
<tr>
<td>9 David Higgins</td>
<td>Best Bachelor Degree Student</td>
<td>National Maritime College of Ireland</td>
</tr>
<tr>
<td>10 Simon Irwin</td>
<td>Best Honours Degree Student</td>
<td>School of Science &amp; Informatics</td>
</tr>
<tr>
<td>11 Donal Keane</td>
<td>Best Honours Degree Student</td>
<td>National Maritime College of Ireland</td>
</tr>
<tr>
<td>12 Amy McCollum</td>
<td>Best Taught Masters Degree Student</td>
<td>School of Business</td>
</tr>
<tr>
<td>13 Gary Murphy</td>
<td>Best Honours Degree Student</td>
<td>CIT Crawford College of Art &amp; Design</td>
</tr>
<tr>
<td>14 Maria Murray</td>
<td>Marshall Hutson Award – Best Art Education Student</td>
<td>CIT Crawford College of Art &amp; Design</td>
</tr>
<tr>
<td>15 Donal O’Callaghan</td>
<td>Best Bachelor Degree Student</td>
<td>School of Science &amp; Informatics</td>
</tr>
<tr>
<td>16 Vivienne O’Mahony</td>
<td>Best Taught Masters Degree Student</td>
<td>School of Business</td>
</tr>
<tr>
<td>17 Alex Petcu-Colan</td>
<td>Best Taught Masters Degree Student</td>
<td>CIT Cork School of Music</td>
</tr>
<tr>
<td>18 Emma Power</td>
<td>Best Taught Masters Degree Student</td>
<td>School of Building &amp; Civil Engineering</td>
</tr>
<tr>
<td>19 Izabela Zawadska</td>
<td>Best Honours Degree Student</td>
<td>School of Business</td>
</tr>
</tbody>
</table>
28. In March 2014, the Faculty of Engineering & Science launched its STEM Achievement Awards programme. The aim of this programme was to recognise graduates whose work in science, technology, engineering and mathematics (STEM) had made a significant contribution in a professional context. The Faculty’s first recipient was Brian Nation, CIT Chemical Engineering graduate and Master Distiller at Irish Distillers in Midleton. The award was in recognition of his professional achievements.

29. As part of CIT Innovation Week, the APPrentice Competition ran for its third year and the showcase took place on 14 March 2014. The competition objective was to engage as many students across the Institute as possible and reward students with excellent ideas for smart phone apps. Richard Burke was the overall APPrentice Winner 2014 and is currently a 4th year BEng (Hons) Electronic Systems Engineering Degree student. His app design, Life Map, is an app that will help people with dementia retain more information about their family by making a clear visual map of the user’s life.

30. In relation to Innovation Week, there were a total of 28 events involving 2,400 participants and attendees. On 14 March 2014, the winners of the CIT Prize for Innovation were announced.

<table>
<thead>
<tr>
<th>Prize</th>
<th>Company Name</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Prize and title of CIT Entrepreneur(s)</td>
<td>Dairy Solve</td>
<td>Accounting &amp; Information Systems, Marketing &amp; International Business, Mechanical Engineering</td>
</tr>
<tr>
<td>Technology Development</td>
<td>Agri-Stop</td>
<td>Accounting &amp; Information Systems, Computing, Mechanical, Biomedical &amp; Manufacturing Engineering</td>
</tr>
<tr>
<td>Most Innovative</td>
<td>Quick Connections</td>
<td>Mechanical, Biomedical &amp; Manufacturing Engineering</td>
</tr>
<tr>
<td>Postgraduate/ Part-Time Award</td>
<td>AllerAid</td>
<td>Organisation &amp; Professional Development</td>
</tr>
<tr>
<td>Best Business Plan and Presentation</td>
<td>Retain The Rain</td>
<td>Accounting &amp; Information Systems, Mechanical, Biomedical &amp; Manufacturing Engineering</td>
</tr>
<tr>
<td>Social Entrepreneurship Award</td>
<td>Silent Interactions</td>
<td>Marketing &amp; International Business, Mechanical, Biomedical &amp; Manufacturing Engineering</td>
</tr>
<tr>
<td>Best Stand</td>
<td>First Stroke Control</td>
<td>Mechanical, Biomedical &amp; Manufacturing Engineering</td>
</tr>
</tbody>
</table>

31. Tomas Penc and Jackie Nevin, both 2nd year students in CIT CCAD, were chosen to exhibit their work in The Eight Gallery, Dawson Street, Dublin. This is a prestigious award and they beat off competition from students from all over the country. The Exhibition ran from 14 to 21 March 2014.

32. The Student Societies & Activities Awards took place on 26 March 2014 in the Student Centre, Bishopstown Campus. Students involved in societies and committees were presented with a Certificate of Merit by the Dean of Graduate Studies, Dr Eamonn Cashell in recognition of their contribution to societies throughout the year. Several special awards (Society of the Year, Rísam Uile, Best Academic Society, Best new Society, Most Improved Society, Best Event and Supreme Achievement) were also presented.

33. John Roberts was awarded First Place – Innovact European Student Innovation Campus Trophy and €3,000 Award at the European Student Innovation Finals which took place on 1 and 2 April 2014 in Reims, France. John’s final year mechanical engineering capstone project on the “advanced design, development, prototype manufacture and testing of the wheelchair enablement device PyraAid” arose from his third year multidisciplinary engineering and business group project. There was just one prize to be awarded from 20 very impressive finalists (quite a number of these were multidisciplinary teams at PhD and post-PhD level with very advanced high level projects – the cream of Europe). John’s achievement followed a three stage international process involving initial submission, semi-final stage advanced submission, and finalist adjudication.
34. The Speak Out for Engineering Project Exhibition Finals took place on 3 April 2014 in University College Dublin. First Place Award and First Prize of a 3D Rapid Prototype Printer was won by CIT student, Shane Fogarty, for his project titled “Medication Capsule Thermoforming Process Improvement and Electrostatic Analysis”.

35. The Students’ Union held the Annual Union Council Awards on 7 April 2014. Class Representatives were presented with Certificates of Merit for their voluntary contribution to campus life by Dr Barry O’Connor, Registrar & Vice President for Academic Affairs and Dr Dan Collins, Academic Administration & Student Affairs Manager. The SU Officers presented five Class Representatives, who had been nominated by their class members, with awards in recognition of their “Outstanding Voluntary Contribution” throughout the academic year.

The award recipients were:

David Brady, Michelle Carroll, Peter Glavin, Martin Healy, and Una McDermott.

36. The Institute’s International Student Society and Music Society were announced as winners on 10 April 2014 at the BICS National Societies Awards hosted by Queen’s University. ISS picked up the “Best Society Award” in academic, cultural and social field and Music Society as “The Most Improved Society” for their positive transformation over the past year. It is a significant achievement for both groups and for CIT, picking up two awards in what are highly contested and coveted honours.

37. CIT CSM student, Clara Daly-Donnellan (Trombone), was the youngest ever winner of the RDS Music Bursary. The 18 year old trombone player from Cork City was awarded the €10,000 Bursary at the RDS on 29 April 2014.

38. On 30 April 2014, the 8th annual Gradireland Graduate Recruitment Awards evening took place in The Mansion House, Dublin. It attracted over 500 guests to the spectacular gala awards evening and was attended by the major stakeholders in the graduate recruitment industry.

Róisín O’Grady and Treasa Morgan from the CIT Career Service won “the Silver Award” in the Employability Award category for their “Employability Works Programme”, which was developed and delivered in collaboration with the Faculty of Engineering and Science. This programme provides Employability Skills Education to third, final year, and postgraduate students within the Faculty of Engineering and Science in CIT. It specifically focuses on building students’ confidence around the transition from third-level into the workplace. This year was the first time that the Service won an award at this prestigious event.

39. The CIT CCAD Department of Media Communications BA (Hons) in Visual Communications students designed a new brand for Cork University Hospital’s Sustainable Healthcare Programme under the direction of Ms Valerie Renehan, Lecturer, Graphic Design and Multimedia, with the support of Sustainable Energy Authority of Ireland (SEAI). Eight student groups presented projects with a professional pitch presentation to CUH representatives, of which three received awards from the CEO of CUH. The winning team brand SEECO, took the first place award. CUH is delighted to have the opportunity to work with CIT and SEAI on this important initiative. The creative brief outlined how the brand needed to engage with a wide audience and explained the hospital’s purpose in its energy efficiency and sustainable healthcare programme. The new brand will be central to all communications and activities and will work alongside established energy brands, for example, An Taisce Green Campus Award, SEAI, Power of One, Health Cities, and EcCoWell. This initiative is a culmination of the partnership approach that developed between CUH and CIT.
CIT’s Sports Awards Presentation took place on 30 April 2014 in the Student Centre, Bishopstown Campus. Guest Speaker was former Cork hurler and CIT graduate, Conor Cusack.

These awards have been running since 1993 and they provide the ideal opportunity for the Institute to recognise students who have excelled in their chosen sport throughout the year. The Sports Awards also afford the opportunity to recognise our graduates and Clubs. The following awards were presented:

<table>
<thead>
<tr>
<th>Name</th>
<th>Sport</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark O’Leary</td>
<td>Men’s Basketball</td>
<td>Accounting 3</td>
</tr>
<tr>
<td>Emma Farmer</td>
<td>Ladies Football</td>
<td>Recreation and Leisure 3</td>
</tr>
<tr>
<td>Shane O’Driscol</td>
<td>Rowing</td>
<td>Construction Management 4</td>
</tr>
<tr>
<td>Michael O’Sullivan</td>
<td>Hurling</td>
<td>Sustainable Energy Technology 4</td>
</tr>
<tr>
<td>Paul Deasy</td>
<td>Men’s Soccer</td>
<td>Business Marketing 4</td>
</tr>
<tr>
<td>Róisín Ormond</td>
<td>Ladies Rugby</td>
<td>Biomedical Engineering 1</td>
</tr>
<tr>
<td>Laura Burchill</td>
<td>Ladies Football</td>
<td>MA in Accounting</td>
</tr>
<tr>
<td>Karol Pawlak</td>
<td>Volleyball</td>
<td>Multimedia 2</td>
</tr>
<tr>
<td>Katie Galvin</td>
<td>Camogie</td>
<td>Biomedical Engineering 1</td>
</tr>
<tr>
<td>Pearse O’Flynn</td>
<td>Sailing</td>
<td>Business Information Systems 2</td>
</tr>
<tr>
<td>Rachel O’Shea</td>
<td>Athletics</td>
<td>Recreation &amp; Leisure 2</td>
</tr>
</tbody>
</table>

**Fresher of the Year:**

Jean O’Sullivan  Ladies Football  Agriculture 1

**Graduate of the Year:**

Michael Fennelly  Kilkenny Senior Hurler  -

**Special Achievement Awards:**

Conor Skehan  Racquetball  Common Entry Engineering 1

Yvonne O’Byrne  Hockey  Sport & Exercise 4

**Club of the Year:**

Hurling Club
41. Department of Tourism & Hospitality Graduate Diana Dodog was crowned with the prestigious title of “MasterChef Ireland” on 7 May 2014 winning €25,000 in prize money. Diana now owns her own street kitchen and catering business, The Food Depot, along with her husband Michael O’Donovan – who also graduated from the department.

42. The CIT CCAD Department of Media Communications held a “Multimedia Symposium” hosted by the final-year students of the BA (Hons) in Multimedia in Berkeley Building, Bishopstown Campus on 15 May 2014. This event showcased the work created by the students through interactive demos, posters and short informal oral presentations. All of these projects focused on utilising digital technology to enhance the visitor experience in heritage centres around the Cork region, including: The Cork City Gaol, The Titanic Experience, CIT Blackrock Castle Observatory, and The South Presentation Convent.

43. The CIT CCAD Department of Media Communications BA (Hons) in Visual Communications students hosted their graduating exhibition “Contrast” in the James Barry Exhibition Hall, in CIT’s Bishopstown Campus from 29 May to 10 June 2014. Those in attendance were treated to a wide variety of displays. Innovative ideas included a revival of traditional Irish social events that aimed to engage the older community, online applications that helped people suffering with Seasonal Affective Disorder (SAD), a festival showcasing affordable healthy eating, and educational activity packs for children which focussed on animal welfare.

44. The annual CIT CCAD Degree Show opened on 6 June 2014. The BA (Hons) in Fine Art and BA (Hons) in Contemporary Applied Arts Degree Show promoted Ireland’s future artists, who have honed their skills in many different areas over the last four years. This year’s show “Na hOibreacha” was held at the CIT CCAD campus and continued until 15 June. This was the 22nd year of the CIT CCAD Degree Show, which is a cultural and social highlight of the year in Cork City. Sixty-two students exhibited work in a variety of media including Ceramics, Glass, Drawing, Painting, Print, Film, Photography, Sculpture, and Textiles.

45. The Chiral Quartet, comprising four students from the CIT CSM’s MA programme (Hugh Murray & Christine Kenny, violins, David Kenny, Viola, and Maria O’Connor, cello), represented CIT at the “KBC Great Music in Irish Houses” festival in Dublin on 14 June 2014. This is Ireland’s longest running chamber music festival. They were one of four groups of young players selected to compete for a bursary and concert series next year as part of the Festival’s new initiative “Support Act – The Residency”. The programme culminated in a concert at the Botanic Gardens and they were declared the winners.

46. Two students from Mechanical Engineering won the National Skills Competition in Mechatronics which was a team event. Aaron Cronin and Brian Healy scored well ahead of their competitors. The event was held on 19 and 20 June 2014 in Ballymena and the level of the competition was at a very high standard, similar to that of the European Skills Competitions.

47. The Conferring of Degrees and Other Awards took place on 19 June 2014 in the National Maritime College of Ireland and 64 graduands obtained their parchments.
3.12 Student Ombudsman

The Governing Body approved the Student Grievance Policy at its meeting of 1 July 2010. This policy required the establishment of a new role of “Student Ombudsman” in CIT and set out terms of reference for this role reporting to the President.

The Student Ombudsman advises and assists students with the resolution of difficulties, complaints or grievances involving staff or services of the Institute in an informal manner.

The services provided by the Student Ombudsman may refer relevant student issues for resolution by those services as appropriate.

All enquiries to the Student Ombudsman are confidential, except in cases of serious threat to life or property.

Appointment of Student Ombudsman

Nominations were sought from the academic staff. The appointment of the following was made by the President following a review which included the Registrar & Vice President for Academic Affairs, and the President of the Students’ Union.

• Mr Paul Sliney, retired member of the academic staff appointed from 24/9/2010 to 31/1/2012.
• Mr Kevin Kelly, retired member of the academic staff appointed from 1/2/2012 to 31/1/2013.
• Mr John P. Murphy, retired member of the academic staff appointed on 1/2/2013.
4. Research & Development

4.1 Industry Liaison Activities

4.2 Research Activities including summary of the activities of the individual research and innovation entities

4.3 Research Publications

4.4 External Development Links

4.5 International and EU Activities

4.6 Campus Development

4.7 Safety & Facilities Management
4.1 Industry Liaison Activities

The Industry Liaison Office is an important first point of contact for industry and is involved in a wide range of activities:

1. Company start-up support
2. R&D Support and Company enquiries
3. Technology Transfer
4. Campus Entrepreneurship
5. Local, Regional & National Activities

4.1.1 Company Start-up Support

The Institute is committed to assisting entrepreneurs and new business start-ups in the Region. Supports and opportunities are provided to existing companies at different stages of company development to progress to the next level. This is done mainly through the Rubicon Centre, and the Programmes run from the Centre, as well as through the Technology Gateways Programme (previously the Applied Research Centre (ARE) Programme).

Rubicon Centre

The Rubicon Centre accommodates 220 people, working in 60 start-up companies. This is the largest concentration of start-up companies on the island of Ireland. Over 50% of the companies based in the Rubicon have links with CIT. These links are in the form of student placements, student projects or joint research and development.

The Rubicon Centre continued to run its development programmes throughout the year.

- **New Frontiers (Phase 1)**

CIT continued to run the New Frontiers Phase 1 programme throughout the year, which helps potential entrepreneurs to make decisions regarding the feasibility of their idea and gives insights into the essential elements involved in creating a new enterprise. At the end of the programme, each participant is given the opportunity to present their business plan to a panel of experts and support agencies. Participants also obtain advice and support on where to look for further assistance in developing their business idea. On completion of the programme, approximately 80% continue developing their business concept either on a part-time or full-time basis.

- **New Frontiers (Phase 2)**

The New Frontiers Programme has a significant impact in the Cork area in terms of business start-ups. In turn, many of New Frontiers “graduate” companies will continue to hire CIT graduates, be a regular source of placements for CIT students and will have collaborative and contract research projects with CIT.

In January, Mr Seán Sherlock TD, Minister for Research & Innovation, officiated at the Annual Awards and Showcase. The awards ceremony marks the end of the participants’ year on the programme. The 12 participants came from a range of sectors including, software, e-learning, digital media, food, agribusiness, and consumer products.

Over 200 people attended the 2014 New Frontiers Showcase & Awards drawn from the regional development bodies, current and past programme participants, the investment community, the higher education community and the wider business community in the South West region. Sensory Research (2002 Genesis Enterprise Programme) was awarded the 2014 Alumni Award. The Award is presented annually to an alumnus of the Genesis Enterprise/New Frontiers Programmes who has made substantial progress in their commercial field or has contributed in a significant way to the economic development of knowledge-based businesses in the region. The company currently employs 30 people in Cork and Chicago, USA.
**Female Entrepreneurship**

CIT continues to be a leader in the area of female entrepreneurship. PINC continued to run during 2013/2014. PINC is an intensive programme for female entrepreneurs who want to take their business ideas to the next stage. The programme is run part-time over 10 weeks, allowing participants to balance their family commitments while at the same time plan and develop their business ventures. The idea behind PINC is to allow participants the opportunity to focus on their business idea in a structured group environment, whilst at the same time offering one to one mentoring on all aspects of their business. Currently the percentage of companies led by females in the Rubicon is 25% which is a very high percentage. PINC is one of the main contributors to this high percentage.

In addition to PINC, CIT secured funding in July 2014 to run Exxcel which is an accelerated female entrepreneurship programme for those in the STEM sectors with a heavy emphasis on mentoring. This programme will be rolled out in 2014/2015.

**EU Projects for Start-Ups**

The Industry Liaison Office is involved in an EU project TESLA. TESLA is a European cooperation project which focuses on innovation supports for early stage technology companies. With partners in the Border, Midland and Western Regional Assembly-based in Roscommon, Belgium, France, Wales, Germany and Holland, CIT is responsible for actions related to internationalisation, new product development, and entrepreneurship in large companies.

**4.1.2 R&D Support & Company Enquiries**

The Industry Liaison Office is responsible for promoting the integration of the Institute with industry in the region and is viewed as being one of the key drivers of the Institute’s relationship with industry by providing assistance and support for industry in the following areas:

- Facilitation of research and development collaborations, where appropriate
- Presentation at specialist seminars and information evenings on new and emerging technologies
- Acting as an outreach and point of contact, including assistance in organising one to one meetings
- Being the point of contact for IDA Ireland and responsible for the internal (CIT) organisation for IDA itineraries when overseas companies (FDI) are looking at the region as a potential location in which to establish a base

**Innovation Vouchers**

The Industry Liaison Office is the point of contact for Innovation Vouchers. The Institute continues to be one of the top five providers of expertise under the Innovation Voucher programme scheme. Since 2007 CIT has successfully delivered 165 Innovation Voucher projects to small and medium companies nationally. Innovation Vouchers are a very important first step to get companies working with the Institute on an R&D project. Many of the voucher interactions have led to bigger follow-on projects with the companies.

**4.1.3 Technology Transfer**

The dedicated Technology Transfer resource continues to play an integral role in supporting the increased interaction with industry in all departments across the Institute.

Funding of €150,000 was secured from Enterprise Ireland to continue this activity. This is done through a UCC-led consortium which also includes Teagasc. The consortium, approved by Enterprise Ireland ensures that CIT’s TTO Office and UCC’s TTO office work closely and the more experienced UCC TTO office provides on-going support to the CIT TTO Office.

In 2013, there were over 150 interactions with industry which required agreements such as non-disclosure and confidentiality agreements to be drafted/ signed. The majority of this activity was generated through the two Technology Gateways, TEC and CAPPA, as they continue to increase the level of activity with industry in the region.

During the 2013/2014 academic year, the following technology transfer activity was achieved:

- Licences, Options 5
- Invention Disclosures 20
- Patents 5
- Spin-Out 1

**4.1.4 Campus Entrepreneurship**

CIT is increasing its undergraduate activity in the area of entrepreneurship year on year. The Industry Liaison Office has played a leading role in this area along with a growing number of academic departments. The Rubicon Centre is a huge asset in pushing this agenda forward as well as the Hincks Centre for Entrepreneurship Excellence. The Industry Liaison Office has been involved in the ACE (Accelerating Campus Entrepreneurship) project which is funded under the Strategic Innovation Fund from 2008 to
2014 and continues to be involved in the national network that has replaced ACE, CEEN (Campus Entrepreneurship Enterprise Network) www.ceen.org.

Cork County and City Enterprise Boards CIT Prize for Innovation 2014

The 12th CIT Prize for Innovation took place in the Nexus Student Centre in March 2014 on Innovation day with a keynote address from Pat Falvey the world renowned Adventurer and Corporate Speaker.

The 37 project teams (107 students) who participated in the 2013/2104 competition were from the following departments:

The student “entrepreneurs” showcased their businesses during Innovation Day and a total prize fund of €10,000 was awarded to the winning entries. The Cork County and City Local Enterprise Offices sponsored the competition.

The showcase and awards of the Institutes’ “APP-rentice competition, which is organised by the School of Business, was also held on Innovation Day to coincide with the Prize for Innovation ceremony.

All-Ireland Student Entrepreneur Awards

As a winning CIT team won the title of “Student Entrepreneurs of the Year” in 2013, CIT hosted the event in 2014. The dining hall in the Tourism and Hospitality building was the venue for the finals where colleges from all over Ireland, North and South, took part in the event. CIT had one project in the top 5 but did not manage to retain the title.

Enterprise Interns

The Industry Liaison Office has two Enterprise Interns promoting entrepreneurship amongst the student population. One Intern is based in the Industry Liaison Office and the second is based in the Rubicon Centre. Both interns have access to the Academic Staff and to the staff of the Rubicon Centre and the 60 start-up companies based there. The Interns spend 20 hours a week promoting entrepreneurship on campus while pursuing a Masters in CIT. The Interns ran a number of entrepreneurship competitions during the year as well as working with the Creativity Innovation and Teamwork (CIT) module coordinators. Through collaboration with the CIT module coordinators over 450 first year students got an insight into idea generation and over 250 got the opportunity to present a business idea to the Rubicon Centre team. This exposure to the innovation ecosystem to the students early on in their time in CIT is having a very favourable result in terms of campus entrepreneuships. One in three enquiries to the Rubicon Centre are from students (annually approx. 400 enquiries are received by the Rubicon).

Student Inc.

Over the summer months six student projects attended the Rubicon full-time developing their business ideas. During this time they attended weekly workshops, covering many topics that enabled them to produce a completed business plan by 1 September. The students received mentoring from industry, financial assistance from a number of academic departments, and office accommodation from the Rubicon. The Student Inc. programme was completed in September 2014 when the student businesses that were created over the summer months were presented and launched to the Senior Staff. The students each received academic credit for their time on Student Inc. in 2014 (5 credits at Level 8).
Entrepreneur in Residence
The appointment of Kieran Moynihan as CIT Entrepreneur in Residence in September 2010 has continued to have a very positive impact on CIT students, staff, and the companies based in the Rubicon Centre. As well as providing guidance and support to the companies in the Rubicon pitching for investment Kieran has met with CIT staff and students across the campus promoting innovation and entrepreneurship. Kieran has also represented the Institute at regional and national events, e.g. National Guidelines on Entrepreneurship Education.

Breakfast Links
A number of “Breakfast Links” were held during the year whereby staff from various academic departments were hosted by the Rubicon for an informal breakfast networking event. The event was an opportunity to highlight the supports available within the Rubicon as well as a snapshot of the companies based there. Two or three companies working in a related discipline to the visiting academic Departments provided overviews of their activities/businesses. The Academic Departments summarised the type of programmes delivered in their areas and staff skills available. The “links” events gave the academic staff, the Rubicon staff, and the Rubicon client companies the opportunity to explore mutually beneficially areas for cooperation including student placements, student projects, and R&D opportunities.

Innovation Week
Innovation Week at CIT was held from 10-14 March 2014 and in total 28 events were held during the week. Activities were held at the Bishopstown Campus, CIT CCAD and CIT BCO. Approximately 2,500 people attended events or entered one of the many competitions during Innovation Week.

4.1.5 Local, Regional and National Activities
The Industry Liaison Office acts as a point of contact and undertakes a large amount of networking with regional, national, European agencies/organisations, such as:
- Cork City and County Councils
- Cork Chamber of Commerce
- IBEC
- it@cork
- IDA
- Enterprise Ireland
- Current and Potential EU project partners
- Local Enterprise Offices (Cork City, North Cork, South Cork and West Cork)
- CEEN (Campus Entrepreneurship Enterprise Network)

Cork Innovates
Cork Chamber established a forum, Cork Innovates, to examine how to drive entrepreneurship in the region. The Institute has representatives on each of the three sub-committees of this organisation. Given the current economic climate, it is vital that Cork creates a favourable environment for the growth of entrepreneurship and the development of indigenous businesses that can potentially create employment and increase Ireland’s exports. The objective of the Committee is to develop a cohesive and clear message from all stakeholders to promote a culture of entrepreneurship and support for the region’s entrepreneurs.

Cork Chamber Transport and Infrastructure Committee
The Industry Liaison Office continues to play an active role in the Transport & Infrastructure Committee whose work is focused on supporting and advancing strategic transport & infrastructure policy recommendations such as Connectivity (Rail, Aviation, Ports & Bus), Sustainable Transport, Utilities, Waste and Planning and International Telecommunications Connectivity.

CIT CoderDojo
CoderDojo (https://coderdojo.com) is a worldwide movement provided on a totally voluntary basis delivering a technical grounding and education to young children in writing programme code. CoderDojo groups are established in various Continents. CoderDojo also emphasises the need for young people to progress to become mentors themselves - based on their technical competence and irrespective of their age.

CIT initiated a CoderDojo chapter in March 2012. It is run by a group of volunteers from CIT staff and students from across the Institute. The Rubicon Centre and NIMBUS provide the venue for the club on a weekly basis and the Faculty of Engineering and Science provides financial assistance for consumables.

Since opening its doors over 140 children have taken part in the CoderDojo with 50 turning up on a weekly basis. There is a waiting list of 130 children to join the CIT CoderDojo, with many of these on the list for a year or longer.

In the last 12 months the following was achieved:
- 2014: Two of our young coders got to the finals of the ICS National Scratch Competition, with one of the children, aged 6, being awarded a special award
- Participated in EMC Vex Robotics Competition
- Visit from Simon Coveney, Minister for Agriculture, Marine and Food
- Visit from James Whelton Joint founder of Coder Dojo
4.2 Research Activities including summary of the activities of the individual research and innovation entities

4.2.1 Research and Development Activity – Institutional Highlights

CIT’s most recently constructed Research and Innovation Building was opened on 4th June 2014 by Mr Seán Sherlock TD, Minister for Research and Innovation. Known as CREATE (Centre for Research in Advanced Therapeutic Engineering) the building provides a state-of-the-art multidisciplinary environment for biological scientists, chemists, physicists, biomedical engineers, and their associated industry partners and academic collaborators.

The total research and innovation income for 2013/14 was €19.7m.

The following table reflects the distribution of non-academic staff and research postgraduates involved in research and innovation activities.

<table>
<thead>
<tr>
<th>Classification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD Students</td>
<td>111</td>
</tr>
<tr>
<td>Research Masters</td>
<td>69</td>
</tr>
<tr>
<td>Contract Researchers</td>
<td>73</td>
</tr>
<tr>
<td>Research Programme Managers</td>
<td>11</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>264</strong></td>
</tr>
</tbody>
</table>

CIT received Delegated Authority for research at Level 9 across the whole Institute.

PhD scholarship numbers continued to increase, with an additional 27 registrations, resulting in the highest number of PhD registrations recorded. Funding for the students came from Risam Scholarships (10), Irish Research Council Scholarships (6), SFI (7), and other sources.

Institute researchers published approximately 70 international peer-reviewed conference papers, and 150 peer-reviewed journal papers. They continued their strong engagement with industry, being involved with over 130 companies in R&D projects; and completed over 240 undergraduate projects with industrial partners.

The Institute maintained a strong performance in EU-funded projects with an income of approximately €2m to CIT researchers. On 27 May 2014, the CIT-Tyndall MOU was extended for another five years.

The Research Office coordinated the development of the new Research and Innovation Strategy 2014-2016 and worked on the development of the Researcher Career Framework with the HR Office.

4.2.2 CREATE Research Building

CREATE was opened on 4th June 2014. The concept is to assemble a multidisciplinary collaborative research team in the same state-of-the-art building, combining the three areas of biosciences, biomedical technologies, and advanced bio-imaging to drive research in Advanced Therapeutic Engineering. The investment in CREATE supports world-class research in key priority areas that support economic and social development in Ireland. These areas, identified in the National Research Prioritisation Report include improved diagnostics, better therapeutics, smarter and more effective biomedical devices, and through the platform technology of Photonics, advanced imaging and optical communications technologies. By concentrating on sectors of industrial strength CREATE thereby aligns itself to areas of increasing national and international importance.
CREATE supports major government initiatives, notably the Action Plans for Jobs, through its own innovation pipeline, involvement in initiatives such as the Health Innovation Hub, its approach to high performance manufacturing of biomedical devices which has already spawned a startup company that is now housed within CREATE, and its participation in two of the SFI-funded Research Centres (IPIC and APC). Its researchers are also leaders in the national drive towards Structured PhDs, being the lead of the HEA-funded “Ed4Life” structured PhD in the Lifesciences (in association with UCC and Teagasc) and a partner in the “INSPIRE” nanoscience structured PhD (both also funded under the PRTLI Cycle V programme). Graduates from these programmes will not only have a base of knowledge excellence, but will possess the skills necessary in today’s fast-changing and diverse marketplace.

CREATE researchers have strong links with counterparts across the Irish higher education sector, with particularly strong regional links including the Alimentary Pharmabiotic Centre in UCC and via the CIT@Tyndall collaboration which sees some 12 photonics researchers and 7 photonics PhD students based at the Tyndall National Institute.

Amongst the international opportunities in which CREATE will make an impact is the Horizon 2020 programme, an €80bn funding programme designed to support the drive to turn Europe into the world’s most innovative economic and social area. The Government has set a target for Ireland to win €1.25bn, twice that achieved under the predecessor to H2020, the FP7 programme. CREATE will contribute to the effort to reach those targets by addressing some of the biggest societal challenges of the 21st century, including the “Grand Challenges” of food safety, globalisation of communications and healthy living.

By their very nature “Grand Challenges” require society to come up with new ways of solving problems. CREATE is designed to do that through an inherently multidisciplinary approach which involves not only a range of different academic disciplines working together in close proximity (biological sciences, chemistry, physics and biomedical engineering), but also via the involvement of industry, local government and the health services, particularly through close links with a number of hospitals.

Continuing the long tradition in CIT of engaging closely with industry, CREATE is already working with many indigenous companies from startups to SMEs and also with MNCs. It provides the perfect environment in which companies can locate teams within the building, alongside their CREATE partners. CREATE will support the transition to a new export-led economy based on enterprise and innovation.

At the same time, CREATE will support the next generation of scientists, engineers and entrepreneurs by offering opportunities to undergraduate students to spend time in the labs during their project work. CREATE researchers will use their expertise to enhance their own lecturing to undergraduates and ensure a close connection between teaching, research and innovation.

4.2.3 Ed4Life and INSPIRE Structured PhD Programmes

These discipline-specific Structured PhD programmes support the continued progression to mainstream Structured PhDs which is due to be implemented across CIT in 2015. This was achieved by the development of 11 modules which can be used as part of a coherent suite that both supports the postgraduate researcher in their research and provides them with skills that are needed within the external workplace, be that academic or enterprise.

4.2.4 CIT@Tyndall

The MOU between CIT and the Tyndall National Institute was extended for another five years and signed by the Presidents of CIT and UCC and the CEO of Tyndall. The MOU seeks to strengthen the close cooperation between the two institutions, notably in the areas of:
- Photonics
- Micro/Nanoelectronics
- Microsystems, including Medtech/Biomedical
- Energy
- Embedded Systems and Networks

The new MOU also includes a new objective to work together in communicating the results of our research and innovation activities amongst schools and the general public.

4.2.5 Research Office

In addition to the daily supports provided by the Research Office to the research community, the following highlights are noted:
- Organised and ran the European Science Parliament with 80 second-level students learning about the importance of science-informed democracy over 3 days in January 2014.
- Provided significant input to the Level 9 Delegation of Authority visit in June 2014, the outcome of which was DA across the entire Institute.
• Produced a new Research and Innovation Strategy 2014-2016, organised a series of feedback sessions from staff in the Faculties and Colleges and also from amongst the research community.
• Along with the R&I Committee of the Academic Council, developed a new and expanded Code of Good Practice in Research.
• Continued the development of the Research Management System which is due for launch in 2015.

4.2.6 Summary of the activities of the individual research and innovation entities:

Research Entity Name: NIMBUS Centre

1. Description
The NIMBUS Centre is Ireland’s only research centre devoted to the field of networked embedded electronic systems. Expertise is focused on the following industrial application areas:
• Smart Systems – embedding of electronics in everyday objects, materials and structures to create aware environments. The Internet of Things
• Energy Management – building energy management, demand side management, intermittency analysis and control, smart micro-grids
• Water Systems Management – remote sensing and monitoring, water network management systems
• Applications in Tourism, Agriculture and Health

The NIMBUS Centre has three divisions: Research, Learning and Industry.

The Research division is leading developments in the ‘Internet of Things’, and is heavily involved in a number of National and EU projects in this space.

The Learning division has a number of PhDs, Masters and workplace PhDs ongoing at any time.

The Industry division is known as the TEC Gateway which has completed over 250 industry projects and continues to develop innovative ideas for spin-outs and assist SMEs and large corporations with technical expertise.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency) &gt;€100k</td>
<td>5</td>
<td>FOGMon EI €263K AquaMetrics EI €365K Ultrasonic Unblocker EI €168K WatNos EI €300K ROWBUST IERC/EI €100K</td>
</tr>
<tr>
<td>Research Funding Projects awarded (EU/intl funding agency) &gt;€100k</td>
<td>4</td>
<td>‘MANpower’. EU. €578K ‘DEWI’ EU ARTEMIS €390K ‘TRIBUTE’EU €350K ‘Energy in Time’ EU FP7 €350K</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>35</td>
<td>TEC Gateway projects</td>
</tr>
<tr>
<td>Newspaper articles, book reviews</td>
<td>17</td>
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<tr>
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<tr>
<td>Seminars, colloquia hosted</td>
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<td>Conferences chaired/hosted</td>
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</tr>
<tr>
<td>International Research visits</td>
<td>30+</td>
<td></td>
</tr>
</tbody>
</table>
3. Research Highlights

a) The **Energy in Time project** aim is to develop a Smart Energy Simulation Based Control method which will reduce the energy consumption in the operational stage of existing non-residential buildings, resulting in energy savings of up to 20%.

The project is funded by the EU 7th Framework programme under the objective: *EeB.NMP.2013-4 Integrated control systems and methodologies to monitor and improve building energy performance*. The focus is on simulation-based control for Energy Efficiency building operation and maintenance in existing building stock. NIMBUS is 1 of 13 partners with the project, which started in autumn 2013 and which will run for 4 years.

Simulation-based control for Energy Efficient building operation and maintenance – develop a smart energy simulation-based control method to reduce the energy consumption and energy bill in the operational stage of existing non-residential buildings.

NIMBUS Role: Using the NIMBUS NiCoRe distributed computation platform to design and develop the Energy in Time communication and integration platform.

b) **TRIBUTE**: Building Energy Performance Simulation (BEPS) analysis tends to show a large discrepancy with real energy performance. Most cases are due to gross mistakes rather than fundamental inadequacy of available technology and methods.

TRIBUTE aims at minimising the gap between computed and measured energy performances through the improvement of the predictive capability of a state-of-the-art commercial BEPS. TRIBUTE will extend the use of this tool to the commissioning and operation stages of a building. For existing buildings, M&V techniques will be developed and deployed to connect the BEPS model in real time to the pivotal wireless sensing and control systems of a monitored building. This involves modelling building systems to a higher fidelity than is done today, developing technology for on-line identification of building key parameters, and automatically adapting the on-line, real-time BEPS to the actual building’s state. Subsequent Energy Efficiency Diagnostic Rules and optimisation methods will provide cost effective and corrective retrofit actions accordingly. The methodology and tools will be evaluated in the context of three different building types and locations.

4. Case Studies

**ServusNet**

**The Need**

ServusNet Informatics, a Cork-based software company, specialises in wind farm operations management. Their existing solution provides operational intelligence and decision support capability to wind farm owners and operators. ServusNet identified an opportunity to combine their turbine data analysis expertise with meteorological data to develop an Enhanced Wind Energy Forecasting solution. Collaboration with the TEC Gateway at CIT allowed ServusNet to secure funding from Enterprise Ireland to develop and commercialise a forecasting solution which can achieve significantly enhanced accuracy of wind energy forecasting.

The project combined ServusNet’s turbine intelligence with best-in-class numerical weather prediction and turbine modelling expertise. The project team comprised leading international academic experts in wind forecasting, turbine modelling and energy management from UCC’s Sustainable Energy Research Group, NUIM and CIT’s TEC Gateway, and project management and software development from CIT’s NIMBUS Centre. A solution was developed which allows producers to earn more revenue by selling more effectively into wholesale electricity markets.

**The Result**

- Wind forecasts downscaled to individual turbines
- Historical, real time & planned turbine availability profiles rather than simple average values
- Competing wind forecast providers selected based upon their actual performance at specific site
- Closed-loop statistical calibration of forecast versus actual for both wind & energy values
- Probabilistic energy forecasts
- Global hosted solution requires no on-site hardware and caters for all major turbine models
- Extracts data from existing asset databases and exports to incumbent IT systems or through web browser

**Alucast [€5K innovation voucher project]**

Alucast wished to further refine the design of a prototype air to air heat exchanger which they had developed. An Enterprise Ireland innovation voucher was used to complete a thermal analysis of the performance of the device while deployed in a live environment. Having shown promising results, the device was carried onto phase 2. Phase 2 of the project involved refining the design of the device and adding a control system which will increase the operation efficiency of the device by minimising the operation during periods where the external condition are not optimum for the induction of room temperature air.
Extensive testing of the device was carried out during the course of the voucher project. A report of the system performance was supplied to the client, which will allow them to proceed with a product that will deliver the required performance to the end user. The test report includes results from a Sound Pressure Level analysis, Flow rate testing, and an estimation of annual operating costs and air change rate.

Alucast has decided to go to market with the hardware revision they currently have, following the testing completed during the two voucher projects. Upon recommendations from NIMBUS, it has been in contact with its local enterprise board as well as Gentian to bring the product to a more market-ready state.

**Research Entity Name: Centre for Advanced Photonics & Process Analysis (CAPPA)**

1. **Description**

CAPPA is a research centre conducting both applied and fundamental research on photonics for applications in areas as diverse as telecommunications, medical devices, food and pharmaceutical manufacturing. Photonics is the generation and manipulation of light, and is a key enabling technology for a wide range of topics. The CAPPA centre includes over 25 researchers and postgraduate students, and is housed in laboratories both in the CREATE building on the Bishopstown campus and in the Tyndall National Institute as part of the CIT@Tyndall collaboration. It hosts the EI-funded CAPPA Technology Gateway, which has a specific remit to focus on industry engagement and collaborative applied research, and is a partner in the €30m SFI-funded Irish Photonic Integration Centre (IPIC). Since 2008, CAPPA has been awarded over €10m in funding, published over 75 peer-reviewed papers, worked with over 30 companies, and has 20 current projects (including coordinating 2 FP7). See www.cappa.ie for more.

2. **Research Summary**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>9</td>
<td>Incl. IRC Postdoctoral Fellowship for Tatiana Habruseva</td>
</tr>
<tr>
<td>Research Funding Projects awarded (EU/Intl funding agency)</td>
<td>2</td>
<td>NISTAS EU €1.13m total, €240k CAPPA AquaMMS EU €1m</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>1</td>
<td>ISA Ireland Best Postgraduate Student 2013 (Nicola Pavarelli)</td>
</tr>
<tr>
<td>Newspaper articles, book reviews</td>
<td>6</td>
<td>NISTAS project on RTE News and optics.org</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Conferences chaired/hosted</td>
<td>1</td>
<td>‘Photonics as an Enabling Technology’, 26-27 June, Cork – final conference of EU Marie Curie ITN PROPHET</td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>International Research visits</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
3. Research Highlights

NISTAS – Non-invasive screening of the state of the vascular system

EU FP7 Research for the Benefit of SMEs project
This two-year, €1.13m European project aims to develop and commercialise a method of diagnosing cardiovascular illness in a cost-effective and patient-friendly manner using an optical technique, rather than invasive catheter or expensive MRI operations. The instrument developed, VascuLight, will use a non-contact laser triangulation method to measure the velocity of the pressure wave in the pulse at the carotid artery in the neck. This provides invaluable information about the patient’s vascular health, such as arterial stiffness, a recognised predictor of cardiovascular risk and mortality. The project teams CAPPA with 6 SMEs (including 2 Irish) and 2 other research organisations.

AquaMMS

EU FP7 Research for the Benefit of SMEs project
The AquaMMS project involves a consortium of 5 SMEs and 3 research performers developing a new real-time multi-sensor monitoring device for the aquaculture industry. The device will use an array of advanced approaches, including mass spectrometry and optical technologies, to measure a wide range of parameters that can affect the water quality in fish farms, specifically in recirculation systems. The 2 year, €1m project started in October 2013, and sees CAPPA developing fluorescence and optical pH sensors for incorporation in the final system.

IPIC – Irish Photonic Integration Centre

SFI Research Centre
The €30m IPIC research centre was officially launched on 24 January 2014 by the Minister for Research and Innovation, Mr Seán Sherlock TD. It is one of the initial seven centres funded by SFI in Ireland’s largest ever state/industry research investment, and brings together a critical mass of over 100 photonics researchers from four institutes (Tyndall, CIT, UCC and DCU). IPIC targets the development of new, highly-compact and miniaturised photonics technologies for the ICT and medical devices sectors. Within IPIC, CAPPA works on 5 targeted projects with industry partners, as well as core platform research (€3.5m total funding to CIT).

4. Case Studies:

ProPhotonix

ProPhotonix, a locally-based optical component company, reacted to a need in its product market to create a laser module for its customers. The unit had certain design criteria that were required to be met, including specific output power, small form factor and individually replaceable parts. Through an EI Innovation Partnership, CAPPA, together with the Tyndall National Institute, developed a prototype which was assessed and critiqued by the company. This has led to an IP licence and plans to fabricate a series of the modules.

Egan Golf

An Irish-based golf company approached CAPPA with its idea for a golf aid which would assist players in lining up their shots. The system is a small unit that fits in the pocket. Once sighted through a sight in the top of the unit, it is then GPS locked and placed on the ground. The light source switches on, visually marking the optimum direction of swing. Through an EI Innovation Voucher, CAPPA assisted the company with the selection and optical design of the light source. The product is currently in production and has been deemed course legal by the PGA.

Research Entity Name: BIO-EXPLORE

1. Description

BIO-EXPLORE is a team of Life Science based researchers who are committed to research in the areas of diagnostics, bio-therapeutics and bio-informatics. Between 2008-13 researchers within BIO-EXPLORE have generated research funding in excess of €5,000,000. In the same period 45 postgraduates have been conferred from BIO-EXPLORE (25 PhD and 20 MSc). Currently 36 postgraduates are registered supervisors within BIO-EXPLORE. Additionally, of the 120 publications that have appeared on PUBMED from CIT, 92 (77%) have been produced by researchers from BIO-EXPLORE.
## 5. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>9</td>
<td>AC 2 x FIRM (Aug 2014): FIRM €492,222; CIT allocation €187,200. FIRM €743,603.45; CIT allocation €151,150. Other partners UCD, CVRL Backweston, Teagasc, Moorepark. Roy Sleator 1 x RISAM (with Aisling O’Driscoll, Computing) €51,000 Roy Sleator 1 x IRC (with Brigid Lucey) €96,000 Roy Sleator 1 x Walsh Fellowship (with Francis Kearney, Accounting) €66,000 Roy Sleator 1 x SafeFood research project (with Brigid Lucey) €16,000 AF 1 x Teagasc WF (Ref # 2014215)/ FIRM (Ref #: RMIS 6591) with Martin Danaher [Teagasc] €75,400 for CIT (Feb 2014)</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>1</td>
<td>Roy Sleator SafeFood research project (with Brigid Lucey) €16,000 (listed above under Natl also).</td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>3</td>
<td>CIT RISAM scholarships</td>
</tr>
<tr>
<td>PG scholarships (external national – IRC, IoTI, etc.)</td>
<td>2</td>
<td>2 x IOTI scholarship 2 x Irish Research Council PhD Scholarships</td>
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<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>2</td>
<td>Roy Sleator • National student led Teaching Hero Award • Listed in the IMIA Yearbook of Medical Informatics 2014 for one of the best articles of the year in the fields of Big Data and Health Sciences</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Seminars, colloquia hosted</td>
<td>1</td>
<td></td>
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<tr>
<td>Conferences chaired/hosted</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>1</td>
<td>Roy Sleator – Synthetic Biology Futures Conference</td>
</tr>
<tr>
<td>International Research visits</td>
<td>9</td>
<td>Natl Centre for Biotech, Madrid; Hochule Munchen, Germany. 2 Institutes in China, 3 Institutes in India, University of Portsmouth, UK</td>
</tr>
</tbody>
</table>
6. Research Highlights

A highly significant scientific outcome in the past year was the Identification of a new bacterial species Campylobacter Corcagiensis (species named after Cork) by Dr Roy Sleator and Dr Brigid Lucey.

Research Entity Name: Medical Engineering Design and Innovation Centre (MEDIC)

1. Description

MEDIC researchers have developed new medical devices from concept through to the point at which a developed design can be licensed to a commercialisation entity. MEDIC is Ireland’s only academic research centre certified to ISO 13485, the international standard for medical device design. The team is supported by an extensive network of clinicians and utilises its high-tech infrastructure and software for medical device design, prototyping, verification and validation. MEDIC’s ISO 13485 certified quality system allows the seamless transfer of a production-ready device to an industry partner, normally through licensing. MEDIC aims to maximise the return on its technology for both CIT and Ireland.

AventaMed, a spinout from MEDIC, is targeting a $5.4bn market representing two million ear grommet insertion procedures annually, with a device developed in MEDIC. AventaMed will employ 15 people in Ireland to manufacture the device, conduct clinical trials and achieve regulatory approval and product launch.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>3</td>
<td>ÅBK, Arrotek, ARC</td>
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<tr>
<td>PG scholarships (internal)</td>
<td>1</td>
<td>John Vaughan, PhD</td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>5</td>
<td>ISO 13485 successful audit, IN3 Winner, WSGR Finalist, Intertrade Ireland Seedcorn Regional Finalist, Cork Innovates Finalist, MEDTEC Europe representative.</td>
</tr>
<tr>
<td>Newspaper articles, book reviews</td>
<td>5</td>
<td>Interview on Newstalk with Pat Kenny, Articles in The Examiner, The Echo and Irish Times following IN3 win (see above). Article in Start-up magazine</td>
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<tr>
<td>Invited presentations</td>
<td>3</td>
<td>MEDTEC Ireland, IMC</td>
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<tr>
<td>International Research visits</td>
<td>15</td>
<td>AAO, Vancouver, Canada. Multiple visits to clinical sites in Nottingham, Liverpool and London. Attendance at ESPO.</td>
</tr>
</tbody>
</table>

3. Research Highlights

MEDIC is coming to the end of three technology projects:
- a one lung ventilation device
- an ENT device for grommet insertion into the eardrum
- chest drain device to be used in thoracic surgery

The OLV product is likely to be the subject of a HRB funding application in which they will work with the Clinical Research Facility in the Mercy Hospital to support a clinical trial for the device.
The ENT product is the subject of a CIT Campus Company Spinout, AventaMed. AventaMed is approved to license the technology from CIT and is presently finalising its funding structure to bring the product to market.

The Chest Drain project is currently entering its second phase where the design will be finalised and discussions will start with possible licensees.

All projects have the significant involvement of local and international clinicians, CIT’s TTO office and a network of legal and regulatory experts. Enterprise Ireland is MEDIC’s primary source of funding.

4. Case Studies

MEDIC has been leveraging its technical capability to provide high tech services to industry, particularly its 3D printing equipment and its coordinate measuring (CMM) equipment. They have significant business with the likes of ArrowTek in Sligo and ABK Medical in the CIT Rubicon Incubator. Also, through their own built up in-house expertise they have given significant QA support to ARC Medical (a cross border Company) in their effort to get their next generation product CE marked.

**Research Entity Name: Halpin Centre for Research and Innovation (at the NMCI)**

1. Description

   The Halpin Centre undertakes maritime focused research and innovation through national and international collaboration for the benefit of Ireland and the Munster region. The Centre has three key focus areas, maritime safety and security, maritime shipping, transport and logistics, and maritime education and training innovation that are supported by cross-cutting themes of maritime operations, ICT and communications, maritime mechatronics, human factors, engineering and policy. The Centre works in close partnership with other research centres and schools in CIT and with NMCI partner the Irish Naval Service to deliver operationally relevant practical innovations to enable safer, more efficient and more cost-effective operations at sea. The Centre works closely with Irish start-ups, SMEs and Irish-based companies to develop innovative products and services for the international maritime technology marketplace.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
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</thead>
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<td>Research Funding Projects awarded (national funding agency)</td>
<td>1</td>
<td>AEOLUS SEAI with NIMBUS Centre</td>
</tr>
<tr>
<td>Research Funding Projects awarded (EU/Intl funding agency)</td>
<td>4</td>
<td>LEANWIND EU ARCOPOL-PLATFORM INTERREG IV EUCISE2020 EU MORUS NATO</td>
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<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>2</td>
<td>CIL MET-OCEAN MARACC IV</td>
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<tr>
<td>PG scholarships (internal)</td>
<td>1</td>
<td>SHAPEFITS - joint supervision with Memorial University, St. John’s Newfoundland &amp; Dept. Biochemistry, CIT</td>
</tr>
<tr>
<td>PG scholarships (external national – IRC, IoTi, etc.)</td>
<td>4</td>
<td>MaREI PhDs with NIMBUS (1) &amp; Computing (3)</td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>2</td>
<td>Halpin was nominated to hold the Irish national chairs on both TP Waterborne and ALICE (European Shipping, Transport and Logistics platform). These are influential bodies that help shape EU R&amp;D and Enterprise policy in the maritime and STL sectors</td>
</tr>
</tbody>
</table>
### 3. Research Highlights

#### AEOLUS (Maritime Safety & Security)

Funded by the Sustainable Energy Authority of Ireland (SEAI), AEOLUS is a public good study that is investigating the viability of using kite-based propulsion technologies aboard vessels that engage in special operations. Kite traction is a propulsion enhancement technology that has been demonstrated to yield fuel savings aboard traditional merchant vessels voyaging between ports, however it is unproven for use aboard vessels such as navy ships, research vessels, fishing vessels etc. that have very different operational behaviours. This study, working closely with the NIMBUS Centre at CIT and facilitated by the Irish Naval Service seeks to investigate whether there is a prima facie case for the use of kite-based propulsion technologies aboard such vessels. If the case is established, the potential fuel saving and positive consequential environmental benefits for vessels operating in both Irish and international waters is significant. A further project is being developed that will consider the dual use of high altitude traction kites as sensor platforms.

- Funding: Sustainable Energy Authority of Ireland
- Start: June 2014
- Duration: 5 months
LEANWIND (Shipping, Transport & Logistics / Marine Energy)

LEANWIND™ (Logistic Efficiencies and Naval architecture for Wind Installations with Novel Developments) seeks to apply lean principles to the offshore wind farm project lifecycle. The primary LEANWIND objective is to provide cost reductions across the offshore wind farm lifecycle and supply chain through the application of lean principles and the development of state of the art technologies and tools.

- Funding: FP7-Ocean 2013
- Start: November 2013
- Duration: 4 years

ARCOPOLPLATFORM (Maritime Safety & Security)

The ARCOPOLPLATFORM project builds on the success of the ARCOPOL+ project recently completed. The project is concerned with combating oil and Harmful Noxious Substance (HNS) spills through technology transfer, training and innovation. The project’s aim is to reinforce the preparedness and response to oil and HNS spills in Atlantic Regions.

- Funding: 2007-2013 Atlantic Area Programme. ERDF, Interreg Atlantic Area
- Start: March 2014
- Duration: 24 months

ATLANTICPOWER (Maritime Training & Education)

The Atlantic Power Cluster project builds on the Marine Energy Working Group set up in the CPMR (Atlantic Arc Commission) and is intended to implement a transnational marine energy strategy so the partner regions can seek complementarities to tackle the crucial challenges for the development of marine energies in the Atlantic Area (AA).

- Start: February 2012
- Duration: 22 months

Research Entity Name: School of Business

1. Description

The research activity in the school of business comprises a group of individuals focusing on research in the following areas:

- Accounting and Finance
- Business Information Systems
- Economics
- Marketing
- Entrepreneurship - entrepreneurship education; gender and entrepreneurship; innovation and technological entrepreneurship, and firm growth and competitiveness.
- Clustering - Analysis, visualisation and mapping of cluster ecosystems to inform competitiveness and innovation policy.
- Management

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Research Funding Projects awarded (EU/Intl funding agency)</td>
<td>4</td>
<td>Pro-US-ALL BeWiser Daphne Erasmus Plus</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>4</td>
<td>CPA Rubicon – PINC New Frontiers Programme SWRA (Clustering project for the Fuchsia Brands for the West Cork Development Partnership) Interviewing 10-15 firms in the Dairy and Meat Sector in Cork</td>
</tr>
</tbody>
</table>
3. Research Highlights

The Hincks Centre for Entrepreneurship Excellence

The Hincks Centre conducts research in all aspects of enterprise and entrepreneurship development. Its scope covers a variety of contexts: start-ups, micro, small and large businesses, not for profits, corporate and family businesses, educators, enterprise support agencies, students and the public sector. The Centre has secured a number of EU, industry and postgraduate funding projects in the following research areas: entrepreneurship education; gender and entrepreneurship; innovation and technological entrepreneurship, and firm growth and competitiveness.

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
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<tr>
<td>PG scholarships (internal)</td>
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<td>RISAM</td>
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<tr>
<td>PG scholarships (external national – IRC, IoTl, etc.)</td>
<td>1</td>
<td>Irish American Partnership</td>
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<td>Awards/recognition (to the centre or individuals within it)</td>
<td>2</td>
<td>B Kenny elected to the board of the European Council for Small Business and Entrepreneurship (ECSB) with responsibility for research collaboration and industry engagement. B Kenny appointed to the review board of the International Journal of Entrepreneurial Behaviour and Research.</td>
</tr>
<tr>
<td>Newspaper articles, book reviews</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Invited presentations</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Seminars, colloquia hosted</td>
<td>7</td>
<td>Economics Forum, Sales Institute, CPA, Marketing Institute of Ireland, BeWiser events, Fota Wildlife Park, Marketing &amp; Management Strategy; A 5 Year Plan (Part 1, Part 2).</td>
</tr>
<tr>
<td>Conferences chaired/hosted</td>
<td>6</td>
<td>Track chair and co-chair - IAM, September, 2013/2014 and ICSB 2014, 2 x chaired sessions at RSAI, Aberystwyth, Wales</td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>4</td>
<td>Youghal Socio Economic Development Group, Munster Rugby, Summer Camp - second-level schools</td>
</tr>
<tr>
<td>International Research visits</td>
<td>6</td>
<td>Finnish Visit - June 2014, hosted by the Hincks Centre, Ljubljana, Slovenia; Nicosia, Cyprus; Karlsruhe, Germany and Sophia Antipolis, France - BeWiser, Catherine Murphy, Turku University of Applied Sciences, Finland on Service Design</td>
</tr>
</tbody>
</table>
BeWiser

“Building Enterprises – Wireless and Internet Security in European Regions” (BeWiser) is an FP7 Region of Knowledge project. The consortium consists of seven ICT Triple Helix Clusters (THCs), from: Cyprus, France, Germany, Ireland, Slovenia, Spain and UK (www.be-wiser.eu).

THCs support and animate a network of businesses, regional tech-centres, and public authorities responsible for economic development. These clusters share a common objective through BeWiser of stimulating ICT and Wireless and Internet Security innovation. CIT is developing the Joint Action Plan, which includes a V-LINC analysis and policy roundtable development workshop for each cluster. The internationalisation section will identify links with expert clusters and future markets.

4. Case Studies

V-Linc Analysis

As part of the BeWiser project Dr John Hobbs and Eoin Byrne are applying the V-LINC analysis to 7 ICT clusters across Europe and a number of MNE and SME ICT firms have been interviewed to develop cluster ecosystems reports which inform cluster/sector policy in each region. In Cork, Ireland - 16 firms were interviewed: Decare Systems Ireland, EMC, ePubDirect, Flextronics, Inhand Guides, Moog, Newsweaver, Qumas, Smarttech, Solarwinds, Strencom, Supply.ie, Trend Micro, and Zartis. In terms of other projects, data has been collected in the Biopharma sector, Maritime sector, and Tourism sector across Europe.

Determinants of SME Growth in Ireland

Funded by the Certified Public Accountants (CPA) Ireland, the Hincks Centre for Entrepreneurship Excellence is conducting a study that involves primary research with incubator and non-incubator firms along with incubation centre managers and enterprise support agencies. The aim is to provide a comprehensive understanding of the key characteristics of growing SMEs. This study will provide empirical evidence of what determines growth in SMEs in Ireland. More importantly, for those firms that have not grown to their potential, this study will provide insight into the specific issues that are constraining growth and the specific supports that are required to overcome these barriers.

Evaluation of the PINC Female Entrepreneurship Programme.

The Hincks Centre for Entrepreneurship Excellence was commissioned to conduct an independent evaluation of the PINC female entrepreneurship programme provided by the Rubicon Centre, CIT since 2011. The aim was to verify that the programme responds to the needs of the target group, to assess the impact and the effectiveness of the course, to explore areas of improvement for the course, and to gain insight into the needs of participants on completion of the programme. The final report underscores the positive contributions of the training programme and identifies some specific areas where the programme can be improved and expanded to enhance the impact of the programme.

Research Entity Name: School of Humanities - Integrated Community Care

1. Description

The research activity in the School of Humanities comprises a group of individuals focusing on research around the broad field of ‘Integrated Community Care’ e.g. inter-professional education, social care, childhood obesity prevention, physical activity, self-management and empowerment in social work and health care. There are also individuals researching in the field of sports coaching, vacation marketing, food tourism, women in international management, and food businesses and their interaction with CIT.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>1</td>
<td>External Evaluation of ‘Points for Life Pilot Project’ (2014) funded by the Professional Development Service for Teachers (T Coppinger, member of evaluation team)</td>
</tr>
</tbody>
</table>
3. Research Highlights

- The ‘Project Spraoi’ research team is delivering and evaluating an integrated school based intervention to improve nutrition and increase physical activity in primary school children. The project aims to empower ‘whole-schools’ to adopt sustainable healthy lifestyle behaviours with the aid of trained ‘energizers’. This includes schoolchildren, teachers, principals, administrative staff, parents/guardians and all those involved in the running of schools.

- The Report Card on Physical Activity in Children and Youth is a means of collating all data related to children’s physical activity levels in a particular country and ‘grading’ the evidence using a grading system; just like a school report card. It was first started in Canada and, since then, a further 14 countries have taken part. Ireland’s first Report Card was published in 2014 and a member of the School was a part of the committee who compiled Ireland’s Report Card.

4. Case Studies

Ballymaloe Cookery School
Research is being conducted on the impact of Ballymaloe Cookery School on the region over the past 30 years. A partnership between Ballymaloe Cookery School and the Department of Tourism and Hospitality has been formed with the intention of growing research for the mutual benefit of both.

Cope Foundation
The CEO of Cope Foundation appointed Dr Margaret Linehan as Chair of a working group to produce a report on work/life balance for Cope employees. Dr Linehan chaired a group of relevant stakeholders, including Cope staff, union representatives and presented the report to the CEO of Cope Foundation in May 2014.
Dr Margaret O’Keeffe, on behalf of the School of Humanities devised and delivered workshops to Cope Foundation users. The workshops were a success, and plans are in place to deliver more workshops this semester. There is also potential to conduct research with these stakeholders.

**SMEs and their interaction with CIT**

Research is being conducted with local SMEs in relation to their interaction with CIT. This research aims to discover the various interactions local food and beverage companies have with CIT.

**Research Entity Name: MeSSO**

1. **Description**

   The group is currently active in the areas of marine renewable energy technology development, agricultural energy usage and building energy system performance optimisation. Although PhD funding has been secured on projects specific to these areas, it is the specific expertise and skills that are being applied within these projects that are the unique competencies of the group. The core discipline expertise of the group is broadly summarised as:

   - Numerical Simulation, Computational Fluid Dynamics & Finite Element Analysis
   - Performance-Based System Simulation and Modelling
   - Regression Modelling, Mechanistic Modelling & Optimisation algorithms
   - Control System Design

   The application of these core competencies is in the following thematic areas

   - Marine and Renewable Energy Technologies
   - Control and Optimisation of Milk Processing
   - Building Technologies, Nearly Zero Energy Buildings, Smart Buildings, Ventilation systems
   - Mathematical Modelling of Bio-Systems

2. **Research Summary**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>1</td>
<td>El Innovation Partnership with Teagasc, WIT, ICBF, Glanbia, and Dairygold.</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>1</td>
<td>El Innovation Partnership with Teagasc, WIT, ICBF, Glanbia, and Dairygold.</td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>6</td>
<td>Incl Registered after 1st Sept 2013</td>
</tr>
<tr>
<td>PG scholarships (external national – IRC, IoTI, etc)</td>
<td>3</td>
<td>Walsh, IRCSET, IoTI</td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>1</td>
<td>Best Paper Award – IMC30</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>3</td>
<td>CERC13, SEAI IEA Sem, Marine Ren Energy pres UCC</td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>1</td>
<td>Roadshow</td>
</tr>
<tr>
<td>International Research visits</td>
<td>3</td>
<td>SFI India, IEA Annex 62 Athens, and Luassane</td>
</tr>
</tbody>
</table>
**Research Entity Name:** SIGMA Software Innovation Group

1. **Description**

CIT’s SIGMA research group has extensive track record applying advanced software and computational techniques to real world problems. Researchers in SIGMA have enabled commercial applications in diverse domains such as health, biology, education, and energy. SIGMA’s research has led to numerous peer reviewed journal papers, national and international research funding and a commercial spin out.

2. **Research Summary**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>6</td>
<td>Numerous testimonials and best papers awards.</td>
</tr>
<tr>
<td>Newspaper articles, book reviews</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Invited presentations</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Seminars, colloquia hosted</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Conferences chaired/hosted</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>International Research visits</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

3. **Research Highlights**

- Coordinated (de facto) ClouDx-i project which was singled out for notable success by EU Commission
- Published a series of innovative 6 Journal papers
- Awarded IRC status as a national thought leader in the emerging field of Affective Computing (Intel, Google and Microsoft are developing cutting edge new technologies in this area)
- Started 2 SFI funded projects with Automsoft and MyMic Ltd
- Won H2020 contract for SIGMA spin out NSilico
- Won major contract for food safety with IBM and WHO food safety centre for NSilico Ltd
Research Entity Name: Sustainable Infrastructure Research Group (SIRG)

1. Description

The Sustainable Infrastructure Research Group is the research group encompassing the School of Building & Civil Engineering. The Group contains nine active academic research staff, one full-time researcher and twelve postgraduate students at Masters and PhD level.

The research focus is in the area of Environment, Energy and Sustainability in the general context of Building & Civil Engineering; this Energy and Sustainable Environment theme of research is consistent with Institutional and National research strategies. Specific active research areas within this research theme include Renewable Energy, River & Estuarine Sediment Management and Structural & Infrastructural Engineering; developing research areas include Building Energy, Architectural Technology, Geotechnical Engineering, Fire Engineering and Value Management. The research work is generally applied in nature and targeted and relevant to industry and professional practice. Active research links are in place internally with other researchers and research groups in CIT and also with a range of other higher education institutions, particularly UCC and UCD.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (EU/intl funding agency)</td>
<td>1</td>
<td>CEAMaS Project €4,139,500 total; CIT award €167,140 EU Interreg</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>1</td>
<td>Client: Byrne Looby PHMccarthy/OPW</td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>2</td>
<td>CIT RISAM Scholarships</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

3. Research Highlights

The EU Interreg Project CEAMaS is a large scale project with eight partners including research institutions and industry organisations spanning four countries (Ireland, The Netherlands, Belgium, and France). This project commenced in September 2013 with a completion date of September 2015. The project is examining a range of potential Civil Engineering Applications for Marine Sediments (CEAMaS) including detailed Environmental, Economic and Societal Impact analyses. Outputs from the project will be archived in a European Resource Centre for Dredged Marine Sediments. CIT has been actively involved in dredged sediment research in Ireland for a decade and leads one of the CEAMaS Project Work Packages. This project builds on CIT’s ongoing research in the area of fresh and salt water sediment in river and estuary systems.

Energy related research is on-going and funded through a range of internal and external funding sources. The theme of Building Energy is currently being developed through a range of research projects including the sustainable retrofit of local authority housing stock from the 1930’s to 1970’s, a post-occupancy energy evaluation using the Zero2020 test bed as a data source, a methodology for retrofit of Commercial NZEB and institutional buildings and designing the optimally efficient domestic dwelling from an energy viewpoint in the context of climatic data sets.

Research under the general theme of Energy Production, Policy and Infrastructure is on-going with current research projects focusing on biogas production for electricity or as a renewable natural gas for transport, biogas facilities and infrastructure in a national context, design of a domestic scale anaerobic digester and the use of pumped hydro energy storage and wind energy for potential sites in Ireland.

Research activity in Structural Engineering is focused on the investigation and analysis of the response of a range of structural engineering materials to applied loads. The focus of the research work is on laboratory testing complemented by numerical modelling applications. A current research project, for example, concentrates on Analysis and Testing of Shear in Precast Concrete
A highlight of the structural engineering research work has been the nine papers presented at the Civil Engineering Research in Ireland Conference held in Belfast in August 2013; the largest number of papers presented from any Civil or Structural Engineering Research Group in Ireland.

**Research Entity Name: Astronomy and Instrumentation Group**

1. **Description**

The AIG conducts research into fields associated with astronomy and astronomical instrument development and also supports the outreach activities of the CIT BCO. In particular, the group conducts research in the field of Very High Energy Gamma Ray Astronomy as a member of the VERITAS collaboration and develops instruments and data analysis techniques which enable us and our collaborators to gain a better understanding of the physics underlying some of the most violent astronomical objects including quasars. The AIG is uniquely placed to inspire young and old in the area of STEM education by using our astronomical and instrument expertise to develop new exhibits, workshops, etc., for use both at CIT BCO and directly into schools via their outreach programmes.

2. **Research Summary**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>30</td>
<td>Varying in size from €500 to €40k, the projects are related to STEM educational activities</td>
</tr>
<tr>
<td>Research Funding Projects awarded (EU/intl funding agency)</td>
<td>1</td>
<td>In association with Multiverse at UC Berkeley</td>
</tr>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>3</td>
<td>Zenith Technologies, Planet21, Qualcomm</td>
</tr>
<tr>
<td>Journal Publications</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Conference Publications</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Newspaper articles, book reviews (not in Scopus)</td>
<td>Numerous</td>
<td>Related to STEM education with school and community groups</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>&gt;100</td>
<td>Related to STEM education with school and community groups</td>
</tr>
<tr>
<td>Outreach events involving public</td>
<td>&gt;100</td>
<td></td>
</tr>
<tr>
<td>International Research visits</td>
<td>3</td>
<td>USA, India (x2)</td>
</tr>
</tbody>
</table>

3. **Research Highlights**

i) Installed a robotic telescope in California for use by Irish and American schools as a means to inspire a greater STEM interest in the classroom, whilst also providing curricular supports for teachers.

ii) Participated on the VERITAS observing programme during a two-week research visit to the observatory (December 2013). During this visit, hardware and software upgrades were made to the on-site CIT LIDAR and infrared radiometer sky monitors. In addition, configuration improvements were implemented on the local network VLAN infrastructure.
Outside of the core areas for research at CIT, CCAD has made significant steps in establishing a sustainable research strategy within the Institute. It is one that builds on existing Institute-wide research structures and demonstrates how creative practice can be integrated with other fields of established research interest.

Part of this strategy for stimulating research in creative practice - for example in designing responsive artefacts or novel multimodal interfaces - has been to stimulate undergraduate student projects with level 10 research aims being fostered in the department. Over the last three years a network of connections with museums and heritage centres has been established, where there now exists reciprocal commitments with respect to certain research interests in the school.

South Presentation Company Limited as part of their work in developing a new museum at the heart of Cork City has invested in staff research knowledge within the school. It has also funded two research scholarships each to a value of €16,000 which are expected to continue as the museum develops future content and strategies for its ongoing dialogue with visitors. The collaboration of both doctoral and undergraduate research has been integral to securing funding for the project.

The 2013-2014 multimedia year group produced projects for four separate museums. One of these, the ‘TaraScope’ project, was part of an international initiative between CIT BCO and Chabot Space & Science Center, California, aimed at connecting the two locations while also stimulating interest in astronomy, science, technology, engineering and math. The project used a combination of physical and digital network technologies to interface between the two locations and the project is to be presented at the prestigious TEI conference in Stanford, CA, USA in January 2015.

A significant benefit which may be gleaned for the collaborations outlined above is that undergraduate degree students have now an increased awareness of research as a potential career path in the school.

**INDIVIDUAL RESEARCHERS**

**Dr Aisling O’Driscoll**

1. Description

Aisling O’Driscoll is a lecturer and researcher in the Department of Computing at CIT. Her research is in the area of big data engineering and cloud computing which has largely been applied in the bioinformatics space to date.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding Projects awarded (national funding agency)</td>
<td>1</td>
<td>€148,000 - SFI via the APC Innovation Platform. The first co-registered PhD student between CIT and UCC</td>
</tr>
<tr>
<td>PG scholarships (internal)</td>
<td>1</td>
<td>€51,000 (x 1) - Robert Ahern</td>
</tr>
<tr>
<td>Awards/recognition (to the centre or individuals within it)</td>
<td>1</td>
<td>Awarded an AWS Educator grant, $11,000 in September 2014</td>
</tr>
<tr>
<td>Invited presentations</td>
<td>1</td>
<td>Conference Presentation at the IEEE Vehicular Networking Conference (VNC), Boston, USA, December 2013</td>
</tr>
</tbody>
</table>
| Conferences chaired/hosted                  | 2           | • Co-chair and Head of the Organising Committee for the Collaborative European Research Conference (CERC), NMCI, October 2013.  
• Co-chair of the Irish SUMO User Workshop (ISUW) in conjunction with the Performance Engineering Laboratory (PEL), UCD, August 2013. |
| Outreach events involving public            | 1 (ongoing) | CIT Pod leader and committee member for the Inspiring Women in STEM (I Wish) event to be held February 2015. |
Other Notable Achievements (Research and Otherwise):

- PhD Completion – February 2014.
- Invited External Examiner, MSc in Data Science and Business Intelligence, Dundee University (2014-2017).
- QQI assigned expert reviewer for the evaluation of the National Colleges of Ireland (NCI) in Business Analytics, Postgraduate Diploma in Science in Data Analytics and MSc in Data Analytics.
- Invited Faculty Member of the Alimentary Pharmabiotic Centre (APC), UCC.
- Member of the Technical Programme Committee (TPC) for the "Testing the Cloud” Workshop (TTC), Cleveland, Ohio, March 2014.
- Technical reviewer for the ACM-Baltzer Journal of Wireless Networks (WINET).

Dr Declan O’Connor

1. Description

Dr O’Connor’s research focuses on Dairy economics and agricultural policy evaluation and he also supervises postgraduate students.

2. Research Summary

<table>
<thead>
<tr>
<th>Metric</th>
<th>Number only</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research projects with substantial industry involvement awarded</td>
<td>1</td>
<td>Cork County Council €30,000</td>
</tr>
<tr>
<td>Journal Publications (not in Scopus)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Newspaper articles, book reviews (not in Scopus)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Invited presentations</td>
<td>4</td>
<td>Irish Farmers Association x2 UCC x 2</td>
</tr>
<tr>
<td>International Research visits</td>
<td>1</td>
<td>Darmstadt</td>
</tr>
</tbody>
</table>
4.3 Research Publications

The diagrams below and on the following pages provide a snapshot of the peer-reviewed publication activity across the Institute.

**Figure 1:** The distribution of peer-reviewed publication co-authors. In 2012/13 the second largest collaboration was with the US, while in 2013/14 it is Germany. In total, CIT researchers publish peer-reviewed papers with co-authors from over 50 countries.

**Figure 2:** The distribution of publications by discipline. Approximately 75% are in science and engineering disciplines.
Figure 3: The distribution of publication type. The percentage of conference papers has increased from 18.2% in 2012/13 to 29.0% in 2013/14.

Figure 4: The distribution of author affiliations. The largest come from the Tyndall National Institute and UCC, with a significant number of the remaining 12 being from USA universities.
The following are the Institute’s international peer reviewed publications (articles, conference papers, reviews, editorials) for the calendar year 2014.


antifungal compounds produced by lactic acid bacteria cultures, Volume 129


43. Goulding, D., Gallagher, C., Power, N.M., (2014), What policies should be implemented to develop a gaseous transport industry in Ireland?, Volume 44.


68. Lynch, C., O'Mahony, M.J., Scully, T., (2014), Simplified method to derive the Kalman Filter covariance matrices to predict wind speeds from a NWP model, Volume 62.


81. O’Driscoll, D., Škrabáková, Z., James, K.J. (2014), Confirmation of extensive natural distribution of azaspiracids in the tissue compartments of mussels (Mytilus edulis), Volume 92.


4.4 External Development Links

Engagement with Enterprise and Community Organisations

CIT’s long-standing commitment to higher-education/enterprise engagement has been evident throughout the Institution’s history and has resulted in its involvement in a number of international projects and leadership of a number of national projects in this space. CIT’s Strategic Plan views its engagement with enterprise and the extension of the campus into the wider community as a key defining characteristic. Engagement is embedded in many of its goals ensuring that the development of high quality, relevant and flexible programmes and the growth of research, innovation and entrepreneurship activities are informed by its partnerships with enterprises, public bodies and community groups in the context of regional, social and economic development.

Through the establishment of the CIT Extended Campus, CIT has provided a dedicated agency to coordinate efforts internally and to facilitate external organisations (public, private or not-for-profit) in their interactions with CIT and to collate business intelligence on engagement to further inform local and national strategy. The CIT Extended Campus acts to develop and support engagement as an Institute-wide commitment, embracing education, research, innovation and enterprise support, and has continued to grow the account and contact database and to stimulate enquiries and leads. These interactions and enquiries include requests for placement students, recruitment, skills and training needs, innovation vouchers, short research interactions, and access to equipment and expertise. The development of a new, more enterprise-friendly webpage and a short animated clip to explain the remit and the work of the CIT Extended Campus has been completed and the finished products will be launched shortly.

During 2013/14 the CIT Extended Campus worked with CIT and IT Tralee staff to map the range of engagements with enterprise and community groups across the institutions and to explore the underpinning processes and procedures in preparation for more aligned processes.

Marketing CIT’s Engagement Interactions and Model

In addition to an active Twitter presence, the CIT Extended Campus newsletter continues to be published every two months to over 1,200 contacts highlighting particular interactions between CIT academic or research units and enterprise or community groups. More in-depth case studies have been developed around specific interactions and, in addition to these being available through the CIT Extended Campus webpage, it is intended that they be uploaded to the REAP National Network repository (http://arrow.dit.ie/reap/) as exemplars of good practice in engagement where appropriate.

The Faculty representatives to the CIT Extended Campus continue to work closely with the Faculty executive to ensure that the activities and exemplars support the faculty objectives and strategy.

A case study featuring the CIT Extended Campus model has been accepted as one of 20 international exemplars to be presented by Dáithí Fallon and Dr Irene Sheridan at the University-Industry Innovation Network (UIIN) International Good Practice Event in Madrid on 29th Sept – 1st October 2014.

Representatives from Enterprise Ireland, (Policy and Strategy) have met with the Head of the CIT Extended Campus a number of times to explore the CIT engagement support and stimulus model and, in particular, the Customer Relationship Management (CRM) system in light of their developing regional innovation strategy.

Work-Based Learning and Recognition of Prior Learning

In making a positive contribution to the academic, economic, social and cultural life of the region and beyond, CIT is committed to a partnership approach which recognises and values learning and knowledge creation wherever it occurs and which views the workplace as a valid and valuable centre for learning. CIT is viewed as a practice leader in recognition of prior learning at a national and indeed international level. CIT’s policy underpins a well-developed mature process which complies with the HETAC 2009 document.

RPL Applications

During 2013/14 386 applications for RPL were supported involving 122 assessors and 5 formal staff development and 30 informal support sessions were offered. A system of lunchtime and evening workshops for students was offered during the first 6 weeks of each term to ensure that the process was efficiently managed and ongoing refinements were made to the precedence database and reporting systems.

RPL Policy Developments

In addition to practice excellence, CIT has been able to continue to make a significant contribution to the development of RPL policy nationally and internationally through Deirdre Goggin’s position as the QQI Ireland representative on the European RPL Network and Steering Group and contribution to the Ireland Country report which has been published https://cumulus.cedefop.europa.eu/files/vetelib/2014/87062_IE.pdf.
Learning Clinic Service

The Learning Clinic service continued to be in demand from local employers and acted as a significant starting point in supporting processes for company-focused customised learning activities. During 2013/14 8 Clinics were run in 4 companies.

Postgraduate Certificate in Professional Practice

A pilot work-based learning programme supporting postgraduate learning at Level 9 within the workplace setting was developed and approved during the 2013/14 academic year. This pilot is part of an HEA and American Chamber initiative and the programme development and implementation has been supported by the Extended Campus team throughout. CIT’s Postgraduate Certificate in Professional Practice focuses on process improvements in the Manufacturing sector and will feature a specialist module in Lean Six Sigma developed by CAMMS.

Springboard and ICT Skills Initiatives

During 2013/14 the CIT Extended Campus again supported the submission of CIT Courses at the proposal stage of the Springboard Process and the ICT Skills initiatives. Under the Springboard initiative 242 places on 13 courses were approved for a total value of €1,258,775. Two courses were approved under the ICT Skills initiative with 60 places, for a total value of €430,000.

The CIT Extended Campus team has continued to work closely with the HEA, the CIT Marketing Unit, and the various course owners to support the Springboard and ICT Skills courses and to support the HEA Roadshow in Cork, the recruitment of learners and HEA reporting requirements.

Other Projects

During 2013/14 the REAP project and the resulting REAP National Network for enterprise engagement continued to attract support from the HEA. The REAP LinkedIn Group continues to grow, attracting policy makers and practitioners involved in academic-enterprise engagement.

Dr Irene Sheridan, Head of CIT Extended Campus, assisted in the interpretation of results in the report on the State of University-Business Cooperation in Ireland as part of the DG Education and Culture Study on the Cooperation between Higher Education Institutions and Public and Private Organisations in Europe. The Ireland report is available here: http://www.ub-cooperation.eu/pdf/ireland.pdf
4.5 International and EU Activities

International Activities

The need for institutions of higher education to embrace internationalisation has never been higher. Inter alia, the increasing demand for international education, the adoption of English as the global language of education, the globalisation of business, the ready availability of information and communications technologies, the pressure for higher education institutions to increasingly self-fund, and the growing financial capacity of some major world powers have, in the view of many commentators, positioned internationalisation centrally in the strategic thinking of many institutions.

The Institute has long been engaged in the development of international relationships for the benefit of its students and other stakeholders. Over many years, CIT has developed strong relationships with international institutions (primarily European) which have provided student exchange opportunities, staff development avenues, and research outlets that would otherwise not have been available locally. In more recent years, the Institute has developed a number of highly promising strategic relationships in India, Canada, Brazil, Malaysia, China, and the Middle East.

CIT has a strong presence of international students, with reports illustrating that for the academic year 2013/2014, there were 1,361 students born outside of Ireland from over 125 different countries enrolled on full-time degree programmes:

<table>
<thead>
<tr>
<th>Country of Birth Status</th>
<th>2013/2014 Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Born in the UK</td>
<td>419</td>
</tr>
<tr>
<td>Born in Europe (excl. UK)</td>
<td>417</td>
</tr>
<tr>
<td>Rest of World</td>
<td>525</td>
</tr>
</tbody>
</table>

The “Rest of World” figure of 525 is not a direct indication of the number of students paying non-EU fees, as the fee status is determined by country of domicile, tax contributions to the State, Refugee Status, amongst other factors. Following research into the breakdown of the number of students actually eligible for the non-EU fee rate, it was established that in 2013/2014 there were 115 students in this category:

<table>
<thead>
<tr>
<th>Nationality</th>
<th>2013/2014 Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albania</td>
<td>1</td>
</tr>
<tr>
<td>Bangladesh</td>
<td>1</td>
</tr>
<tr>
<td>Belarus</td>
<td>1</td>
</tr>
<tr>
<td>Brazil</td>
<td>40</td>
</tr>
<tr>
<td>Canada</td>
<td>5</td>
</tr>
<tr>
<td>China</td>
<td>4</td>
</tr>
<tr>
<td>Congo</td>
<td>1</td>
</tr>
<tr>
<td>India</td>
<td>6</td>
</tr>
<tr>
<td>Japan</td>
<td>1</td>
</tr>
<tr>
<td>Malaysia</td>
<td>2</td>
</tr>
<tr>
<td>Nigeria</td>
<td>5</td>
</tr>
<tr>
<td>Oman</td>
<td>7</td>
</tr>
</tbody>
</table>
CIT’s International Office participated in the following promotional events since September 2013:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2013</td>
<td>European Association for International Education (EAIE) Conference</td>
<td>Istanbul</td>
</tr>
<tr>
<td>October 2013</td>
<td>Brazil BMI Workshops &amp; Education Fairs</td>
<td>Sao Paulo; Curitiba</td>
</tr>
<tr>
<td>November 2013</td>
<td>India Education Fairs &amp; Agent Workshops</td>
<td>Chennai, Bangalore, Mumbai, New Delhi</td>
</tr>
<tr>
<td>December 2013</td>
<td>Malaysia STAR Education Fair</td>
<td>Kuala Lumpur</td>
</tr>
<tr>
<td>January 2014</td>
<td>Postgraduate Portfolio Day</td>
<td>London</td>
</tr>
<tr>
<td>February 2014</td>
<td>Canada Education Mission &amp; School Presentations</td>
<td>Ontario</td>
</tr>
<tr>
<td>February 2014</td>
<td>India Education Fairs &amp; Agent Workshops</td>
<td>Chennai, Bangalore, Pune, New Delhi</td>
</tr>
<tr>
<td>April 2014</td>
<td>Ireland-Malaysia Education Fair Roadshow</td>
<td>Kuala Lumpur, Melaka, Johor Bahru, Penang</td>
</tr>
<tr>
<td>April 2014</td>
<td>Brazil FAUBAI Workshop</td>
<td>Santa Catarina</td>
</tr>
<tr>
<td>April 2014</td>
<td>GHEDEX Oman</td>
<td>Muscat</td>
</tr>
</tbody>
</table>

Over the past twelve months, there have been notable achievements in the international space, including:

- 119 new non-EU students joined CIT in September 2014 following promotional activities throughout the 2013/14 academic year.
- Successful results in the recruitment of Brazilian students through the Science without Borders Scholarship Programme. Thirty nine students joined CIT in September 2013 under the scholarship programme, and this was doubled in the following call, with eighty three Brazilian students joining the Institute in September 2014.
- The CAMMS Business & Entrepreneurship Academy was introduced in June 2014, with 11 international students. This was a two-month intensive programme in Innovation & Entrepreneurship, Lean Sigma, and Project Management with the aim of empowering students to start their own business or develop an entrepreneurial skillset to increase their overall employability.
- CIT was added to the Saudi Arabian Ministry of Higher Education’s approved institution list in June 2014, enabling CIT to recruit fully-funded Saudi students. Ten students joined the Institute through this programme in September 2014.
- In June 2014, CIT was approved as a participant in the US Federal Student Financial Aid Programs.

<table>
<thead>
<tr>
<th>Country</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pakistan</td>
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<tr>
<td>Russia</td>
<td>3</td>
</tr>
<tr>
<td>South Africa</td>
<td>1</td>
</tr>
<tr>
<td>Sudan</td>
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<tr>
<td>United Arab Emirates</td>
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<tr>
<td>United States of America</td>
<td>5</td>
</tr>
<tr>
<td>Uzbekistan</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total non-EU Fee Paying Students:</strong></td>
<td><strong>115</strong></td>
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</tbody>
</table>
EU Activities

Lifelong Learning/Erasmus Programme

During 2013/2014, the activities under the LLP Erasmus programme continued to develop. CIT was awarded an Erasmus Charter for Higher Education for the period 2014-2020, enabling the Institute to apply for mobility funding to finance and operate student study exchanges and placements, as well as academic staff exchanges and staff development visits, on an annual basis.

Funding totalling €116,453 was received from the HEA (Erasmus National Agency) for mobility activities to take place during the period from 1 June 2013 to 30 September 2014.

Erasmus Study Exchanges and Placements

During 2013 to 2014, 20 students from the following disciplines participated in the Erasmus Study Exchange programme: Music, Art and Design, Multimedia, Business Studies, Electronic Engineering, Computing, and Architecture. These students studied at Erasmus partner institutions in the following countries: Czech Republic, Spain, Austria, Finland, The Netherlands, Italy, Germany, France, and the UK.

Twenty-two students from the Schools of Business and Humanities and Science and Engineering, carried out Erasmus-funded placements at companies/organisations in Germany, France, Spain, Poland, and the UK.

The Institute also welcomed 171 incoming Erasmus students for study exchanges and placements in the following disciplines: Accounting, Architecture, Biology, Business Studies, Civil Engineering, Construction, Computing, Electrical Engineering, Electronic Engineering, Multimedia, Mechanical Engineering, Marine Engineering, Music, Nautical Studies, Physics, Recreation & Leisure, and Tourism. These students travelled from the following countries: France, Germany, Poland, Finland, The Netherlands, Czech Republic, Austria, Greece, Italy, Turkey, Spain, Latvia, and the United Kingdom.

Erasmus Staff Mobility

Fourteen Erasmus lecturing exchanges took place during the year - to The Netherlands, Norway, Germany, Italy, France, Finland, and Lithuania. Three staff members availed of Erasmus funded training visits to Germany, Romania and The Netherlands. A number of academic staff visits to students on placement abroad were also funded during 2013-2014.

The following departments/colleges were involved in the exchange programme during this academic year:

- Accounting & Information Systems
- Architecture
- Biological Sciences
- CIT CSM
- CIT CCAD
- Civil, Structural & Environmental Engineering
- Computing
- Construction
- Physical Sciences
- Process, Energy & Transport Engineering
- Electronic Engineering
- Management & Marketing
- Mechanical, Biomedical & Manufacturing Engineering
- NMCI
- Sport, Leisure & Childhood Studies
- Tourism & Hospitality

Exchange Partnerships

CIT currently has Erasmus exchange agreements with 115 European partner institutions.

Erasmus Intensive Programmes

A total of 59 students and 16 lecturing staff were supported on the Erasmus-Funded European Creative Futures intensive programme during 2013/14.

George J Mitchell Peace Scholarship

The Institute continued its participation in this scholarship exchange programme, which was established to commemorate the signing of the Good Friday Agreement. The Scholarship provides an opportunity for one semester exchanges for two students between CIT and the colleges in the Maine Community College System.
4.6 Campus Development

1. CIT ARENA

Description:
The CIT Arena multipurpose building is to be used for 3 main functions namely: sports and fitness; arts and culture; academic/education. The proposed building is 3000sqm incorporating a full 8 court sports hall; a full cardio/weights gym; changing facilities; and a number of multi-functional/project rooms. The proposed facility is located on the site of part of the existing all-weather pitches south of the outdoor running track.

Project Status:
Stage 1 (Preliminary Design) was completed in August 2014. Stage 2 (Developed Design) is due to commence in September 2014.

2. CREATE BUILDING (PRTLI)

Description:
The Centre for Research in Advanced Therapeutic Engineering (CREATE) houses an inter-disciplinary team of researchers which include the research groups CAPPA, BIO-EXPLORE and MEDIC. The CREATE building occupies 1600sqm over two stories and provides space for more than 60 researchers and their academic and business partners. The building is a standalone two-storey building located adjacent to C Block.

Project Status:
Construction was completed in November 2013 ahead of schedule.

3. MELBOURN (TYCO) BUILDING REFURBISHMENT – PHASE 3 E-LEARNING CENTRE

Description:
The project consisted of the fit out of the Melbourn mezzanine to provide an E-Learning Centre, including 6nr Delivery Rooms and 3nr Seminar rooms along with office accommodation. The E-Learning Centre occupies 700sqm in the Melbourn Building.

Project Status:
Construction was completed in November 2013.
4. GASES UPGRADE PROJECT (First Phase) C BLOCK MAIN BUILDING

Description:
This project consisted of the replacement of the existing East Atrium roof lights with new double glazed curtain walling system and upgrade of the existing roof covering. This project would be considered a pilot project to upgrade the entire roof covering in the old 1974 building which has long exceeded the design life and is required to mitigate Health & Safety risks.

Project Status:
Phase 1 works due to be completed in September 2014 consisted of: Replacement of East Atrium Roof lights and roof upgrade to 1,800m². Remaining 10,000m² to be upgraded during future phases.

5. GASES UPGRADE PROJECT (Final Phase) A BLOCK MAIN BUILDING

Description:
Gas cylinders were located within the laboratories – a safety report recommended that these should be located externally in a gas compound with pipelines running to the point of use in the laboratories. The system has safety features e.g. detection systems, automatic shut-off valves, alarms etc.

There were approximately 6 varieties of cylinder gases used within the Labs. The natural gas system was installed when the college was constructed in 1974 and some of the laboratories did not have modern gas safety systems fitted. The project also included the fitting of a gas proving and detection system.

Project Status:
This project was completed at the end of January 2014.

6. EAST ATRIUM ROOFLIGHT & ROOF COVERING UPGRADE WORKS MAIN BUILDING

Description:
A risk assessment carried out in accordance with the Health Safety & Welfare Act for place of work (i.e. potential explosive atmospheres), identified and analysed serious risks to user safety in workshops and adjacent areas in Blocks A & B. The assessment also highlighted a lack of gas detection and control safety features should a leak of flammable gas occur.

Project Status:
Stage 1 (Preliminary design) commenced in June 2014 and the project is due to start on site in May 2015.
7. FIRE SAFETY UPGRADE WORKS MAIN BUILDING (Phase 1)

**Description:**
Existing exit doors and the doors that sub-divide corridors on escape routes will need to be upgraded/replaced to meet the required fire safety standards. Likewise, escape route enclosures both horizontal and vertical need to be upgraded. Dead end corridors need to be upgraded to protected corridors and alternative means of escape provided internally. New escape stairs in Blocks A & B are required to deal with excessive travel distances.

**Project Status:**
Phase 1 Works undertaken in summer 2014, consisting of fire door upgrades, dealing with a number of dead end corridors. Future Phases will deal with remaining dead end corridors, upgrade of horizontal and vertical escapes and provision of new escape stairs.

8. REPAIR WORK TO THE CRAWFORD ROOF

**Description:**
Original roofs are in exceptionally poor state of repair with major damage to roof timbers and support walls. The roof repair project is part of a phased programme of works. Removal of leaking asphalt flat roofs and repairs to natural slated pitched roofs. The new asphalt membrane overlaid on new high performance insulation.

**Project Status:**
Works to Phase 1 were completed between July to September 2013 and works to Phase 2 completed between July to September 2014. Further phases to be carried out between July 2015 to September 2018.

9. MACHINERY SHED

**Description:**
CIT has purchased a range of pitch maintenance machinery items to facilitate in-house capacity to properly maintain and enhance the playing pitches and ancillary sports assets developed in recent years. A dedicated storage building is required to store this machinery. A dedicated substation is also required to supply the pitch flood lighting.

**Project Status:**
The project was completed in December 2013.
10. UPGRADE WORKS TO STAFF ROOM

Description:
Student Services and Staff unions requested an upgrade to the existing facility to provide better quality of food and service. The works also include fire safety, electrical and ventilation improvements to the facility to comply with Health Safety and Welfare at work regulations.

Project Status:
Works are due to be completed in September 2014.

11. CORK SCIENCE AND INNOVATION PARK

Description:
The Cork Science and Innovation Park (CSIP) is to be established at the western edge of the city boundary in Curraheen. The CSIP is expected to concentrate on green energy and research advancement that will complement the work being done by the various institutions such as the Rubicon Centre.

Project Status:
An implementation group has been established and a Masterplan and Business Plan developed.

12. INSTALLATION OF DONATED CHP SYSTEM MAIN BUILDING

Description:
The UTRC Company (NIMBUS-based research partners) has offered to donate an almost new CHP unit to CIT for use at the Bishopstown Campus. It could also lead to the possibility of installing a district heating system on campus. This combined project would increase the energy efficiency of the campus significantly. This CHP unit will facilitate the relocation of the existing CHP unit to the Tourism building, thus replacing the inefficient gas fired boilers.

Project Status:
The donated CHP was delivered to the UK in June 2014 so it could be retrofitted and reconfigured to European standards. CIT expect the CHP to arrive in CIT in February 2015.
13. **UTRC/CIT DISTRICT HEATING TEST BED**

**Description:**
The existing heating system shall be upgraded to a district heating type infrastructure to provide an experimental live test bed as well as providing consistent heating to the building users via smarter controls leading to greater energy efficiencies in the system. CIT has been contracted by UTRC via a Technical Service Agreement (TSA) to undertake the feasibility, concept, design, construction, and handover of the project.

**Project Status:**
Regular meetings and workshops are taking place with CIT and UTRC to plan this research project. The project is expected to start on site in May 2015.

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14. **G BLOCK UPGRADE WORKS**

**Description:**
Remodeling of internal room layout to provide additional staff office space and rationalise classroom space.

**Project Status:**
Works complete between July to August 2014
4.7 Safety & Facilities Management

During 2013/2014 emphasis was placed on a number of different areas within the Institute's safety management systems. The focus continued to be on risk assessments across the Institute.

Risk assessment training and mentoring was provided to personnel carrying out risk assessments in the NIMBUS Centre, Library, the Architecture Factory, and within the maintenance areas in Buildings and Estates.

Specific risk assessments were carried out in the Sports facilities (Grounds Maintenance), in the Careers and Counselling area, at Clonakilty Agricultural College and in the new Create Building-Biological Sciences Area.

A review of the storage and use of chemicals at CIT was initiated beginning with a review of the existing external chemical store and a review of chemical storage and use in the School of Mechanical, Electrical and Process Engineering. This process is ongoing.

CIT’s Emergency Procedures were reviewed and revised.

A review and revision of construction management procedures and maintenance works procedures at CIT was carried out in the period including the preparation of a revised permit to work procedure.

Training:

Health and Safety Training was provided as follows: Risk Assessment, Chemical Safety Awareness, Working at Height, Mobile Elevated Work Platform (MEWP), Fork Lift Driver, Fire Extinguisher and Fire Warden, Visual Display Unit Assessor, Cardiac First Responder, Occupational First Aid, Emergency First Responder, Manual Handling, Manual Handling Instructor, FÁS Safe Pass, Chainsaw/Small Equipment Operator and Safety Representative Training.

Health and Safety Projects:

Work continued in installing the piped gas installation to replace the use of internal gas cylinders in laboratories and workshops. This has been completed in Block C and the design of the system for Block A was prepared in advance of planned works on site in 2015.

A specific project was carried out on the facade of Block A to stabilise some of the cladding panels which had become displaced and were a safety hazard. A range of storm repair works and edge protection works was also carried out on the roof areas during the Summer Works 2014 Project.

Accidents:

There were a total of one hundred and five (105) accidents/incidents reported at CIT between 1/09/2013 and 31/08/2014. Eight of these incidents were of a serious nature which required removal off campus by ambulance to CUH.

This incident level is consistent with other institutes of a similar nature in Ireland (DIT-152, LIT-64, GMIT-46, WIT-28, LYIT-20, and ITT-12) bearing in mind the differing staff numbers, student numbers and range of activities in each institute.

Tragically, an employee of a contractor working at CIT was fatally injured following an accident on the Campus in November 2013. This resulted in a comprehensive investigation by Health and Safety Authority of the circumstances of the accident and on the Institute’s project safety management structures which were found to be compliant with all relevant legislative requirements.

Safety Committee:

Safety Committee meetings were held as scheduled throughout the period.
5. **Human Resources Report**

5.1 Human Resources Report

5.2 Staff Numbers

5.3 Staff Achievements
5.1 Human Resources Report

Staff Numbers

For the academic year 2013/14, the Institute's headcount was 1,443 which equates to 973.57 Whole-Time Equivalents (WTE). The largest category of staff was the Academic Staff which accounted for 60% of the headcount, 59% of WTE.

All figures shown in this section have been taken from the Public Sector Quarterly Returns as at 31 December 2013.

Retirements

The following staff retired from service during the year:

- Dr Eamonn Cashell, Dean of Graduate Studies
- Maud Coffey, Clerical Officer, Department of Media Communications
- John Cogan, Finance Manager
- Bernice Cremin, Clerical Officer, CIT CSM
- Mary Crowley, Assistant Staff Officer, Department of Civil, Structural & Environmental Engineering
- Patrick Crowley, Technical Officer, School of Science & Informatics
- Breda Dalton-Twomey, Lecturer 1(T), CIT CSM
- Michael Delaney, Vice President for Development
- Carmel Devaney, Lecturer, Department of Applied Physics & Instrumentation
- Elaine Flannery, Pro-Rata Part-Time Lecturer, Department of Biological Sciences
- Catherina Hearne, Lecturer, Department of Fine Art, CIT CCAD
- Thomas Kelly, Lecturer, Department of Tourism & Hospitality
- Michelle Kiely, Clerical Officer, CAMMS
- Derek Long, Lecturer, Centre of Craft Studies
- John J. Murphy, Lecturer, Department of Marketing & International Business
- Tom O’Connell, Clerical Officer, CIT CCAD
- Jim O’Dwyer, Head of Department of Computing
- Michael Randles, Lecturer, Department of Marketing & International Business
- John Twohig, Head of Centre of Craft Studies
- Pádraig Varian, Lecturer, Department of Computing
- Dr John Wood, Head of Department of Chemistry

The Institute's Vice President for Development and Finance Manager retired during the academic year 2013/14

The recent retirement of our esteemed colleagues, Mr Michael Delaney, the Institute’s first Head of Development and Mr John Cogan the Institute’s first Finance Manager brought their colleagues and friends within and outside the Institute down memory lane. These memories reminded us all how much the Institute has changed and progressed in the past few decades, and how much these outstanding individuals have contributed in bringing the Institute to where it is at present.

Michael retires…

A large gathering of friends, CIT colleagues and external colleagues both past and present attended a “Get Together and Presentation” on 28 August 2014 to mark and celebrate the work and achievements of Mr Michael Delaney, the first Head of Development and subsequently Vice President for Development of CIT.

While Michael will be remembered as being Vice President for Development, he joined the staff of Cork Regional Technical College as a lecturer in Biochemistry on 22 February 1977. He was appointed Head of Department of Biological Sciences in September 1983, becoming Head of Development/Vice President in December 1995. It was in this role that he was a key player in the delivery of two major Public Private Partnership projects, both of which have resulted in significant pieces of infrastructure for the entire country – CIT CSM and the NMCI.

The President stated in his speech that “not only was Michael instrumental in the delivery of the CIT Cork School of Music and the NMCI but he was also crucially involved in the development of the NIMBUS Centre, which supports research, learning and industry, CREATE, CIT’s Centre for Research in Advanced Therapeutic Engineering, and CIT’s on-campus business incubation centre, Rubicon.” On behalf of the Institute he wished Michael a long and happy retirement and he also thanked him for his loyal and outstanding service to CIT that will enable it to be a TU in the years to come.

In his speech, the Head of the NMCI, Mr Conor Mowlds stated “This year the NMCI celebrates 10 years of maritime education and training in Cork. Throughout that period, and indeed before it in the procurement phase and construction of the College, Michael Delaney was a constant and positive driving force in the growth of the NMCI. In his role as Vice President for Development and later
as Acting Head of NMCI, Michael was pivotal to many of the NMCI's most significant advancements, these include the creation of the College's commercial operations – NMCI Services – and its associated joint ventures, the Halpin Research Centre and new academic programmes for ship's Officers. Michael's depth of experience and strategic vision will be hard to replace.

A presentation was made to Michael on behalf of all his colleagues past and present, his colleagues on the Institute Executive Board and members of Governing Body past and present for his loyalty and dedication to the Institute.

A presentation was also made to Michael on behalf of his NMCI colleagues past and present as an acknowledgement of his commitment to the College.

We wish Michael a long and happy retirement with his wife Ann and his family.

**John retires…**

A Get Together and Presentation to mark the retirement of John Cogan, Finance Manager took place on 22 August 2014. A large gathering of friends and colleagues past and present attended.

John, who was the Institute’s first Finance Manager, took up duty on 8 June 1976 and in his 38 years of service had worked with our late Principal, J.P. Roche for 12 years, with our Director Dr Patrick Kelleher for 16 years, and with our current President for 10 years.

The President in his speech stated “John may have the title of Finance Manager but it is a title that is much too limiting to describe John's contribution to the founding and development of what today we call CIT. In the days of J.P. Roche, John's brief was finance, legal, dealing with the VEC and Department of Education and he continued in that role with Pat Kelleher in the 90s together with Research funded new buildings, sports facilities, student services company, CSM/Moore’s Hotel, NMCI, BCO and latterly C & AG audits, finance and audit committees of Governing Body. In short, in every CIT development John Cogan has played a pivotal role. John is a problem solver and a fountain of good advice and each Head of Department and Head of Function can testify to that. In 1993, when the Institute became autonomous, it was an enormous change for the Institute which had to come to grips with all that was now its responsibility. The one person that helped enormously with this task was John Cogan. The standard that John has set of support and facilitating will continue and that is the most important thing that John leaves us with. Today we thank John for his loyal and faithful service to CIT.”

A presentation was made to John on behalf of all his colleagues past and present and members of Governing Body past and present.

We wish John a long and happy retirement with his wife Vera and his family.
5.2 Staff Numbers

Total Staff Numbers

<table>
<thead>
<tr>
<th>Category</th>
<th>WTE</th>
<th>Headcount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
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<tr>
<td>Temporary</td>
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<td>TOTAL</td>
<td>973.57</td>
<td>1,443</td>
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</table>

Staff by Category

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<tr>
<th>Category</th>
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<td>Academic</td>
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<tr>
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<td>Technician</td>
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<td>Support</td>
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<td>TOTAL</td>
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</table>

Staff Trends – 4 Year History

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<th>Administration &amp; Library</th>
<th>Technician</th>
<th>Support</th>
<th>Student Services</th>
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<td>30.22</td>
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</table>

Total Staff Numbers (Whole-Time Equivalents)

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<th>Year</th>
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Total Staff Numbers

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<td>13/14</td>
<td>807.65</td>
<td>169.55</td>
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</table>

Staff Trends - 4 Year History (Whole-Time Equivalents)
5.3 Staff Achievements

Congratulations were extended to the following:

• Niamh Lynes on her co-option to the Board of Directors of the Irish Council for International Students (ICOS). Niamh is CIT’s first ever representative on the Board of this organisation.

• Dr Geoffrey Spratt, Director of CIT Cork School of Music, who together with his Senior Staff colleagues established Conservatoires Ireland as the representative body for the three conservatories in Ireland: the CIT CSM, the DIT Conservatory of Music & Drama, and the Royal Irish Academy of Music.

• Marc Ó Riain, Lecturer, Department of Architecture on the following awards which the Architecture Factory received:
  • the top award categories in Education, Commercial Interiors and Sustainable Reuse at the Institute of Designers Awards
  • The Irish Design Grand Prix, a runner up finalist in the International Architizer Awards
  • A'design Platinum A'Design Award at the A'design Awards Ceremony of the International Society of Designers at Lake Como, Italy

• Tim Horgan, Head of Online Delivery on his submission being shortlisted for the Engineers Ireland Best in Class Education Award. His submission “Education in the Clouds; Cloud Computing” was one of four shortlisted.

• Adrian Gregan, Head of Department of Tourism & Hospitality who was elected as the new National Representative for the European Association of Hotel and Tourism Schools (AEHT).

• Séan F. O’Leary, Senior Lecturer 1 (T), Department of Mechanical, Biomedical & Manufacturing Engineering who accepted an invitation from Engineers Ireland to act as CIT/Engineers Ireland Third Level Student Liaison Representative.

• The staff and students of the CIT CSM along with guest professional soloists and the production team for the excellent performances in the first major opera production of “The Marriage of Figaro” at the CIT CSM on 10, 11 and 12 January.

• The staff of the Department of Process, Energy and Transport Engineering and the CAPPA Centre in conjunction with the School of Pharmacy, UCC for hosting the ‘Enabling Continuous Processing Knowledge Day’ at the Institute on 31 January.

• Dr Brigid Lucey, Lecturer and Dr Aidan Coffey, Senior Lecturer 1 (T), Department of Biological Sciences, on receiving a significant capital award from Science Foundation Ireland which has been used to purchase a MALDI-TOF (Matrix-assisted laser desorption/ionization time-of-flight) Mass Spectrometer. The new instrument was set up at the collaborating Bacteriology Laboratory at CUH and the sharing of this advanced technology in Cork underpins the long-running productive research collaboration between CIT and CUH.

• Dr Margaret Linehan, Head of School of Humanities was elected Chair of the Irish Academy of Management (IAM) in April. She was also appointed to the Board of Dress for Success, a not-for-profit organisation which facilitates women re-entering the workplace. Dr Linehan is also the co-editor of Irish Business Journal.

• Dr Martin Klepal and Dr Christian Beder, NIMBUS Centre Researchers, on winning the gold medal for the most accurate infrastructure free indoor radio localisation and tracking system at a Microsoft sponsored competition at CPSWeek in Berlin, one of the world’s prestigious conferences on embedded systems research.

• Róisín O’Grady and Treasa Morgan, CIT Careers Service on winning the Silver Award in the Employability Award category for their “Employability Work Programme” which was developed and delivered in collaboration with the CIT School of Engineering and Science.

• CIT Researchers and AventaMed founders, Olive O’Driscoll and John Vaughan on winning the MedTech Idol Competition at the Invest In Innovation (IN3) Medical Device 360° conference. As winners, AventaMed represented CIT at the IN3 Medical Device 360° Summit in San Francisco.

• Caroline O’Reilly, Head of Department of Accounting & Information Systems who became a member of the Chartered Accountants Cork Society Education Initiative.

• Bernard Vallely, Lecturer, Department of Organisation & Professional Development, who developed the Chartered Accountants Ireland CAP 1 Management Accounting Examination Toolkit and had eight articles published by the Institute of Certified Public Accountants (CPA).

• Daithí Fallon, Faculty of Engineering & Science Representative, CIT Extended Campus, who was appointed Education Representative to the Irish Medical Devices Association (IMDA).
- Dr Guillaume Huyet, Acting Head of Department of Applied Physics & Instrumentation, who was appointed as a Visiting Lecturer and co-chair of the Laser System Laboratory at the National Research University in Information Technologies, Mechanics and Optics, St. Petersburg, Russia.

- Dr Breda Kenny, Head, Hincks Centre for Entrepreneurship Excellence, who was elected a Board Member, European Council for Small Business and Entrepreneurship (ECSB).

- The Department of Organisation & Professional Development who achieved ACCA Gold Educator Status and Accounting Technician Ireland Approved Educator Status. The Department was also successfully re-awarded Goldstar approval by the Institute of Certified Public Accountants in Ireland (CPA) and achieved CIPD accreditation for the MA in Human Resource Management thus graduating Advanced Level Membership of the Chartered Institute of Personnel and Development.

- Dr Vanessa Murphy, Lecturer, Department of Sport, Leisure & Childhood Studies who was appointed editor for the National Early Years Education Journal, An Leanbh Óg.

- Dr Tom O’Connor, Lecturer, Department of Applied Social Studies who was elected Chair of the Social Work Action Network (SWAN).

- Dr Judith Butler, Assistant Lecturer, Department of Sport, Leisure & Childhood Studies who was invited to be the subject matter expert for the new compound and component specifications for Early Childhood Care & Education (ECCE). Judith wrote the new courses at level 4-6 for ECCE which are now being delivered.

- Marian Quinn, Assistant Lecturer, Department of Sport, Leisure & Childhood Studies who was appointed Chairperson of the Association of Childhood Professionals. Marian is also a member of the Early Years Advisory Board of Education Matters Journal.

- Dr Irene Sheridan, Head of CIT Extended Campus was an invited member of the Practitioners Committee for the University-Industry Innovation Network Conference in Barcelona. She also was an expert evaluator for the European Commission Erasmus+ Knowledge Alliance action from April – July 2014.

- Dr Dirk Pesch, Head, NIMBUS Centre who was awarded funding for the SURF: Service-centred networking for urban-scale feedback systems project.

- GAC Training & Service Solutions (GTSS), a joint venture between the National Maritime College of Ireland (NMCI) and global shipping, logistics and marine services provider GAC on being awarded a four-year training contract with Chevron Shipping Company (CSC). It is the single largest maritime training contract in the history of the Irish state.

- The Hincks Centre for Entrepreneurship Excellence on receiving funding from the Institute of Certified Public Accountants in Ireland (CPA) Ireland Research Fund.

- Dr Ann Wilson, Lecturer, Department of Media Communications, published papers in 2013/14 in the peer-reviewed American journals “Eire-Ireland” and “New Hibernia Review”, and a chapter in the book “Emotion, Design and Material Culture” (eds Moran and O’Brien, Bloomsbury). She also presented papers in 2013 at the EFACIS Conference in NUI Galway, in NUI Maynooth and the Institute of Historical Research, London. In 2014 she presented papers at the European Social Science History Conference in Vienna, the NISC conference at Aalborg University, Denmark, and two papers at the American and Canadian Conference of Irish Studies in UCD.

- Daithí Fallon and Dr Irene Sheridan, CIT Extended Campus, in collaboration with CAMMS and the Department of Mechanical, Biomedical and Manufacturing Engineering championed the development of a novel work-based learning Level 9 Programme - Postgraduate Certificate in Professional Practice in collaboration with the HEA and the American Chamber.

- Phil O’Leary and Deirdre Goggin, CIT Extended Campus, presented on “Recognition of Prior Learning, The CIT Model” to staff of Universidad Andrés Bello, Santiago, Chile with Dr Marian McCarthy, Teaching & Learning Centre, UCC.

- Deirdre Goggin, contributor to the Cedefop “Irish Inventory report on the Validation of Informal and Non-Formal Learning 2014” on behalf of QQI.

- Elaine Boland, CIT Extended Campus, who supported the submission of 36 proposals under the CIT HEA funded Springboard Initiative (a record number to date) which yielded €1.2m in funding for the Institute.

**Staff who were appointed as External Examiners included:**

- Dr Daniel Cahill, Institute of Technology Sligo
- Gillian Carey, Limerick Institute of Technology
- Joseph Croke, Institute of Technology, Blanchardstown
- Don Crowley, Galway-Mayo Institute of Technology
- Dr Pio Fenton, Athlone Institute of Technology and Dublin Business School
• Dr Joe Harrington, Athlone Institute of Technology and Limerick Institute of Technology
• Michael Hourihan, Irish WorldSkills Expert in Electrical Installations
• Katherine Keane, Limerick Institute of Technology
• Joseph Kehoe, Southampton Solent University
• James Kilduff, Limerick Institute of Technology
• Ray Looney, Member of IrelandSkills National Competition Committee
• Niall Morris, Irish WorldSkills Expert in Mechatronics
• Tim O’Halloran, Irish WorldSkills Expert in Construction
• David O’Riordan, Irish WorldSkills Expert in Refrigeration & Air Conditioning
• Pat O’Riordan, Irish WorldSkills Expert in Plumbing & Heating
• Dr Helen O’Shea, University of Liverpool
• John Twohig, Irish Technical Delegate to WorldSkills International
• Bernard Vallely, Institute of Certified Public Accountants (CPA) and Examination Moderator for Chartered Accountants Ireland
• Des Walsh, Institute of Technology Sligo

Staff at the CIT CCAD whose work featured in recent exhibitions, workshops and residencies at National and International level:

• Debbie Dawson
• Mark Ewart
• Louise Foot
• Pamela Hardesty
• James L. Hayes
• Jesse Jones
• Roseanne Lynch
• Dr Ailbhe Ni Bhriain
• Margaret O’Brien

Staff Members who were conferred included:

• Ciaran Scully, Master of Arts in Professional Hospitality and Tourism Management
• Laura Walsh, Master of Arts in Professional Hospitality and Tourism Management
• Dr Olivia Brickley, Doctor of Philosophy
• Deirdre Creedon, Master of Arts in Teaching & Learning in Higher Education
• Anne Crowley, Master of Arts in Teaching & Learning in Higher Education
• Virginia Foley, Master of Arts in Public Relations with New Media
• Deirdre Goggin, Master of Arts in Teaching & Learning in Higher Education
• Gerardine Hayes, Master of Business
• Linda Hayes, Master of Science
• Aisling O’Driscoll, Doctor of Philosophy
• Andrea O’Driscoll, Bachelor of Business in Management
• Albert Walsh, Bachelor of Arts (Honours) in Counselling & Psychotherapy
New Appointments

The following staff were confirmed for appointment during the academic year 2013/14:

• Elaine Boland, Clerical Officer, CIT Extended Campus
• James Cahill, Clerical Officer, Finance Office
• Frances Clerkin, Assistant Lecturer, Department of Sport, Leisure & Childhood Studies
• Barry Coughlan, Legal Officer
• Emma Fitton, Assistant Staff Officer, Finance Office
• Kevin Fitzgibbon, Water Systems Innovation Coordinator, NiMBUS Centre
• Orla Flynn, Vice President for External Affairs
• Cormac Gebruers, Head of Halpin Centre, NMCI
• Shirley Gleeson, Staff Officer, Examinations Office
• Deirdre Goggin, Senior Staff Officer, CIT Extended Campus
• Vivion Gough, Head of Department of Maritime Studies, NMCI
• Nicola Griffin, Clerical Officer, Finance Office
• Síle Hammond, Clerical Officer, CIT Extended Campus
• Michael Hourihan, Head of Centre of Craft Studies
• Dr Guillaume Huyet, Head of Department of Applied Physics & Instrumentation
• Liam Lewis, Gateway Centre Manager, CAPPA Centre
• Aidan McDonald, Senior Lecturer 1 (Teaching), IT Services
• Michael McGrath, Manager, CAMMS
• Aoife Moylan, Clerical Officer, CIT Extended Campus
• Conor Mowlds, Head, NMCI
• Ruth Murphy, Staff Officer, Access Office
• Christine Nolan, Support Administrator, Access Office
• Rosalind O’Brien, Assistant Staff Officer, CIT Extended Campus
• Gerard O’Donovan, Head of Faculty of Business & Humanities
• Dr Cian O’Neill, Head of Department of Sport, Leisure & Childhood Studies
• Ellen O’Shea, Assistant Staff Officer, Students Services
• Christine O’Sullivan, Senior Technical Officer, IT Services
• Nuala Wall, Clerical Officer, CIT CCAD
6. **Finance Report**

6.1 Financial Report 2013/14

6.2 Audited Accounts 2013/14
6.1 Financial Report 2013/14

This financial report covers the period from 1 September 2013 to 31 August 2014. The results show an operating deficit of €126k, and a reduction in reserves of €0.6m reflecting a sustained phase of financial constraint. Income increased by 2.5% in the period to €98.6m and operating cost rose by 4.2% to €98.7m, driven primarily by an increase in R&D activity.

The consolidated financial statements incorporate the Institute and a number of subsidiary companies. All subsidiaries reported a profit for the period.

Income
Income increased by 2.5% from €96.2m to €98.6m during the period. The main driver was research grants and contracts which performed well. The increase in Tuition Fees was again offset by a corresponding reduction in the core State grant of €2.5m. Interest income fell significantly reflecting the decrease in cash and very low rates for deposits.

Student Numbers
The number of whole-time equivalent students grew by 4.5% from 8,871 to 9,278 during the period.

Current Expenditure
The Institute’s total current expenditure increased by 4.2% to €98.7m. Exclusive of depreciation of €6.6m, the direct costs of academic departments and research activity was €68.1m (74%), premises costs were €5.7m (6%), and administrative and support services cost €12.7m (14%) with student services costing €5.5m (6%).

Staffing Costs
The Institute’s pay bill increased marginally by €0.8m during 2013/14 and now stands at €64.2m compared with €63.4m in 2013. Staff costs account for 65% of all expenditure.

Research & Development
Income from Research Grants and Contracts inclusive of capital funding performed very well, increasing from €15.6m to €18.5m with the transfer to the capital account, which relates to building projects and research equipment funding won by the Institute remaining static at €2.8m. Operating costs increased by €2.9m corresponding to the increase in income and activity.

Reserves
For the year ending 31 August 2014, the Institute’s Reserves (excluding Deferred Capital Grants) fell from €8m to €7.4m. This was mainly accounted for by a reduction in the Capital Development Reserve for approved capital projects.
6.2 Audited Accounts 2013/14

Statement on Internal Control

Statement of Institute Responsibilities

Comptroller and Auditor General – Report for presentation to the Houses of the Oireachtas

Statement of Accounting Policies

Consolidated Income and Expenditure Account

Consolidated and Institute Balance Sheets

Consolidated Cashflow Statement

Notes to the Financial Statements
6.2.1 Statement on Internal Control

The Governing Body acknowledges its responsibility for ensuring that an effective system of internal control is maintained and operated in the Institute and for putting in place processes and procedures for the purpose of ensuring that the system is effective.

The system can provide only reasonable and not absolute assurance that assets are safeguarded, transactions authorised and properly recorded, and that material errors or irregularities are either prevented or would be detected in a timely period.

Key Control Procedures

The Governing Body has taken steps to ensure an appropriate control environment is in place by:

- Clearly defining management responsibilities.
- Developing procedures and regulations which are reviewed regularly and are documented, implemented and up to date.
- Establishing formal procedures through various committee functions to monitor the activities and safeguard the assets of the organisation (Audit Committee/Finance Committee/Strategic Development Committee).
- Adopting a Good Practice Guidelines Document which includes clear terms of reference for Governing Body Committees.
- Developing a strong culture of accountability across all levels of the organisation.

Cork Institute of Technology has developed processes to identify and evaluate business risks. This is achieved in a number of ways including:

- Developing an Essential Activities & Process Model to facilitate management and the Governing Body in identifying the key activities and the processes in place to manage its operations effectively.
- Adoption of a Risk Management Policy.
- Identifying key risks, risk owners and the controls to mitigate these risks.
- Developing annual and longer term targets and reporting on results achieved.
- Implementation of an Internal Control Framework.
- A comprehensive budgeting system with an annual budget which is reviewed and agreed by the Governing Body.
- Regular reviews by the Governing Body and its committees of periodic and annual financial reports which indicate financial performance against forecasts.
- Setting targets to measure financial and other performances.
- Clearly defined capital investment control guidelines.

The Institute is compliant with all relevant guidelines regarding procurement with the exception of a small number of instances in the year under review.

Cork Institute of Technology has an outsourced internal audit function, which is in accordance with the Internal Audit Terms of Reference approved by the Governing Body and the Code of Governance of Irish Institutes of Technology.

An Internal Audit Plan is approved by the Audit Committee annually. The plan takes account of areas of potential risk identified in a risk assessment exercise carried out with management at the start of the current planning cycle. Reports are provided to the Audit Committee on assignments carried out. These reports highlight deficiencies or weaknesses, if any, in the system of internal control and the recommended corrective measures to be taken where necessary. The Audit Committee receives regular reports on the status of issues raised.

The Governing Body’s monitoring and review of the effectiveness of the system of internal control is informed by the work of the Institute Executive and Management who have responsibility for the development and maintenance of the internal control framework, the Audit Committee, Internal Auditor, and comments made by the Comptroller and Auditor General in his management letter.

We confirm that per Section 5.2.1 of the terms of reference of the Audit Committee, as approved by the Governing Body, the review of internal controls is carried out by the Audit Committee. As such the Audit Committee reviewed the reports on Internal Controls and Internal Financial Controls for the year ended 31 August 2014 at their meeting on 30th October 2014 and approved by the Governing Body on 4 December 2014.

Signed on behalf of the Governing Body

__________________________  __________________________
Bob Savage    Dr Brendan J. Murphy
Chairman    President

4 June 2015  4 June 2015
6.2.2 Statement of Institute Responsibilities

The Institutes of Technology Acts 1992 to 2006 require the Institute to prepare financial statements in such form as may be approved by the Higher Education Authority and to submit them for audit to the Comptroller and Auditor General. In preparing these financial statements, the Institute is required to:

- select suitable accounting policies and then apply them consistently
- make judgements and estimates that are reasonable and prudent
- prepare the financial statements on the going concern basis, unless that basis is inappropriate
- disclose and explain any material departures from applicable accounting standards

The Institute is responsible for keeping proper books of account which disclose with reasonable accuracy at any time the financial position of the Institute and which enable it to ensure that the financial statements comply with the Institutes of Technology Acts 1992 to 2006. The Institute is also responsible for safeguarding its assets and for taking reasonable steps for the prevention and detection of fraud and other irregularities.

Bob Savage
Chairman

Dr Brendan J. Murphy
President

4 June 2015

Cork Institute of Technology

I have audited the consolidated financial statements of Cork Institute of Technology (the financial statements) for the year ended 31 August 2014 under the Institutes of Technology Acts 1992 to 2006. The financial statements, which have been prepared under the accounting policies set out therein, comprise the statement of accounting policies, the consolidated income and expenditure account, the consolidated and Institute balance sheets, the consolidated cash flow statement and the related notes. The financial reporting framework that has been applied in their preparation is the Institutes of Technology Acts 1992 to 2006 and generally accepted accounting practice in Ireland.

Responsibilities of the Institute

The Institute is responsible for the preparation of the financial statements, for ensuring that they give a true and fair view of the state of the Group's and Institute's affairs and of the Group's income and expenditure, and for ensuring the regularity of transactions.

Responsibilities of the Comptroller and Auditor General

My responsibility is to audit the financial statements and report on them in accordance with the Institutes of Technology Acts 1992 to 2006.

My audit is conducted by reference to the special considerations which attach to bodies in receipt of substantial funding from the State in relation to their management and operation.

My audit is carried out in accordance with the International Standards on Auditing (UK and Ireland) and in compliance with the Auditing Practices Board's Ethical Standards for Auditors.

Scope of audit of the financial statements

An audit involves obtaining evidence about the amounts and disclosures in the financial statements, sufficient to give reasonable assurance that the financial statements are free from material misstatement, whether caused by fraud or error. This includes an assessment of

- whether the accounting policies are appropriate to the Institute's circumstances, and have been consistently applied and adequately disclosed
- the reasonableness of significant accounting estimates made in the preparation of the financial statements, and
- the overall presentation of the financial statements.

I also seek to obtain evidence about the regularity of financial transactions in the course of audit.

Opinion on the financial statements

In my opinion, the financial statements, which have been properly prepared in accordance with generally accepted accounting practice in Ireland, give a true and fair view of the state of the Group's and Institute's affairs at 31 August 2014 and of the Group's income and expenditure for the year then ended.

In my opinion, proper books of account have been kept by the Institute. The financial statements are in agreement with the books of account.

Matters on which I report by exception

I report by exception if

- I have not received all the information and explanations I required for my audit, or
- my audit noted any material instance where public money have not been applied for the purposes intended or where the transactions did not conform to the authorities governing them, or
- the statement on internal control does not reflect the Institute's compliance with the Code of Governance of Irish Institutes of Technology, or
- I find there are other material matters relating to the manner in which public business has been conducted.

I have nothing to report in regard to those matters.

Seamus McCarthy
Comptroller and Auditor General
16 June 2015
6.2.4 Statement of Accounting Policies for the year ended 31 August 2014

The significant accounting policies applied by Cork Institute of Technology are as follows:

1. Basis of Preparation

The financial statements are prepared in accordance with generally accepted accounting principles in Ireland and the United Kingdom under the historical cost convention (except for certain assets which are included at valuation) and with the requirements of the Higher Education Authority. CIT Innovation Centre Limited, Cosmos Education Limited, CIT Foundation Limited and CIT Student Services Company Limited are included in the Consolidated Financial Statements.

2. Recognition of Income

State Grants:
Recurrent grants from the Higher Education Authority and other bodies are recognised in the period in which they are receivable.

Non-recurrent grants from the Higher Education Authority or other bodies received in respect of the acquisition or construction of fixed assets are treated as deferred capital grants and amortised in line with depreciation over the life of the assets.

Minor Capital Works:
The Minister for Education and Skills introduced a scheme to devolve responsibility to the Institute for Summer and other Capital Works. Where minor capital works monies, in respect of this scheme, have not been expended they are treated as deferred income, provided the projects to which they are committed have been approved by the Governing Body, are fully defined, time phased and with estimates of costs.

In all other cases minor capital works funding is recognised in the period received.

Research Grants and Contracts:
Income from Research Grants and contracts is matched to expenditure and is included in the income of the year in which the related expenditure has been incurred.

All research income and expenditure is shown under the headings ‘Research Grants and Contracts.’

Fee Income:
Fee Income is accounted for on an accruals basis.

Interest Income:
All income from short term deposits is credited to the income and expenditure account in the period in which it is earned.

3. Stocks

Expenditure on books and consumable stocks is charged to the Income and Expenditure account as incurred. Stock shown in the balance sheet relates to merchandise in Cosmos Education Limited and consumable stock in the Student Services Company Limited at 31 August 2014.

4. Fixed Assets and Depreciation

Fixed assets, with the exception of land, are stated at historical cost or valuation less accumulated depreciation. Land is stated at historical cost or valuation.

(a) Cost or Valuation
Fixed assets in existence on 1 January 1993 (date of commencement order) are stated at valuation. The basis of valuation of land and buildings is set out at Note 14. Subsequent additions are stated at cost.

Buildings under construction are accounted for at cost based on the value of the architect’s certificates and other direct costs incurred to the financial year end. They are not depreciated until they are brought into use.

(b) Equipment
All equipment valued at €3,000 and over is capitalised.
(c) Depreciation

All assets purchased before 1 September 2009 and capitalised will continue to be treated as fixed assets and depreciated to the end of their useful life.

Depreciation is provided on fixed assets, excluding land on a straight line basis so as to write off their historical costs or valuations over their estimated useful lives as follows:

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>30-50</td>
</tr>
<tr>
<td>Fixtures and Fittings incl Prefabs</td>
<td>5-10</td>
</tr>
<tr>
<td>Computer Equipment</td>
<td>3</td>
</tr>
<tr>
<td>Plant &amp; Machinery</td>
<td>10</td>
</tr>
<tr>
<td>Equipment</td>
<td>5</td>
</tr>
<tr>
<td>Motor Vehicles</td>
<td>5</td>
</tr>
</tbody>
</table>

Computer Equipment purchased before 1 September 2010 will continue to be depreciated on the basis of a four year life straight line depreciation policy. Computer equipment purchased after that date will be depreciated on a three year life straight line basis.

All equipment funded from Research Grants and Contracts is depreciated over the life of the asset in line with the policy for all other Fixed Assets.

Leased Land and Buildings are depreciated over the life of the lease.

Assets in the Student Services Company Limited are depreciated over 2-5 years – straight line.

5. Foreign Currencies

Transactions denominated in foreign currencies are translated into Euro and recorded at the rates of exchange ruling at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies are translated into Euro at the rates of exchange ruling at the Balance Sheet date.

6. Pensions

All pension entitlements of staff are conferred under a defined benefits scheme established under the Local Government (Superannuation) Act, 1980 and pension obligations are met by the Exchequer as they arise.

The superannuation scheme is operated on a Pay As You Go basis and therefore superannuation deductions made from the employees are retained by the Institute, as an agreed part of its funding.

The Institute does not make contributions towards the scheme and has no obligation in respect of entitlements.

7. Deferred Capital Grants

Deferred Capital Grants represent the amortised value of accumulated funds allocated for fixed assets.

8. Capital Development Reserve

The Capital Development Reserve represents funds set aside by the Institute for specific capital development purposes. Such funds arise from student registration fees, non-state capital donations, banking facility fees and transfers from Revenue Reserves, in the latter case which have had the prior approval of the Higher Education Authority, together with bank interest earned on these monies. Such funds shall be retained in the Capital Development Reserve Account provided the defined projects to which they are committed are in line with the Institute’s Capital Development Plan, have been approved by the Governing Body, time phased and with estimates of costs.

9. Capital Reserve – Student Services Company Limited

The transfer to the Capital Reserve relates to the receipt of funds from the closure of Trusts. The Capital Reserve is designated for future capital development to benefit student welfare.

10. Leased Assets

Rentals under operating leases are charged to the Income and Expenditure account in the period in which the expenditure is incurred.
### 6.2.5 Consolidated Income and Expenditure Account for year ended 31 August 2014

<table>
<thead>
<tr>
<th>NOTE</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>State Grant</td>
<td>1 37,120</td>
<td>39,690</td>
</tr>
<tr>
<td>Tuition Fees</td>
<td>2 31,548</td>
<td>29,032</td>
</tr>
<tr>
<td>Amortisation of Deferred Capital Grants</td>
<td>17 6,630</td>
<td>6,303</td>
</tr>
<tr>
<td>Research Grants and Contracts</td>
<td>3 15,701</td>
<td>12,775</td>
</tr>
<tr>
<td>Other Income</td>
<td>5 6,804</td>
<td>7,341</td>
</tr>
<tr>
<td>Student Support Funding Income recognised</td>
<td>4 574</td>
<td>552</td>
</tr>
<tr>
<td>Interest Income</td>
<td>174</td>
<td>477</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>98,551</strong></td>
<td><strong>96,170</strong></td>
</tr>
</tbody>
</table>

### EXPENDITURE

<table>
<thead>
<tr>
<th>EXPENDITURE</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Departments</td>
<td>6 51,750</td>
<td>51,073</td>
</tr>
<tr>
<td>Academic Services</td>
<td>7 2,620</td>
<td>2,740</td>
</tr>
<tr>
<td>Facilities Costs</td>
<td>8 5,668</td>
<td>6,239</td>
</tr>
<tr>
<td>Central Administration and Services</td>
<td>9 9,532</td>
<td>8,911</td>
</tr>
<tr>
<td>General Education Expenses</td>
<td>10 849</td>
<td>715</td>
</tr>
<tr>
<td>Student Services</td>
<td>11 5,525</td>
<td>5,535</td>
</tr>
<tr>
<td>Research Grants and Contracts</td>
<td>3 15,529</td>
<td>12,661</td>
</tr>
<tr>
<td>Student Support Funding Income applied</td>
<td>4 574</td>
<td>552</td>
</tr>
<tr>
<td>Depreciation</td>
<td>14 6,630</td>
<td>6,298</td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td><strong>98,677</strong></td>
<td><strong>94,724</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating (Deficit) / Surplus</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taxation</td>
<td>13</td>
<td>.</td>
</tr>
<tr>
<td>Transfer to Capital Development Reserve</td>
<td>18 154</td>
<td>1,737</td>
</tr>
<tr>
<td>Transfer from Capital Development Reserve</td>
<td>18 281</td>
<td>37</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accumulated Surplus at 1st September</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accumulated Surplus at 31st August</strong></td>
<td><strong>832</strong></td>
<td><strong>1,089</strong></td>
</tr>
</tbody>
</table>

There are no recognised gains or losses other than those dealt with in the Income and Expenditure Account.

The Statement of Accounting Policies, Cash Flow Statement and Notes 1-29 form part of the financial statements.

Signed on behalf of the Governing Body

Bob Savage
Chairman
4th June 2015

Dr Brendan J. Murphy
President
4th June 2015
## Consolidated and Institute Balance Sheets as at 31 August 2014

<table>
<thead>
<tr>
<th>NOTE</th>
<th>Consolidated</th>
<th></th>
<th>Institute</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2014</td>
<td>2013</td>
<td>2014</td>
<td>2013</td>
</tr>
<tr>
<td><strong>€000</strong></td>
<td></td>
<td><strong>€000</strong></td>
<td></td>
<td><strong>€000</strong></td>
</tr>
<tr>
<td><strong>FIXED ASSETS</strong></td>
<td>14</td>
<td>109,557</td>
<td>111,369</td>
<td>109,080</td>
</tr>
<tr>
<td><strong>INVESTMENTS</strong></td>
<td>23</td>
<td>255</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td><strong>CURRENT ASSETS</strong></td>
<td></td>
<td>109,812</td>
<td>111,419</td>
<td>109,130</td>
</tr>
<tr>
<td>Debtors &amp; Prepayments</td>
<td>15</td>
<td>21,806</td>
<td>20,210</td>
<td>21,726</td>
</tr>
<tr>
<td>Stock</td>
<td></td>
<td>100</td>
<td>83</td>
<td>-</td>
</tr>
<tr>
<td>Cash at bank and in hand</td>
<td></td>
<td>11,702</td>
<td>18,637</td>
<td>10,815</td>
</tr>
<tr>
<td><strong>CURRENT LIABILITIES</strong></td>
<td></td>
<td>33,608</td>
<td>38,930</td>
<td>32,541</td>
</tr>
<tr>
<td>Creditors and Accrued Expenses – Amounts falling due within one year</td>
<td>16</td>
<td>26,501</td>
<td>30,982</td>
<td>26,340</td>
</tr>
<tr>
<td><strong>NET CURRENT ASSETS</strong></td>
<td></td>
<td>7,107</td>
<td>7,948</td>
<td>6,201</td>
</tr>
<tr>
<td><strong>NET ASSETS</strong></td>
<td></td>
<td>116,919</td>
<td>119,367</td>
<td>115,331</td>
</tr>
<tr>
<td>Represented by</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deferred Capital Grants</td>
<td>17</td>
<td>109,557</td>
<td>111,369</td>
<td>109,080</td>
</tr>
<tr>
<td>Income and Expenditure Account</td>
<td></td>
<td>833</td>
<td>832</td>
<td>43</td>
</tr>
<tr>
<td>Capital Reserve – Student Services Co Ltd</td>
<td></td>
<td>321</td>
<td>321</td>
<td>-</td>
</tr>
<tr>
<td>Capital Development Reserve</td>
<td>18</td>
<td>6,208</td>
<td>6,845</td>
<td>6,208</td>
</tr>
<tr>
<td><strong>Represented by</strong></td>
<td></td>
<td>116,919</td>
<td>119,367</td>
<td>115,331</td>
</tr>
</tbody>
</table>

The Statement of Accounting Policies, Cash Flow Statement and Notes 1-29 form part of the financial statements.

Signed on behalf of the Governing Body

---

**Bob Savage**  
Chairman  
4th June 2015

**Dr Brendan J. Murphy**  
President  
4th June 2015
### Consolidated Cashflow Statement for the year ended 31 August 2014

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconciliation of operating (deficit) / surplus to net cash outflow from operating activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating (deficit) / surplus</td>
<td>(126)</td>
<td>1,446</td>
</tr>
<tr>
<td>Interest Income</td>
<td>(174)</td>
<td>(477)</td>
</tr>
<tr>
<td>Depreciation</td>
<td>6,630</td>
<td>6,298</td>
</tr>
<tr>
<td>Amortisation in line with asset depreciation</td>
<td>(6,630)</td>
<td>(6,303)</td>
</tr>
<tr>
<td>Loss on Disposal of Fixed Assets</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Taxation</td>
<td>-</td>
<td>(3)</td>
</tr>
<tr>
<td>Increase in Investments</td>
<td>(205)</td>
<td>-</td>
</tr>
<tr>
<td>Increase in Stock</td>
<td>(17)</td>
<td>(20)</td>
</tr>
<tr>
<td>Increase in Debtors</td>
<td>(1,596)</td>
<td>(14,194)</td>
</tr>
<tr>
<td>(Decrease) / Increase in short term Creditors</td>
<td>(4,481)</td>
<td>11,746</td>
</tr>
<tr>
<td><strong>Net cash outflow from operating activities</strong></td>
<td>(6,599)</td>
<td>(1,502)</td>
</tr>
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</table>

### Cashflow Statement

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net cash outflow from operating activities</strong></td>
<td>(6,599)</td>
<td>(1,502)</td>
</tr>
<tr>
<td>Interest Received</td>
<td>174</td>
<td>477</td>
</tr>
</tbody>
</table>

### Capital Expenditure

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payments to acquire Fixed Assets</td>
<td>(4,818)</td>
<td>(8,586)</td>
</tr>
<tr>
<td><strong>Net Cash Outflow for capital expenditure</strong></td>
<td>(4,818)</td>
<td>(8,586)</td>
</tr>
</tbody>
</table>

### Financing

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Capital Grants spent on Fixed Assets</td>
<td>344</td>
<td>1,515</td>
</tr>
<tr>
<td>State Recurrent Grants spent on Fixed Assets</td>
<td>935</td>
<td>2,422</td>
</tr>
<tr>
<td>Other funds spent on Fixed Assets</td>
<td>3,029</td>
<td>2,877</td>
</tr>
<tr>
<td><strong>Net Cash Inflow from Financing</strong></td>
<td>4,308</td>
<td>6,814</td>
</tr>
<tr>
<td>Decrease in Cash</td>
<td>(6,935)</td>
<td>(2,797)</td>
</tr>
</tbody>
</table>

### Reconciliation of net cash flow to movement in net funds

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decrease in Cash</td>
<td>(6,935)</td>
<td>(2,797)</td>
</tr>
<tr>
<td>Net opening funds</td>
<td>18,637</td>
<td>21,434</td>
</tr>
<tr>
<td>Net Funds at 31 August</td>
<td>11,702</td>
<td>18,637</td>
</tr>
</tbody>
</table>

The Statement of Accounting Policies, Cash Flow Statement and Notes 1-29 form part of the financial statements.

Signed on behalf of the Governing Body

Bob Savage
Chairman
4th June 2015

Dr Brendan J. Murphy
President
4th June 2015
6.2.8 Notes to the Financial Statements

1. STATE GRANTS

<table>
<thead>
<tr>
<th></th>
<th>Allocated for recurrent expenditure</th>
<th>Allocated for capital expenditure</th>
<th>Total 2014</th>
<th>Total 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>State grant for recurrent expenditure – HEA</td>
<td>37,066</td>
<td>935</td>
<td>38,001</td>
<td>41,459</td>
</tr>
<tr>
<td>State grant for capital expenditure - DOES</td>
<td>32</td>
<td>237</td>
<td>269</td>
<td>177</td>
</tr>
<tr>
<td>State grant for minor capital works - DOES</td>
<td>22</td>
<td>107</td>
<td>129</td>
<td>1,394</td>
</tr>
<tr>
<td><strong>Total - 2014</strong></td>
<td><strong>37,120</strong></td>
<td><strong>1,279</strong></td>
<td><strong>38,399</strong></td>
<td><strong>43,030</strong></td>
</tr>
</tbody>
</table>

The total cost of certain Higher Certificate and Ordinary Degree courses is subvented by the European Social Fund (ESF) at national level. State Grants for Recurrent Expenditure are partly funded from this EU assistance. The HEA paid an additional €780k and €1.325m which was transferred to the IoTi and the HEANet respectively.

2. TUITION FEES

<table>
<thead>
<tr>
<th></th>
<th>Student No (WTE)</th>
<th>€000</th>
<th>Student No (WTE)</th>
<th>€000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fees Paid by State</td>
<td>6,313</td>
<td>6,234</td>
<td>6,258</td>
<td>7,689</td>
</tr>
<tr>
<td>Non-EU Fees</td>
<td>144</td>
<td>864</td>
<td>146</td>
<td>428</td>
</tr>
<tr>
<td>Fees paid by students or on behalf of students</td>
<td>1,060</td>
<td>2,061</td>
<td>838</td>
<td>1,475</td>
</tr>
<tr>
<td>Life Long Learning and Other Fees</td>
<td>1,761</td>
<td>5,830</td>
<td>1,629</td>
<td>5,114</td>
</tr>
<tr>
<td>Student Contribution</td>
<td>16,761</td>
<td></td>
<td>14,440</td>
<td></td>
</tr>
<tr>
<td>Allocated to Capital</td>
<td>(202)</td>
<td></td>
<td>(114)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>9,278</strong></td>
<td><strong>31,548</strong></td>
<td><strong>8,871</strong></td>
<td><strong>29,032</strong></td>
</tr>
</tbody>
</table>

The HEA paid tuition fees in the year of €4.954m for full time degree courses and €1.280m for higher certificate and ordinary degree courses and €1.105m for Springboard, the total costs of which are part funded by the ESF. SUSI paid fees in the year of €6.258m in 2014 (€3.488m in 2013).

Student numbers are stated as wholetime equivalents, based on enrolled credits.
3. RESEARCH GRANTS AND CONTRACTS

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income</td>
<td>18,515</td>
<td>15,644</td>
</tr>
<tr>
<td>Transfer to Capital Account</td>
<td>2,814</td>
<td>(2,869)</td>
</tr>
<tr>
<td></td>
<td>15,701</td>
<td>12,775</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenditure</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>6,818</td>
<td>6,182</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non Pay Costs</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials &amp; Other Consumables</td>
<td>566</td>
<td>479</td>
</tr>
<tr>
<td>Computer Costs</td>
<td>206</td>
<td>198</td>
</tr>
<tr>
<td>General Education</td>
<td>1,370</td>
<td>1,217</td>
</tr>
<tr>
<td>Services to Students</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Research Costs</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Project Partners</td>
<td>2,308</td>
<td>966</td>
</tr>
<tr>
<td>Equipment</td>
<td>384</td>
<td>294</td>
</tr>
<tr>
<td>Premises Costs</td>
<td>972</td>
<td>535</td>
</tr>
<tr>
<td>Travel &amp; Subsistence</td>
<td>869</td>
<td>839</td>
</tr>
<tr>
<td>Personnel Costs</td>
<td>213</td>
<td>231</td>
</tr>
<tr>
<td>Professional Fees</td>
<td>1,313</td>
<td>1,279</td>
</tr>
<tr>
<td>Communications</td>
<td>60</td>
<td>64</td>
</tr>
<tr>
<td>Stationery &amp; Office Materials</td>
<td>265</td>
<td>247</td>
</tr>
<tr>
<td>General Advertising &amp; Publicity</td>
<td>101</td>
<td>94</td>
</tr>
<tr>
<td>Insurance</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Finance Costs</td>
<td>38</td>
<td>13</td>
</tr>
<tr>
<td>Other</td>
<td>33</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>15,529</td>
<td>12,661</td>
</tr>
</tbody>
</table>

| Net Outcome                         | 172  | 114  |

 Included in the Research Grant and Contract Income is an amount of €630k in respect of overhead recovery. The balance represents direct costs recovered for research work undertaken as outlined under Expenditure headings above. The HEA paid grants towards Research & Development of €1.199m in 2014 (€1.592m 2013).
4. STUDENT SUPPORT FUNDING

<table>
<thead>
<tr>
<th></th>
<th>Disabilities</th>
<th>Student Assistance</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance at 1 September 2013</td>
<td>33</td>
<td>116</td>
<td>149</td>
<td>272</td>
</tr>
<tr>
<td>Receipts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Higher Education Authority</td>
<td>178</td>
<td>260</td>
<td>438</td>
<td>429</td>
</tr>
<tr>
<td>Allocated to Capital</td>
<td>(13)</td>
<td>-</td>
<td>(13)</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>165</td>
<td>260</td>
<td>425</td>
<td>429</td>
</tr>
<tr>
<td>Amounts Applied – Pay &amp; Non Pay</td>
<td>198</td>
<td>376</td>
<td>574</td>
<td>552</td>
</tr>
<tr>
<td>Balance at 31 August 2014</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>149</td>
</tr>
</tbody>
</table>

Funding is provided by the Higher Education Authority under the National Development Plan and is part funded by the European Social Fund.

5. OTHER INCOME

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>€000</td>
<td>€000</td>
<td></td>
</tr>
<tr>
<td>Superannuation Deductions Retained</td>
<td>3,509</td>
<td>3,562</td>
</tr>
<tr>
<td>Rental of Facilities</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>State Grant - HEA</td>
<td>23</td>
<td>448</td>
</tr>
<tr>
<td>CIT Student Services Company Limited</td>
<td>3,218</td>
<td>3,257</td>
</tr>
<tr>
<td>Sundry Income</td>
<td>51</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td>6,804</td>
<td>7,341</td>
</tr>
</tbody>
</table>

The income from the CIT Student Services Company Limited is generated from the provision of a mini market, bistro, shop and canteen services to the students of CIT.
### 6. ACADEMIC DEPARTMENTS

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>€46,010</td>
<td>€45,880</td>
</tr>
<tr>
<td>Non Pay Costs</td>
<td>€5,740</td>
<td>€5,193</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>€51,750</strong></td>
<td><strong>€51,073</strong></td>
</tr>
</tbody>
</table>

### 7. ACADEMIC SUPPORT SERVICES

<table>
<thead>
<tr>
<th></th>
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<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>€1,751</td>
<td>€1,794</td>
</tr>
<tr>
<td>Non Pay Costs</td>
<td>€869</td>
<td>€946</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>€2,620</strong></td>
<td><strong>€2,740</strong></td>
</tr>
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</table>

### 8. FACILITIES COSTS

<table>
<thead>
<tr>
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<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>€1,357</td>
<td>€1,460</td>
</tr>
<tr>
<td>Non Pay Costs</td>
<td>€4,311</td>
<td>€4,779</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>€5,668</strong></td>
<td><strong>€6,239</strong></td>
</tr>
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</table>

### 9. CENTRAL ADMINISTRATION AND SERVICES

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>€5,806</td>
<td>€5,556</td>
</tr>
<tr>
<td>Non Pay Costs</td>
<td>€3,726</td>
<td>€3,355</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>€9,532</strong></td>
<td><strong>€8,911</strong></td>
</tr>
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</table>

### 10. GENERAL EDUCATION EXPENSES

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff Costs</td>
<td>€460</td>
<td>€525</td>
</tr>
<tr>
<td>Non Pay Costs</td>
<td>€389</td>
<td>€190</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>€849</strong></td>
<td><strong>€715</strong></td>
</tr>
</tbody>
</table>

---

annual report 13/14
### 11. STUDENT SERVICES

<table>
<thead>
<tr>
<th></th>
<th>2014 €000</th>
<th>2013 €000</th>
<th>2014 €000</th>
<th>2013 €000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Staff Costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subvention to Clubs, Societies and Students’ Union</td>
<td>204</td>
<td>700</td>
<td>904</td>
<td>898</td>
</tr>
<tr>
<td>Student Services</td>
<td>201</td>
<td>395</td>
<td>596</td>
<td>591</td>
</tr>
<tr>
<td>Careers Advisory Services</td>
<td>167</td>
<td>226</td>
<td>393</td>
<td>387</td>
</tr>
<tr>
<td>Sports and Recreation</td>
<td>31</td>
<td>290</td>
<td>321</td>
<td>363</td>
</tr>
<tr>
<td>Health &amp; Counselling</td>
<td>131</td>
<td>131</td>
<td>262</td>
<td>242</td>
</tr>
<tr>
<td>Student Services Co Ltd</td>
<td>1,164</td>
<td>1,885</td>
<td>3,049</td>
<td>3,054</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1,898</td>
<td>3,627</td>
<td>5,525</td>
<td>5,535</td>
</tr>
</tbody>
</table>

The expenditure relating to Student Services Company Limited relates to the provision of a mini market, bistro, shop and canteen services to the students in CIT.

### 12. ANALYSIS OF EXPENDITURE

<table>
<thead>
<tr>
<th></th>
<th>2014 €000</th>
<th>Depreciation</th>
<th>2013 €000</th>
<th>Other operating expenses</th>
<th>2014 €000</th>
<th>2013 €000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Staff Costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Grants and Contracts</td>
<td>6,818</td>
<td>1,319</td>
<td>8,711</td>
<td>16,848</td>
<td>13,927</td>
<td></td>
</tr>
<tr>
<td>Academic Departments</td>
<td>46,010</td>
<td>1,574</td>
<td>5,740</td>
<td>53,324</td>
<td>52,344</td>
<td></td>
</tr>
<tr>
<td>Academic Support Services</td>
<td>1,751</td>
<td>624</td>
<td>869</td>
<td>3,244</td>
<td>3,399</td>
<td></td>
</tr>
<tr>
<td>Facilities Costs</td>
<td>1,357</td>
<td>1,478</td>
<td>4,311</td>
<td>7,146</td>
<td>7,608</td>
<td></td>
</tr>
<tr>
<td>Central Administration and Services</td>
<td>5,806</td>
<td>1,441</td>
<td>3,726</td>
<td>10,973</td>
<td>10,347</td>
<td></td>
</tr>
<tr>
<td>General Education Expenses</td>
<td>460</td>
<td>-</td>
<td>389</td>
<td>849</td>
<td>715</td>
<td></td>
</tr>
<tr>
<td>Student Support Funding</td>
<td>86</td>
<td>-</td>
<td>488</td>
<td>574</td>
<td>557</td>
<td></td>
</tr>
<tr>
<td>Student Services &amp; Amenities</td>
<td>1,898</td>
<td>194</td>
<td>3,627</td>
<td>5,719</td>
<td>5,827</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>64,186</td>
<td>6,630</td>
<td>27,861</td>
<td>98,677</td>
<td>94,724</td>
<td></td>
</tr>
</tbody>
</table>

| 2014 Total              | 64,186    | 6,630        | 27,861    | 98,677                   | 94,724    |
| 2013 Total              | 63,353    | 6,298        | 25,073    |                          |           |
Analysis of Other Operating Expenditure

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Materials &amp; other Consumables</td>
<td>3,232</td>
<td>3,109</td>
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<tr>
<td>Library Materials</td>
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<td>Computer costs</td>
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<td>General Education</td>
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<td>Research costs</td>
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<td>Project Partners</td>
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<td>Equipment</td>
<td>1,036</td>
<td>1,037</td>
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<td>Premises Costs</td>
<td>6,109</td>
<td>5,235</td>
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<tr>
<td>Travel &amp; Subsistence/Hospitality &amp; Seminars</td>
<td>2,364</td>
<td>2,025</td>
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<td>Personnel Costs</td>
<td>1,037</td>
<td>1,159</td>
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<td>Professional fees</td>
<td>4,461</td>
<td>4,435</td>
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<td>Auditors Remuneration</td>
<td>33</td>
<td>34</td>
</tr>
<tr>
<td>Communications</td>
<td>271</td>
<td>280</td>
</tr>
<tr>
<td>Stationery &amp; office materials</td>
<td>1,015</td>
<td>1,000</td>
</tr>
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<td>General advertising &amp; Publicity</td>
<td>1,971</td>
<td>423</td>
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<tr>
<td>Insurance</td>
<td>323</td>
<td>314</td>
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<tr>
<td>Bad Debt Provision</td>
<td>430</td>
<td>207</td>
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<tr>
<td>Finance costs</td>
<td>101</td>
<td>125</td>
</tr>
<tr>
<td>Loss on asset disposal</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Other</td>
<td>79</td>
<td>191</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>27,861</td>
<td>25,073</td>
</tr>
</tbody>
</table>

13. **TAXATION**

None of the activities of the Institute, other than the Innovation Centre, are liable to Corporation Taxation under the Charitable Status obtained in January 1993 by the Department of Education.
### FIXED ASSETS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cost or valuation</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
<td><strong>€000</strong></td>
</tr>
<tr>
<td>At 1 September 2013</td>
<td>188,404</td>
<td>138,850</td>
<td>2,734</td>
<td>10,188</td>
<td>12,600</td>
<td>4,728</td>
<td>18,903</td>
<td>401</td>
<td></td>
</tr>
<tr>
<td>Additions</td>
<td>4,818</td>
<td>5,515</td>
<td>(2,734)</td>
<td>161</td>
<td>531</td>
<td>607</td>
<td>729</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Disposals</td>
<td>(1,114)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(540)</td>
<td>-</td>
<td>(553)</td>
<td>(21)</td>
<td></td>
</tr>
<tr>
<td><strong>192,108</strong></td>
<td><strong>144,365</strong></td>
<td><strong>10,349</strong></td>
<td><strong>12,591</strong></td>
<td><strong>5,335</strong></td>
<td><strong>19,079</strong></td>
<td><strong>389</strong></td>
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<td></td>
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</tbody>
</table>

### Depreciation

<table>
<thead>
<tr>
<th><strong>Depreciation</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>At 1 September 2013</td>
<td>77,035</td>
<td>37,594</td>
<td>-</td>
<td>7,869</td>
<td>11,512</td>
<td>2,689</td>
<td>17,000</td>
<td>371</td>
</tr>
<tr>
<td>Charge for year</td>
<td>6,630</td>
<td>3,831</td>
<td>-</td>
<td>630</td>
<td>903</td>
<td>427</td>
<td>827</td>
<td>12</td>
</tr>
<tr>
<td>Disposals</td>
<td>(1,114)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(540)</td>
<td>-</td>
<td>(553)</td>
<td>(21)</td>
</tr>
<tr>
<td><strong>82,551</strong></td>
<td><strong>41,425</strong></td>
<td><strong>8,499</strong></td>
<td><strong>11,875</strong></td>
<td><strong>3,116</strong></td>
<td><strong>17,274</strong></td>
<td><strong>362</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Net Book Value

<table>
<thead>
<tr>
<th><strong>Net Book Value</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
<th><strong>€000</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>At 31 August 2014</td>
<td>109,557</td>
<td>102,940</td>
<td>-</td>
<td>1,850</td>
<td>716</td>
<td>2,219</td>
<td>1,805</td>
<td>27</td>
</tr>
<tr>
<td>Net Book Value At 31 August 2013</td>
<td>111,369</td>
<td>101,256</td>
<td>2,734</td>
<td>2,319</td>
<td>1,088</td>
<td>2,039</td>
<td>1,903</td>
<td>30</td>
</tr>
</tbody>
</table>

### Cost or Valuation:

Land and Buildings in existence on 1 January 1993 were valued by the Valuation Office. Other fixed assets in existence on that date were valued by the Institute on the basis of open market value for existing use. Subsequent additions are stated at cost.

CIT has commitments on properties leased for academic use amounting to €455k (2013 - €705k)
### 14. FIXED ASSETS continued

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Buildings</th>
<th>Buildings in Course of Construction</th>
<th>Fixtures &amp; Fittings incl. Prefabs</th>
<th>Computer Equipment</th>
<th>Plant &amp; Machinery</th>
<th>Equipment &amp; Machinery</th>
<th>Motor Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSTITUTE ONLY</strong></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Cost or valuation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At 1 September 2013</td>
<td>186,559</td>
<td>138,729</td>
<td>2,734</td>
<td>8,619</td>
<td>12,533</td>
<td>4,728</td>
<td>18,815</td>
<td>401</td>
</tr>
<tr>
<td>Additions</td>
<td>4,731</td>
<td>5,515</td>
<td>(2,734)</td>
<td>116</td>
<td>529</td>
<td>606</td>
<td>689</td>
<td>10</td>
</tr>
<tr>
<td>Disposals</td>
<td>(1,114)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(540)</td>
<td>-</td>
<td>(553)</td>
<td>(21)</td>
</tr>
<tr>
<td></td>
<td>190,176</td>
<td>144,244</td>
<td></td>
<td>8,735</td>
<td>12,522</td>
<td>5,334</td>
<td>18,951</td>
<td>390</td>
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</table>

**Depreciation**

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Buildings</th>
<th>Buildings in Course of Construction</th>
<th>Fixtures &amp; Fittings incl. Prefabs</th>
<th>Computer Equipment</th>
<th>Plant &amp; Machinery</th>
<th>Equipment &amp; Machinery</th>
<th>Motor Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 1 September 2013</td>
<td>75,782</td>
<td>37,544</td>
<td>-</td>
<td>6,768</td>
<td>11,457</td>
<td>2,689</td>
<td>16,953</td>
<td>371</td>
</tr>
<tr>
<td>Charge for year</td>
<td>6,428</td>
<td>3,806</td>
<td>-</td>
<td>485</td>
<td>895</td>
<td>427</td>
<td>802</td>
<td>13</td>
</tr>
<tr>
<td>Disposals</td>
<td>(1,114)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>(540)</td>
<td>-</td>
<td>(553)</td>
<td>(21)</td>
</tr>
<tr>
<td></td>
<td>81,096</td>
<td>41,350</td>
<td>-</td>
<td>7,253</td>
<td>11,812</td>
<td>3,116</td>
<td>17,202</td>
<td>363</td>
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</tbody>
</table>

**Net Book Value**

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Buildings</th>
<th>Buildings in Course of Construction</th>
<th>Fixtures &amp; Fittings incl. Prefabs</th>
<th>Computer Equipment</th>
<th>Plant &amp; Machinery</th>
<th>Equipment &amp; Machinery</th>
<th>Motor Vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>At 31 August 2014</td>
<td>109,080</td>
<td>102,894</td>
<td>-</td>
<td>1,482</td>
<td>710</td>
<td>2,218</td>
<td>1,749</td>
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<td>Net Book Value</td>
<td>110,777</td>
<td>101,185</td>
<td>2,734</td>
<td>1,851</td>
<td>1,076</td>
<td>2,039</td>
<td>1,862</td>
<td>30</td>
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</tbody>
</table>

**Cost or Valuation:**

Land and Buildings in existence on 1 January 1993 were valued by the Valuation Office. Other fixed assets in existence on that date were valued by the Institute on the basis of open market value for existing use. Subsequent additions are stated at cost.

CIT has commitments on properties leased for academic use amounting to €341k (2013 - €519k).
### 15. DEBTORS AND PREPAYMENTS

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Tuition Fees</td>
<td>14,940</td>
<td>15,073</td>
<td>14,940</td>
<td>15,073</td>
</tr>
<tr>
<td>State &amp; Other Capital Grant</td>
<td>- 132</td>
<td></td>
<td>132</td>
<td></td>
</tr>
<tr>
<td>Research Grants and Contracts</td>
<td>5,151</td>
<td>3,614</td>
<td>5,119</td>
<td>3,500</td>
</tr>
<tr>
<td>Prepayments and Accrued Income</td>
<td>447</td>
<td>404</td>
<td>453</td>
<td>412</td>
</tr>
<tr>
<td>Other debtors</td>
<td>1,268</td>
<td>987</td>
<td>1,214</td>
<td>868</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>21,806</td>
<td>20,210</td>
<td>21,726</td>
<td>19,985</td>
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</table>

### 16. CREDITORS AND ACCRUED EXPENSES

**AMOUNTS FALLING DUE WITHIN ONE YEAR**

**Payments Received in Advance.**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Research Grants and Contracts</td>
<td>5,329</td>
<td>8,093</td>
<td>5,202</td>
<td>7,919</td>
</tr>
<tr>
<td>Deferred Income Student Support Funding</td>
<td>- 149</td>
<td></td>
<td>149</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>5,329</td>
<td>8,242</td>
<td>5,202</td>
<td>8,068</td>
</tr>
<tr>
<td>Trade Creditors and Accruals</td>
<td>140</td>
<td>579</td>
<td>75</td>
<td>409</td>
</tr>
<tr>
<td>State Capital Grant</td>
<td>- 130</td>
<td></td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>PAYE</td>
<td>1,162</td>
<td>1,122</td>
<td>1,131</td>
<td>1,093</td>
</tr>
<tr>
<td>PRSI</td>
<td>567</td>
<td>553</td>
<td>557</td>
<td>529</td>
</tr>
<tr>
<td>Income Tax Withheld</td>
<td>37</td>
<td>36</td>
<td>37</td>
<td>36</td>
</tr>
<tr>
<td>Other Creditors</td>
<td>184</td>
<td>388</td>
<td>141</td>
<td>370</td>
</tr>
<tr>
<td>Accruals and Deferred Income</td>
<td>19,082</td>
<td>19,322</td>
<td>19,197</td>
<td>19,744</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>21,172</td>
<td>22,740</td>
<td>21,138</td>
<td>22,311</td>
</tr>
<tr>
<td><strong>26,501</strong></td>
<td>30,982</td>
<td>26,340</td>
<td>30,379</td>
<td></td>
</tr>
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</table>

### 17. DEFERRED CAPITAL GRANTS

**Opening Balance**

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<thead>
<tr>
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<th>2013</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Capital Grants Receivable</td>
<td>111,369</td>
<td>109,569</td>
<td>110,777</td>
<td>109,204</td>
</tr>
<tr>
<td>State Capital Grants – DOES</td>
<td>237</td>
<td>132</td>
<td>237</td>
<td>132</td>
</tr>
<tr>
<td>Allocated from State Recurrent Grant – HEA</td>
<td>935</td>
<td>1,825</td>
<td>935</td>
<td>1,825</td>
</tr>
<tr>
<td>Tuition Fees</td>
<td>202</td>
<td>114</td>
<td>202</td>
<td>114</td>
</tr>
<tr>
<td>Registration</td>
<td>- 8</td>
<td></td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Research Grants &amp; Contracts</td>
<td>2,814</td>
<td>2,869</td>
<td>2,772</td>
<td>2,831</td>
</tr>
<tr>
<td>State grant for minor capital works – DOES</td>
<td>107</td>
<td>1,383</td>
<td>107</td>
<td>1,383</td>
</tr>
<tr>
<td>Student Support</td>
<td>13</td>
<td>13</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transfer from Capital Development Reserve</td>
<td>510</td>
<td>1,772</td>
<td>465</td>
<td>1,414</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>116,187</td>
<td>117,672</td>
<td>115,508</td>
<td>116,911</td>
</tr>
</tbody>
</table>

**Release to Income**

<table>
<thead>
<tr>
<th></th>
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<th>2013</th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
<td>€000</td>
</tr>
<tr>
<td>Amortisation in line with asset depreciation</td>
<td>(6,630)</td>
<td>(6,298)</td>
<td>(6,428)</td>
<td>(6,132)</td>
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<tr>
<td>Amount released on disposal of Fixed Assets</td>
<td>-</td>
<td>(5)</td>
<td>-</td>
<td>(2)</td>
</tr>
<tr>
<td><strong>Closing Balance</strong></td>
<td>109,557</td>
<td>111,369</td>
<td>109,080</td>
<td>110,777</td>
</tr>
</tbody>
</table>
### 18. CAPITAL DEVELOPMENT RESERVE

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance 1 September</td>
<td>6,845</td>
<td>6,917</td>
</tr>
<tr>
<td>Transfer from Income and Expenditure Account</td>
<td>154</td>
<td>1,737</td>
</tr>
<tr>
<td>Transfer to Expenditure – Self Funding</td>
<td>(281)</td>
<td>(37)</td>
</tr>
<tr>
<td>Transfer to Capital Account</td>
<td>(510)</td>
<td>(1,772)</td>
</tr>
<tr>
<td>Balance 31 August</td>
<td>6,208</td>
<td>6,845</td>
</tr>
</tbody>
</table>

The transfer to Reserve of €154k is made up of €58k from Student Registration Fees, €45k from CIT Student Services Company Limited and €51k interest earned. The transfer of Expenditure of €281k is made up of €184k for Sports Facilities and €97k for health and safety works.

### 19. CAPITAL COMMITMENTS CONTRACTED FOR BUT NOT PROVIDED

The value of capital commitments entered into and outstanding at 31 August 2014 amounted to €92k.

### 20. STUDENT MAINTENANCE GRANTS

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receipts from the Department of Education and Skills (Colleges Section)</td>
<td>746</td>
<td>1,686</td>
</tr>
<tr>
<td>Payments to Students</td>
<td>(584)</td>
<td>(1,329)</td>
</tr>
<tr>
<td>Payments to Students (top ups)</td>
<td>(162)</td>
<td>(357)</td>
</tr>
<tr>
<td>Net Cash Inflow</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

The Institute processes payments to students in respect of ESF maintenance grants which are notified by the relevant VEC or Local Authority. Funding for these payments is provided by the Department of Education and Skills with cofunding provided by the European Social Fund (ESF). These transactions are not included separately in the Income and Expenditure Account. These payments are being phased out with the introduction of SUSI in 2012/13.

### 21. EMPLOYEES

The average number of staff employed by the Institute for the year ended 31 August 2014 was 1,220 (2013: 1,162).
22. **SUBSIDIARY COMPANIES**

A company, CIT Innovation Centre Limited, was established by the Institute in August 2004. For the purpose of preparing the financial statements of CIT it was necessary to consolidate the activities of CIT Innovation Centre Limited. The company showed a profit for the year of €10,817 (2013 - €17,730) while net assets for the year amounted to €35,223 (2013 - €31,650).

A company, Cosmos Education Limited, was established by the Institute in January 2008. For the purpose of preparing the financial statements of CIT it was necessary to consolidate the activities of Cosmos Education Limited. The company showed a profit for the year of €11,344 (2013 – loss €8,703) while net assets for the year amounted to €58,013 (2013 - €27,397).

A company, CIT Student Services Company Limited, was incorporated by the Institute in 1994. For the purpose of preparing the financial statements of CIT it was necessary to consolidate the activities of CIT Student Services Company Limited from September 2012. The company showed a profit for the year of €25,313 (2013 - €81,189) while net assets for the year amounted to €1,141,992 (2013 - €1,116,679).

A company, CIT Foundation Limited, was established by the Institute in July 2007. For the purpose of preparing the financial statements of CIT it was necessary to consolidate the activities of CIT Foundation Limited. The company showed a profit for the year of €138,818 (2013 – profit €46,722) while net assets for the year amounted to €318,752 (2013 - €179,934).

23. **INVESTMENTS**

Cork Institute of Technology have entered into joint venture arrangements with GAC Training and Service Solutions Limited with effect from 11 February, 2010 and SEFtec NMCI Offshore Training Limited with affect from 31 May 2010. Cork Institute of Technology hold 25,000 shares in each company and this comprises a 50% shareholding.

In May 2013 Cork Institute of Technology took a 10% shareholding in nSilcio at a value of €0.01 per share (15,384 shares) in accordance with the CIT Campus Company Policy. The purpose of the policy is to provide transparent structures and procedures around the establishment of an ongoing relationship between Campus Companies and the Institute.

CIT Student Services Co Ltd invested €220k in a BCP Split Deposit Absolute Return Bond 8. The investment was made on 20 March 2014 to maximise the return on company funds. 25% of the funds are invested in a 12 month high yield deposit account and 75% in a 5 year 3 month absolute return bond. 100% capital security is provided. The movement on the market value of the investment was €4,769 in the year.

24. **THE NATIONAL MARITIME COLLEGE OF IRELAND & CORK SCHOOL OF MUSIC**

The National Maritime College of Ireland (NMCI) is a partnership between Cork Institute of Technology (CIT), the Irish Naval Service, the Department of Education and Skills, the Department of the Agriculture, Food and the Marine and the Department of Defence. The land on which the NMCI is constructed is the property of the Department of Education and Skills.

The Cork School of Music is a partnership between Cork Institute of Technology and the Department of Education and Skills. The land on which the Cork School of Music is constructed is the property of the Department of Education and Skills.

CIT academic, technical, administrative and support staff in the Cork School of Music and the NMCI remain employees of CIT.

25. **INCREMENTAL ENTITLEMENTS**

In prior years a High Court claim was made against Cork Institute of Technology (CIT) for alleged incremental entitlements. Conciliation efforts subsequent to the preliminary hearing were not successful and as a consequence CIT has concluded it is necessary to appeal the preliminary High Court ruling to the Supreme Court. The office of the Court of Appeal have advised that it is unlikely that this matter will get a date until 2016.
26. PROPOSED MERGER WITH IT TRALEE

CIT and IT Tralee (ITT) together are currently undertaking a process to become a technological university. We, the Munster Technological University (MTU) partners, have two objectives: firstly, to merge to form a single unified institution with a distinct and distinctive mission/vision and secondly be designated as a Technological University with all that this designation implies in terms of being innovative, entrepreneurial and responsive to the needs of sectoral stakeholders.

Stage 3 of the Technological University designation process has been successfully completed. This included the development of a business case which outlined the underlying assumptions. Included in these assumptions is projected merger costs of €6.7 million over 3 years to cover one-off costs such as professional fees, IT systems and communications.

This project is aimed towards a merger date of 1st September 2016 subject to the enactment of supporting legislation.

27. DISCLOSURE OF TRANSACTIONS – GOVERNING BODY MEMBERS

In the normal course of business the Institute may enter into contractual arrangements with undertakings in which the Institute's Governing Body members are employed or otherwise interested. The Institute has adopted procedures in accordance with the Code of Governance of Irish Institutes of Technology in relation to the disclosure of interests by members of the Board and the Institute has complied with these procedures during the year.

28. PRIOR YEAR ADJUSTMENTS

Prior year figures have been restated to clearly identify professional fees of €483k that were previously classified as Buildings.

29. APPROVAL OF FINANCIAL STATEMENTS

The financial statements were approved by the Governing Body on 4 December 2014.
7. Other Information

7.1 News & Events
7.2 Alumni Association
7.3 Contact Points
7.1 News & Events

1. CIT offered 13 programmes in September under the Springboard Initiative with places for 242 job-seekers. The programmes varied between Cloud Technologies to Environmental and Energy Engineering. Springboard provides an opportunity to the unemployed to partake in part-time, work-focused courses at third-level, free of charge, while maintaining their benefits. According to a recent review of the initiative nationally, within 6 weeks of completing a Springboard course, 30% were in employment.

2. The Mature Student Orientation Programme 2013 took place at the Institute on 3 September 2013. 120 mature students entering full-time undergraduate courses in CIT were provided with an extensive Orientation Programme to assist their transition into higher education.

3. The Registration and Orientation process for first year students took place from 9 to 13 September 2013. The students took part in registration, IT induction and tours of the campus.

4. A very successful Careers & Employability Fair took place in the Nexus Hall, Student Centre on 2 October 2013. A total of 65 stands were included in the event, comprising of 59 external organisations as well as various CIT services and departments. The Fair went extremely well and feedback was very positive from staff, organisations and students alike.

5. The Institute hosted the Opening Ceremony of Cork Rebel Week. This took place in CIT’s Sports Arena on 14 October 2013. It was a joint event between Cork City and Cork County Councils and was officially opened by both the Lord Mayor and the Mayor of the County of Cork. Activities commenced at 12.00 noon and continued until 4.00pm with many of Cork’s past and present sporting heroes taking part including world champion Rob Heffernan.

6. CIT hosted the annual Collaborative European Research Conference (CERC) in the NMCI on 17 and 18 October 2013. CERC 2013 is a multidisciplinary conference and showcased the research of postgraduate students from the UK, Germany, Norway, USA and Ireland at all stages of their research journey. Over the duration of this year’s conference, 21 graduates and postgraduate researchers presented full papers, and a further 8 early stage researchers presented proposal papers.

7. The annual Faculty of Business & Humanities Awards took place on 17 October 2013. 43 awards including Fáilte Ireland Awards, Social Care Ireland Awards, and the Des Roche Memorial Award were presented on the night.

8. Dr David Brown, Chief Executive, Institution of Chemical Engineers gave a talk in the Institute on 17 October 2013. He spoke on the IChemE’s strategy to address the challenges faced across four areas of society and the world today: energy, water, food and nutrition, and health and wellbeing.

9. The Annual CIT CSM Awards took place on 18 October 2013 and 144 awards/certificates were presented and were categorised as follows:
   - 34 Award Winners
   - 34 Competition Winners
   - 76 Certificates awarded to all those who passed their Grade 8 examination and Senior Musicianship programme

10. Conferring of Degrees and Other Awards for the Faculty of Business & Humanities took place on 18 October 2013. There were four conferring sessions and 1,212 graduands obtained their parchments.

11. The President attended and gave the opening address at an event to mark the celebration of 30 years of Chemical Engineering education in CIT on 19 October 2013. The Guests of Honour included the Institute’s first ever graduate, Niall Condon. Niall is now Vice President of Pharmaceutical Manufacturing Operations in Pfizer HQ, New York.

12. The Institute welcomed the Indian Ambassador to Ireland, Her Excellency, Smt Radhika Lal Lokesh on 20 October 2013 on her visit to CIT Wandesford Quay Gallery. The purpose of her visit was to meet the Indian community in Cork and it was an opportunity to showcase CIT and to foster further collaborations with Indian partners.

13. Conferring of Degrees and Other Awards for the Faculty of Engineering & Science and CIT Crawford College of Art & Design took place at the Bishopstown Campus on 21 October 2013. There were four conferring sessions. 1,022 graduands from the Faculty of Engineering & Science and 192 graduands from CIT CCAD obtained their parchments.

   Also there were two joint awards conferred:
   - BA (Honours) in Multimedia – Hochschule Darmstadt/CIT
   - BSc (Honours) in Biomedical Science – CIT/UCC

14. The NMCI Open Day was held on 22 October 2013. The day was a great success as over 700 visitors attended, and 40 company representatives and organisations supported 22 stands in the Sports Hall. Lecturers and students conducted tours and also gave advice to career guidance teachers and prospective students.

15. Good news was received on the jobs front for our current Higher Diploma in Cloud Computing students. VMware has interviewed and will offer paid internship contracts to 20 students from the current class. These students, who are scheduled to complete the programme this semester were registered unemployed when they entered CIT. They will exit the Institute with a guaranteed 6 month paid internship (not JobBridge) that includes the strong likelihood of a full-time contract when this ends. These jobs have been brought to Cork as a result of the close working relationship that has been forged between CIT and industry such as VMware, EMC and many others.
16. A CIT delegation consisting of Dr Roy Sleator, Department of Biological Sciences, Dr Bryan Kelleher, CAPPA, and Ms Cliona Maher, CIT International Office travelled to Sao Paulo, Brazil in October 2013, as part of an Education Ireland trade mission led by the Minister for Education and Skills, Mr Ruairí Quinn TD.

The delegation visited and presented guest lectures at UNESP and UNICAMP, two of Brazil’s leading Universities. Both Dr Sleator and Dr Kelleher showcased CIT’s cutting edge research programmes in Science and Informatics; highlighting CIT as a strong academic partner and attractive destination for Brazilian students, both at undergraduate and postgraduate levels. As a result of the trip, the delegation has signed a Memorandum of Understanding with both Universities, laying the ground work for what promises to be a very fruitful scientific cooperation.

CIT currently hosts 40 Brazilian undergraduate students on the Brazilian government scholarship programme “Science without Borders”, including students from both UNICAMP and UNESP, in the wide variety of Engineering and Science programmes offered.

17. Confering of Degrees on students of CIT CSM and CIT/ UCC/CCAIE (Cork Centre for Architectural Education) took place in CIT CSM on 24 October 2013. 54 graduands from CIT CSM obtained their parchments and 41 graduands from the CCAE also obtained their parchments for the CIT/UCC joint awards in
   - Master of Architecture
   - Bachelor of Science (Honours) in Architecture

18. The Institute held a Reception to honour the Award Winners of the 2013 Enterprise Ireland/Invest Ireland Think Outside the Box Finals on 7 November 2013.

19. Congratulations to Tim Horgan, Head of Online Delivery, on his submission being shortlisted for the Engineers Ireland Best in Class Education Award. His submission titled “Education in the Clouds; Cloud Computing” was one of four shortlisted. The other successful Institutions were IADT Dun Laoghaire, UL, and IT Sligo.

20. The CIT Annual Mass of Remembrance for staff and students who have lost loved ones over the past twelve months as well as staff and students who have died over the years was held on 8 November 2013.

21. On 11 November 2013, the presentation of the Amber Flag to CIT was held. In attendance was the Minister for Disability, Equality and Mental Health, Ms Kathleen Lynch TD, Ms Patricia Behan, Suicide Aware, and Dr Dan Collins, CIT Academic Administration & Student Affairs Manager. CIT is the first Institute of Technology in Ireland to be awarded the Suicide Aware Amber Flag Award for promotion of positive mental health.

22. The Volunteer Abroad 2014 information evening took place on 12 November 2013. Three students shared their experiences volunteering during the summer. This is the fourth year that the programme has run to encourage students to engage with philanthropic projects. To date the programme has supported 42 students volunteering in over 17 different countries. The combined total volunteer weeks that the students have contributed to various projects has amounted to 174 in total, almost three and a half years.

23. The CIT Engineering & Science Research Seminar Series for 2013-2014 was launched on 14 November 2013. This initiative was developed to provide CIT Engineering & Science researchers with a forum to share ideas, network and engage with colleagues from all areas across CIT.

24. On 14 November 2013 in Vicar Street, Dublin, the Institute of Designers in Ireland held their annual awards celebrating the best in design on the island of Ireland.

Cork and CIT’s newest educational space, the Architecture Factory, came quite unexpectedly, from behind projects by the EU and Google, to win the top award categories in Education, Commercial Interiors and Sustainable Reuse.

Also of the 21 categories of design from fashion to web design, CIT’s Architectural Factory was crowned with the Grand Prix for best contribution to design in Ireland in 2013.

25. Mr Seán Sherlock TD, Minister for Research and Innovation, officially launched the National sustainable Building Energy Testbed in the NIMBUS Centre on 15 November 2013. The event was also attended by key players in the Building Energy sector, including existing testbed user, Exergyn and United Technologies Research Centre Ireland Ltd., which designed and established the testbed in partnership with CIT.

26. CIT Open Day took place at the Bishopstown Campus and the CIT CCAD on 22 November and CIT CSM on 23 November 2013. It incorporated an extensive range of activities which were beneficial to students selecting higher education courses and planning their future careers. The Open Day was well attended and it is estimated that between 3,000 and 4,000 prospective students visited CIT on the two days.

27. The President attended a celebration marking 15 years of the delivery of entrepreneurial programmes in the region on 26 November 2013. Since 1998, CIT has played a pivotal role in supporting and delivering full-time enterprise support programmes such as the Graduate Enterprise Programme, the Genesis Enterprise Programme and now under the national brand of the New Frontiers Programme. The various Programmes have delivered enormous economic benefit to the region in terms of job creation and export activity.

28. The Mature Student Information Evening took place on 26 November 2013. The aim of the evening was to promote CIT as a destination to prospective full-time undergraduate mature students and to provide information. Numbers attending were largely in line with previous years, with approximately 160 prospective mature students interested in pursuing a full-time undergraduate course in CIT.
29. The Faculty of Engineering & Science held its annual prize-giving event on 28 November 2013. In excess of 50 prizes were awarded to students of the Faculty before an attendance of approximately 300 people. The 10th anniversary of the awarding of the Cliona Magner Bursary was marked by the attendance of the Magner family and past recipients of this award.

30. The 2014 IrelandSkills national competition took place in CIT from 9 to 13 December 2013. This was a prestigious event for CIT and in particular for the Centre of Craft Studies. While the various crafts involved in the IrelandSkills national competition are shared between CIT and DIT, CIT was proud to host competitions in eleven crafts as follows:
   - Carpentry, Joinery, Electrical Installations, Industrial Control, Metal Fabrication, Plastering, Construction Plant Fitting, Welding, Refrigeration, Mechatronics and Automobile Technology.

   The 2014 IrelandSkills winners in the various skills were presented with trophies at an Awards Ceremony on 13 December 2013. The Lord Mayor, Cllr Catherine Clancy, Mr Seán Sherlock TD, Minister for Research and Innovation, and Cllr Noel O’Connor, Mayor of the County of Cork were in attendance.

31. The Halpin Centre for Research and Innovation at NMCI was successful in receiving funding from the Irish National launch of Horizon 2020, Europe’s new Research and Innovation programme on 10 December 2013. Horizon 2020, with a budget of almost €80b will run for the next 7 years and fund activities to support Excellent Science, Competitive Industries and a Better Society. The launch, which took place in the National Convention Centre in Dublin, was a major national event.

32. CIT’s achievements in design, innovation and entrepreneurship featured on the Front Cover and Six Page Lead Article titled “Thinking Outside the Box” at Cork Institute of Technology of the January 2014 issue of the National Education Magazine. This Magazine is distributed to all second-level schools, third-level colleges, and other organisations.

33. The Curtis Auditorium. This was the first major opera held in the CIT CSM’s iconic building. It was a splendid production and much enjoyed by all who attended.

34. A Mature Student CAO Information Session took place in the Institute on 15 January 2014. 115 prospective mature applicants attended the session which was organised by the Access Services in CIT.

35. The New Frontiers Entrepreneur Development Programme Showcase and Awards Ceremony took place on 27 January 2014. The New Frontiers Programme is an Enterprise Ireland funded initiative, which is delivered in this region by CIT’s Rubicon Centre. The promoters of 12 different projects were recognised at the event for the tremendous progress that they have all made since commencing the Programme in 2013. This is the Rubicon Centre’s flagship event held on an annual basis. Mr Seán Sherlock TD, Minister for Research and Innovation, attended the event and presented the participants with their respective certificates.

36. The Spring Conferring of Degrees and Other Awards took place in the National Maritime College of Ireland on 13 February 2014. Graduands from the following disciplines were conferred:
   - National Maritime College of Ireland
   - Department of Mechanical, Biomedical & Manufacturing Engineering
   - Department of Tourism & Hospitality
   - Department of Civil, Structural & Environmental Engineering
   - Department of Applied Physics & Instrumentation
   - Department of Chemistry
   - Department of Electrical & Electronic Engineering

   A total of 108 graduands obtained their parchments which included one Master of Engineering and five PhDs.

37. The Department of Organisation & Professional Development at CIT’s School of Business hosted the Southern Branch of the Chartered Institute of Personnel and Development (CIPD) event for part-time students of Human Resource Management at CIT. CIT is Cork’s largest provider of HR education, offering a Bachelor of Arts in Human Resource Management (Level 7, CIPD accredited), Bachelor of Arts in Human Resource Management (Level 8), and a Master of Arts in Human Resource Management (Level 9, CIPD accredited).

38. The International Students Society, supported by the School of Business, hosted the inaugural “Language Exchange Club” event on 17 February 2014. This was a peer-based initiative designed to provide informal and social opportunities to students to practice language other than their native tongue in a friendly and supportive environment. This initiative was supported by the language lecturers within the Department of Marketing and International Business. Following the successful launch, this event ran each Monday evening for the remainder of the Semester.

39. The President together with the Head of the NMCI, welcomed a delegation from Brazil who visited the NMCI on 18 February 2014. The purpose of their visit was knowledge exchange from NMCI to their educational institutes in Brazil, with possible training provided by NMCI professionals to their instructors in Brazil as well as training by NMCI in Cork.

40. The “Working4Talent” Steering Committee attended the Rubicon Centre on 25 February 2014. Working4Talent (W4T) is an EU project under the INTERREG IVC Programme, funded by the European Regional Development Fund. The objective of the project is to improve the effectiveness of regional policies in areas of innovation and the knowledge based economy. In particular, the project is examining what policies
or initiatives can be developed to make regions attractive as locations in which to live and work for high knowledge individuals – Talent. The project is led by the San Sebastian City Council in Spain and project partners come from: Ireland (CIT), Norway, Italy (2), Czech Republic, Hungary, Latvia, Romania, and Lithuania.

41. The CIT Postgraduate Fair 2014 took place on 25 February 2014 in the Student Centre. The exhibition was mainly directed at final year undergraduates and past graduates exploring further study options. It also provided higher education institutions, professional institutes, and training bodies external to CIT with an opportunity to promote their postgraduate opportunities to prospective applicants both within CIT and the wider Munster region.

A total of 44 stands were included in the event, comprising 21 external organisations as well as various CIT services and departments. The Fair went extremely well and feedback was very positive.

42. CIT BCO in conjunction with the Cork Environmental Forum held an energy seminar entitled “Your Energy, Your Options” on 28 February 2014. Roundtable discussions allowed those in attendance to hear about practical application of renewable energy, the contribution that technology can make and the key role of energy efficiency in Cork and nationally.

43. CIT’s Cloud Computing Programmes featured prominently in the newly published Government 2014 Action Plan for Jobs cited as a success story in terms of meeting the high level ICT Skills Needs of Enterprise in Ireland. The case study cited in 2014 Action Plan for Jobs refers to CIT’s track record “in developing new flexible academic programmes to up-skill those at work and those who are seeking employment”.

44. A significant capital award from Science Foundation Ireland to Dr Brigid Lucey and Dr Aidan Coffey at CIT’s Department of Biological Sciences has been used to purchase a MALDI-TOF (Matrix-assisted laser desorption/ionization time-of-flight) Mass Spectrometer. The new instrument was set up at the collaborating Bacteriology Laboratory at the CUH under the supervision of Dr Brendan O’Reilly. The sharing of this advanced technology in Cork underpins the long-running productive research collaboration between CIT and CUH. It ensures that the instrument is used optimally both to generate new information used directly by biomedical PhD students at CIT and also to fundamentally assist with patient treatment at CUH.

45. The Rt Hon Lord Mayor of Cork, Cllr Catherine Clancy, gave an address at the opening reception of “Things/ Daiktaí” by Prof. Lesley Millar, MBE, International Curator, Author, and Educator, which took place on 7 March 2014 at the CIT Wandesford Quay Gallery.

This was an exhibition of contemporary textile artworks made through an artistic exchange project between 35 textiles students from CIT CCAD and Kaunas Art Institute of Vilnius Academy of Arts, Lithuania. The exhibition was in association with CIT CCAD new BA (Hons) in Contemporary Applied Arts: Ceramics/Glass/Textiles.

46. Upwards of 3,000 athletes and supporters descended upon CIT on 8 March 2014 for the Irish Schools and Universities Cross Country Championships. Despite January and February experiencing some of the wettest conditions on record, the cross country held up surprisingly well during the 10 races that were on the schedule. In the Universities competition, CIT students acquitted themselves very well with Mark O’Sullivan (Media Comms 2) recording the performance of the day by finishing in 9th position in the men’s event. Overall, CIT finished 7th in the rankings.

47. CIT Innovation Week, now in its fourth year, was launched in the West Atrium on 10 March 2014. This “week” was a combination of entrepreneurship and innovation related activities and competitions that were designed, funded and organised by many departments across the five campus locations, including CIT BCO.

48. As part of CIT Innovation Week, CIT Alumni Association welcomed back graduates to present “Working for Yourself – Going it Alone” discussion which took place in the NIMBUS Seminar Room on 10 March 2014. Entrepreneurs from a range of disciplines and sectors, all of which are CIT Alumni, were invited to CIT to participate in a discussion of their entrepreneurship journeys.

49. The Annual Presentation of Institute Prizes took place in the Council Room, Administration Building on 10 March 2014. This event honoured the Institute's Outstanding Graduates for 2013. Nineteen graduates obtained special awards.

50. The Institute’s Intermediate hurling team captured the All Ireland Intermediate title on 13 March 2014 in Kildare. They had to pull out all the stops to get the better of DIT by a single point after extra time on a score line of 1-20 to 0-22. This victory was more rewarding considering CIT played most of normal time with only 14 players.

51. The CIT International Office organised an “International Day” in CIT on 19 March 2014 to celebrate the diverse range of nationalities studying across the four campuses of the Institute. CIT is currently home to students from over 125 countries, and International Day provided a unique opportunity for students to showcase their individual cultures and traditions, and also to learn more about Ireland’s native traditions. The students hosted a Cultural Exhibition. During the day, they also enjoyed GAA taster sessions, a céilí, an art exhibition and a visit to CIT BCO.

The “International Day” was a huge success. Given that in excess of 1,100 international students from more than 125 countries are now studying in CIT, events of this nature highlight to all how significantly CIT has internationalised in recent years.
52. A delegation from the Ministry of Higher Education Kingdom of Saudi Arabia visited CIT on 21 March 2014 as part of their trip to visit eight Institutes of Technology. The purpose of their trip was to

- meet with the President or Vice President of each Institute
- receive a presentation covering the history of the Institute, available courses, history of internationalisation etc.
- administration criteria such as entry IELTS (International English Language Testing System) requirement in Foundation courses
- tour of classrooms, laboratories and workshops and
- meet with Saudi students to hear about their experience in the Institute.

Initial feedback from the Saudi representatives was very positive. The Institute expects to receive communication from them in relation to its application for “approved provider.”

53. On 21 March 2014, the newly appointed Brazilian Ambassador, H.E. Mr Afonso José Sena Cardoso visited the Institute. He was accompanied by his wife, Mrs Solange Cardosa, and the newly appointed Brazilian Honorary Consul for Cork, Mr Brendan McAuliffe. The purpose of their visit was to meet with CIT staff and CIT Brazilian staff and students. The primary focus of the visit was in relation to meeting students on the Science Without Borders (SWB) programme, with the Ambassador keen to hear feedback from the students on their experiences of Ireland, Cork and CIT. The current cohort of 39 SWB students enrolled in CIT programmes, along with the 12 SWB students currently undertaking English language training, were invited to participate in the meeting.

The Ambassador was very happy with the reception afforded to him and the manner in which the Brazilian students in CIT are being supported.

54. CIT BCO made headlines in the Irish Examiner on 2 April 2014 – “CoderDojo bright sparks to make cosmic history”. Five Cork students made astronomical history by snapping a picture of space using a telescope operated remotely from a flight to San Francisco. The five students who are CorkCoderDojo members flew on the inaugural Aer Lingus Dublin to San Francisco flight departing on 2 April 2014. They were led by researcher Adrian Collins, CIT BCO. The five had live access to robotic telescopes in California as part of a dual education sister city partnership developed by CIT BCO. Shortly after take-off, the five students used the airline’s Wi-Fi to connect to the telescope in the Portola Valley to take images of space before dawn broke on the West Coast. The students were selected to give Mayor Ed Lee of San Francisco a lesson in coding as part of the five day trip. The aim of the trip was also to develop technology links between San Francisco and Cork, the founding city of CoderDojo. The students showed their coding skills to representatives of top Silicon-Valley-based firms. They also made ABC, prime-time viewing on 3 April when ABC filmed the five CoderDojo teens teaching SF children code using data from Project Tara. The report was aired on the 4pm and 8pm news broadcast.

55. The Institute’s Department of Tourism & Hospitality was host this year to THRIC, the Tourism and Hospitality Research in Ireland Conference. The conference is an annual event hosted by the Institutes of Technology in Ireland to review and showcase current research in the areas of Tourism and Hospitality in Ireland. The 10th Annual Conference took place at the Bishopstown Campus on 3 and 4 April 2014. The President welcomed Mr Seán Sherlock TD, Minister for Research and Innovation, who officially opened the Conference. There were six keynote speakers and over 30 research papers presented. The Conference was well attended which included the following:

- Researchers and early stage researchers and research supervisors
- Tourism students
- The Heads of Tourism and Hospitality Education in all of the IoTs and CIT
- Tourism and Hospitality lecturers from the Institutes of Technology and Universities
- Representative from Cork City Council and Cork County Council
- Representatives from Fáilte Ireland
- Representative from ITIC (Irish Tourism Industry Confederation)
- Representatives from IHF (Irish Hotel Federation)
- Representative from RAI (Restaurant Association of Ireland)
- Visiting Lecturers from overseas

56. Mr Seán Sherlock TD, Minister for Research and Innovation, officially opened SciFest 2014 at CIT on 4 April 2014. SciFest is a national festival of science organised regionally in collaboration with the Institutes of Technology and is open to all second-level students. It was created to provide an additional forum for students to present and display the results of their scientific investigations, following the success of the BT Young Scientist and Technology exhibition which has been running very successfully for over forty years.

This year’s event at CIT showcased 150 projects from 320 second-level school students, ranging from 1st year to 5th year, and from 25 schools across Cork City and County.

57. The CIT Access Service together with the CIT Arts Office organised a new Art initiative for Access Linked Schools. The initiative is an art competition where aspiring young artists were invited to submit an art piece themed “My Education, My Future.” The initiative aims to allow students in linked second-level schools an opportunity to explore their future aspirations through art. The programme encourages budding artists to express their creativity and have their creations exhibited in a professional dedicated art space.

The students’ work was exhibited in the James Barry Exhibition Centre in CIT from 8 – 29 April 2014 and the formal Exhibition Launch took place at lunchtime on 8 April and was officially opened by Dr Barry O’Connor, Registrar & Vice President for Academic Affairs.

The official launch of the Art Initiative took place during Cork’s 11th Lifelong Learning Festival which took place
58. CIT researchers and AventaMed founders, Olive O’Driscoll and John Vaughan, won the MedTech Idol Competition at the Invest in Innovation (IN3) Medical Device 360° conference which took place in Dublin on 9 April 2014. The IN3 conference brought together a diverse group of Medtech’s key thought leaders including corporate business development executives, venture capital and angel investors and start-up entrepreneurs and featured an outstanding agenda of panels, networking sessions and meet-and-greets with industry.

The conference included the MedTech Idol competition for early stage Medtech companies which gave 4 selected companies, from an original entry of 30+ international companies, the opportunity to pitch their business plans and products to a panel of world-class Medtech investors.

As winners, AventaMed will represent CIT at the IN3 Medical Device 360° Summit from November 5th to 7th in San Francisco.

AventaMed is commercialising a novel disposable ENT device (V-tube) which is used for the placement of tympanostomy tubes (grommets) in the eardrum. The device inserts a pre-loaded grommet into the eardrum in less than 2 seconds and will allow the procedure to be carried out in a clinical setting without the need for the use of the traditional general anaesthetic in an operating theatre. In close consultation with world leading experts in otolaryngology, CIT and AventaMed have pioneered this device which will reduce procedural costs by over 50%. Its innovative design, safety features and cost-saving benefits, have been met with great enthusiasm in the medical field. The device has been developed by researchers in CIT's Medical Engineering Design and Innovation Centre (MEDIC) through an Enterprise Ireland Commercialisation Fund project.

59. The Institute’s International Students Society and Music Society were announced as winners on 10 April 2014 at the BICS National Societies Awards hosted by Queen’s University. ISS picked up the “Best Society Award” in academic, cultural and social field. The Music Society obtained “The Most Improved Society” for their positive transformation over the past year. It is a significant achievement for both groups and for CIT picking up two awards in what are highly contested and coveted honours.

60. On 14 April 2014, NIMBUS Researchers, Dr Martin Klepal and Dr Christian Beder, won the gold medal for the most accurate infrastructure free indoor radio localisation tracking system at a Microsoft sponsored competition at CPS Week in Berlin, one of the world's most prestigious conferences on embedded systems research. This is a fantastic achievement as competitors included participants from world renowned institutions such as MIT, Stanford and Cambridge University.

61. The Architecture Factory at the Bishopstown Campus of CIT won the International Interiors Award (Platinum Award), from over 12,000 entries at the “A Design Awards and Competition” on 16 April 2014. This annual competition is the world’s largest design competition, judged by a panel of industry experts.

62. At the request of the founder of “The Greater Chernobyl Cause” Ms Fiona Corcoran, on behalf of the Russian Ambassador, the President welcomed the Russian Ambassador, H.E. Mr Maxim Peshkov and his Embassy Officials to the Institute on 25 April 2014. The purpose of their visit was to meet with the Russian students attending CIT. They were also brought on a tour of the Institute which included the Rubicon Centre.

63. On 30 April 2014, the Minister for Jobs, Enterprise and Innovation, Mr Richard Bruton TD and the Minister for Research and Innovation, Mr Sean Sherlock TD, announced €47m in funding for pioneering research initiatives, delivered by the Department of Jobs, Enterprise and Innovation, through the Science Foundation Ireland Investigators Programme. This programme is extremely competitive.

Dr Dirk Pesch, Head of the NIMBUS Centre for Embedded Systems Research was a successful co-applicant on a proposal entitled “SURF: Service-centric networking for urban-scale feedback systems.” The award strongly supports the ongoing research in NIMBUS.

64. On 2 May 2014, the Department of Sport, Leisure & Childhood Studies conducted the Official Launch of “Project Spraoi: A strategy to improve nutrition and physical activity in Irish primary schoolchildren”. Mr Jimmy Deenihan TD, Minister for Arts, Heritage and the Gaeltacht, launched the Project. He praised the efforts of the Research Team and all the school children, principals and teachers present.

The project is being rolled out by three of the Department’s postgraduates who put an enormous amount of work into bringing this initiative to primary schools in Cork City and County. It is the intention to expand this research project to the wider Munster Region and eventually on a national scale.

65. The CIT School of Business Inaugural Accounting Alumni Reunion took place on 8 May 2014 in the Maryborough Hotel to celebrate 30 years of Accounting Education in the region. In attendance was the Deputy Lord Mayor, Cllr Michael Ahern and his wife Eileen, Governing Body members, President, Institute Executive Board members, representatives from all of the Professional Accountancy bodies, current staff, retirees, and a large number of CIT Accounting Alumni both from practice and industry.

CIT is the only provider in the region of all the professional body programmes and CIT’s School of Business currently has 470 students studying accountancy, 210 at undergraduate/postgraduate level and 260 on a part-time basis studying professional accountancy.
66. In an article published by the Irish Times on 14 May 2014, a new EU-sponsored ranking for higher education showed that CIT got an “A” for co-publication of research with industry partners, the only higher education Institute here to achieve such a grade. Most finished in the top half of the U-Multirank system, with the stand-out performers being DCU, UCC, NUIG and CIT.

67. Transition year students from Cork, Limerick and Galway attended CIT to take part in the “Engineering Your Future” Transition Year Programme. Seventy-two second-level school students – 12 girls and 60 boys attended the week-long programme which commenced on 19 May 2014.

68. Ms Kritlin Linklater, one of the seminal voices in Actor and Voice Training in the world, visited CIT CSM on 22 May 2014 to meet with the BA (Hons) in Theatre and Drama Studies students. She is a world-renowned teacher of voice production who has pursued a highly successful academic and theatrical career in the USA and Europe for the past fifty years.

69. CIT’s Regional VMware IT Academy and EMC Academic Alliance Programmes Workshop took place at the Bishopstown Campus on 27 May 2014. This event was a great success. Attendees from three Universities (UCC, UL and UU, Jordanstown) and five IoTs (WIT, Carlow IT, IT Blanchardstown, IT Tallaght and IT Tralee) all attended. Gerry Murphy, Academic Liaison VMware and Kate O’Keeffe, VMware Training & Development also attended and reiterated their support for the development of the VMware IT Academy nationally with CIT as the Regional Academy of Ireland. Mr Bob Savage, EMC VP and Chairman of CIT’s Governing Body attended the afternoon session to lend his support to the programme and participated in a questions and answers session. This was greatly appreciated by all present and illustrated the important role that the Academy programme plays as a conduit for engagement between the third-level sector and leading technology vendors such as EMC and VMware.

70. A ceremony to mark the renewal of the Memorandum of Understanding on the Research Collaboration between CIT and the Tyndall National Institute took place on 27 May 2014 in the Tyndall National Institute. Mr Seán Sherlock, TD, Minister for Research and Innovation was present at the ceremony.

71. The Official Opening of the CREATE building took place on 6 June 2014 and was officiated by Mr Seán Sherlock TD, Minister for Research and Innovation. It was clear that this programme has been the spark for significantly increased engagement between the Department of Mathematics and industry in the past year. Four students presented on their projects on the day, and were a credit to themselves and to the programme team.

72. As last year’s winners, the Institute hosted the All-Island Enterprise Ireland Student Entrepreneurs Awards from 10 to 12 June 2014 at the Bishopstown Campus. The Vice President for Development, Michael Delaney, gave the opening address at the presentation of awards on 12 June 2014.

This year a total of 450 applications were received from third-level institutions across the country. From this, 10 finalists were selected to present and exhibit their business ideas. The Student Entrepreneur Awards are open to all full-time third-level students in the island of Ireland. The competition is part of a major drive aimed at tapping into the potential for third-level students to turn their entrepreneurial ideas into commercial businesses.

73. The Official Launch of the Continuing Education Handbook 2014/15 took place on 16 June 2014. The launch was performed by Mr Liam Linehan, HR Manager, Irish Examiner and Evening Echo and Chairman of CIPD Southern Region.

74. The Department of Mathematics held a seminar in CIT titled “Data Analytics Cork – Reason, Rigour, Fin Barre and Boole” on 18 June 2014. There was a large attendance from CIT staff and students, and significant representation from CIT’s research community. Lecturers from UCC and external stakeholders from industry, both public and private sectors also attended. In opening the afternoon’s proceedings, Mr Aengus Daly, Lecturer, Department of Mathematics spoke of the increasing significance of the Big Data research theme in CIT, and of the recent work done by students of the Higher Diploma in Data Science & Analytics in relation to the capstone project module. It was clear that this programme has been the spark for significantly increased engagement between the Department of Mathematics and industry in the past year. Four students presented on their projects on the day, and were a credit to themselves and to the programme team.

75. The Conferring of Degrees and Other Awards took place on 19 June 2014 in the National Maritime College of Ireland and 64 graduands obtained their parchments.

76. The TEC Gateway in the NIMBUS Centre hosted an Industry Open Day on 20 June 2014 with a top prize of €5,000 worth of research funding. This event had speakers from Industry, Enterprise Ireland, and CIT describing technology innovation and funding services offered to Start-ups, SMEs and large enterprises across Ireland. The agenda for the open day also featured a presentation by Enterprise Ireland regarding funding mechanisms including how to avail of the funding schemes for innovative projects, with presentations by industry clients who have successfully worked with TEC Gateway in the past.

77. CIT hosted its Enterprise Camp on 18 August 2014 in the Rubicon Centre, Bishopstown Campus. It was aimed at Junior Cycle second-level students who explored entrepreneurship and starting their own business as a future career during the week long camp. 25 students from Cork city and county schools were picked at random as there was a strong demand for the programme.
The students met with entrepreneurs from the Rubicon Centre, CIT’s Entrepreneur in Residence, Kieran Moynihan, CIT lecturers and also guest speakers from industry including Mr Gregory O’Gorman, Kilkenny Group. The Kilkenny Group is Ireland’s largest emporium of Irish designed products. They also went on site to visit Johnson & Johnson in Ringaskiddy. Students were given the opportunity to be creative, work in teams, explore opportunities, and have a positive experience in an entrepreneurial environment here in CIT. Also they had the opportunity to generate business ideas, learn how to research and understand the market and also how social media impacts on business today. The camp had a series of practical workshops for the students which were facilitated by CIT staff. The week concluded with the students presenting their own ideas to a panel and reflecting on the week and enterprise possibilities for them in the future.
7.2 Alumni Association (CITAA)

The CIT Alumni Office is the means through which CIT Alumni can maintain close links with their alma mater and with fellow graduates and also avail of a wide range of benefits and services. The loyalty, support and involvement of alumni with the Institute is vital to ensure CIT’s future success in delivering Ireland’s knowledge-based economy. CIT Alumni Association has approximately 19,442 members. The database holds details of graduates from all campuses, at all levels and from all disciplines.

CIT provides all alumni with free membership of CIT Alumni Association. A wide range of benefits, services, and events are on offer to registered members.

An Alumni Association Committee is established and consists of alumni and staff who advise the Institute on how to best engage with graduates and to further develop the Association.

Alumni are encouraged to keep their contact details current through email, website, social networking sites or by direct contact with the Alumni Office.

CIT Alumni Internship Programme

The CIT Alumni Internship programme commenced on 2nd September 2013 and aims to actively increase the awareness of the CIT Alumni Office among undergraduate students. The internship will particularly focus on introducing graduating students to CIT Alumni Association. The role of the Alumni Intern is vital in building a relationship with students prior to graduation.

Reporting to the Alumni Relations Officer, the Alumni Intern will actively support, promote, and develop the alumni relations activity at CIT. This will entail the implementation of a range of new initiatives and activities which support this goal amongst all CIT students (including constituent colleges).

Alumni and Careers Service Joint Mentorship Programme

The CIT Alumni Office and the CIT Careers Service have developed a Joint Mentorship Programme for current final year students and postgraduate students. The Programme is a voluntary, extra-curricular activity and will aim to match students with professionals from a wide range of sectors to exchange business experience, knowledge, expertise, and career advice.

The programme commenced in November 2013 with an induction event and over the course of six months, mentors and mentees met to discuss various issues. The success of the programme was celebrated in April 2014 with a closing event.

First Destinations Survey

CIT Alumni Association and the Careers and Counselling Service in CIT conducted a First Destinations Survey (FDS) of the 2013 CIT graduates in March 2014. The survey collects data from recent graduates to determine numbers in employment, numbers seeking employment, and those participating in further study or training. The information will be of benefit to students, graduates, Institute management, employers, policy makers and all those with an interest in higher education.

Data was gathered from 54% of the 2013 graduates. A survey of the 2014 graduates will be conducted in spring 2015.

Events (September 2013 – August 2014)

- Good Start - Fresher to Ferrari Event (October 2013)
- Careers Fair (October 2013)
- Chemical Engineering Alumni Reunion (October 2013)
- Joint Mentorship Programme Launch (November 2013)
- Joint Mentorship Closing Event (March 2014)
- “Working for Yourself, Going It Alone” Entrepreneurial Alumni Event (March 2014)
- Accounting Reunion (May 2014)

Communications

- The Alumni E-News was circulated as follows to:
  - 10,486 constituents in July 2013
  - 12,346 constituents December 2013
  - 12,276 constituents in April 2014
  - 12,292 constituents in August 2014
7.3 Contact Points

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