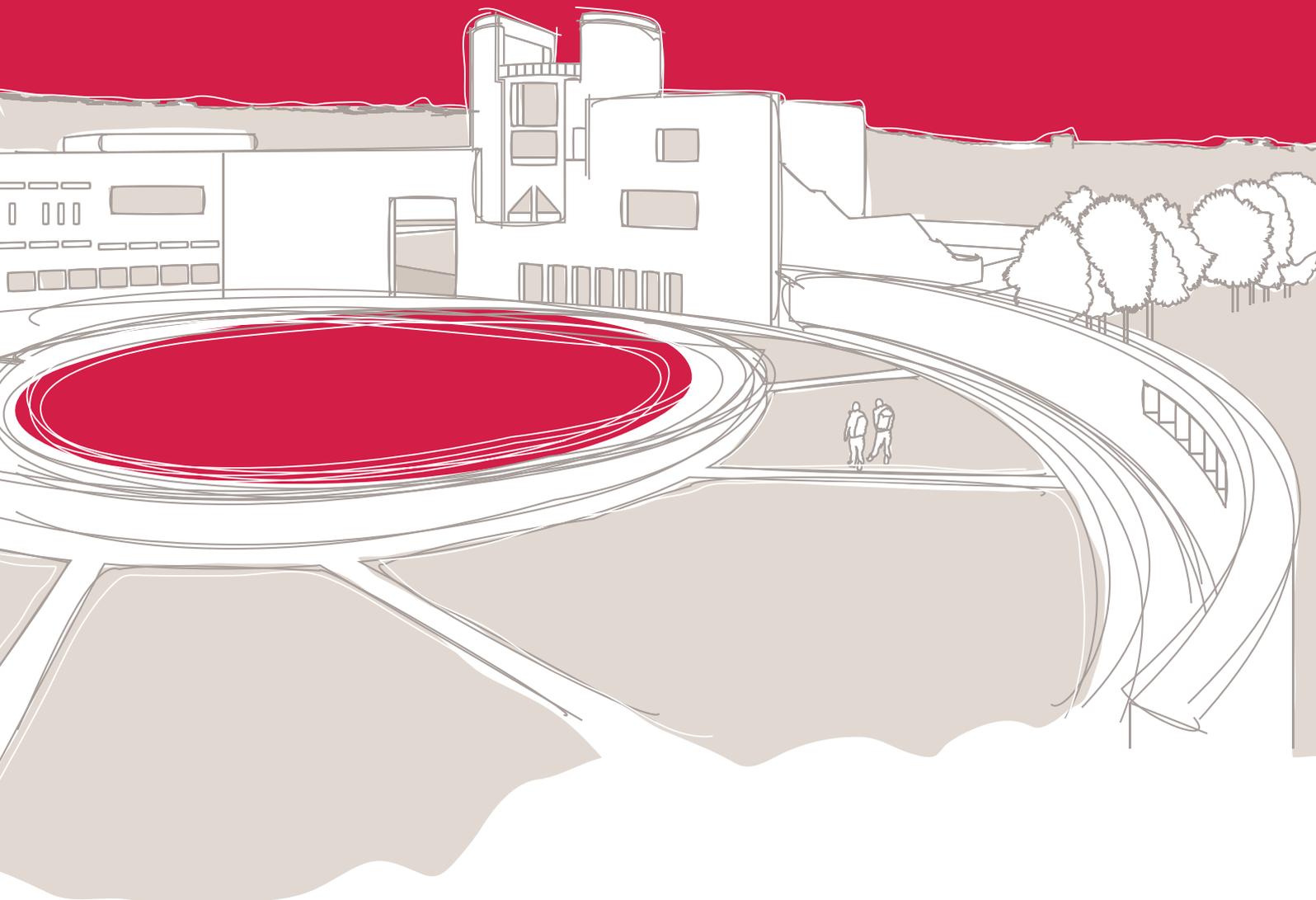


# annual report 09/10

cork institute of technology

[www.cit.ie](http://www.cit.ie)



Ireland's EU Structural Funds  
Programmes 2007 - 2013

Co-funded by the Irish Government  
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EUROPEAN UNION  
STRUCTURAL FUNDS





*CIT Bishopstown Campus*



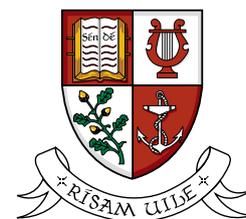
*CIT Cork School of Music*



*CIT Crawford College of Art & Design*



*National Maritime College of Ireland*



Cork Institute of Technology

# annual report 09/10

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# history

4

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 Sharman 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, the Committee established a Technical College which 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 Fitton Street. While tracing its origins to the Royal Cork Institution, its immediate precursor was the School of Science, established in 1854, which 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 1960s 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 Regional Technical College 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 building was officially opened in January, 1977, by the then Taoiseach, Mr Jack Lynch, T.D.

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, T.D., Minister for Education and Science.

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 in 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.

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 (NQA) in June 2005.

HETAC delegated full award authority 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 NQAI and applied to fields of learning where the Institute has been accredited to maintain a research register. This Institute 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. These buildings greatly enhanced 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 Ireland. It had a temporary home in George's Quay after the Second World War and then moved to new premises in Union Quay in 1956. The Hardiman Report gave scope for a review of music education in CIT. After much support from the institutions, the citizens of Cork, and the Department of Education and Science, a beautiful new 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](http://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](http://gateway.cit.ie)) was completed in September 2010 and the student portal ([www.mycit.com](http://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, T.D. on 26 May 2008.

On 16 October 2009, the Minister for Education and Skills, Mr Batt O'Keeffe, T.D., 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 (PRTL) in 2007, NIMBUS is the first building nationally to be completed in the 4th cycle of PRTL 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 adjacent to the CIT Crawford College of Art and 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.

### Mission Statement

To provide student-centred education with a career focus for the benefit of the personal, intellectual and professional development of the student and for the benefit of the whole of society.

### Core Values

CIT is a teaching, learning and research institution of excellence and quality which provides inclusive access to education for students with varied aptitudes, needs and experience across a wide range of disciplines and award levels.

CIT is committed to its role in society and thus will ensure that the Institute, its staff, students and graduates make a real and meaningful contribution to academic, economic, industrial, social and cultural life regionally, nationally and internationally.

CIT will develop and foster the talents of the students of the Institute in a supportive environment. The Institute will provide its students with an education which satisfies their expectations and meets their needs in their careers and as members of society.

CIT will continue to develop through a governance, management and organisational culture of partnership, consultation and cooperation.

### Strategic Vision

CIT will be a pre-eminent provider of career-focussed education that embraces diversity and innovation.

The strategic vision expresses the Institute's vision of success. The achievement of this vision will be evident to the economic, cultural and social well-being of its region and communities. Such an Institute will also be progressive, flexible and innovative in its planning and responsiveness to student needs, while building on its existing strengths.

*Extract taken from the Institute's Strategic Plan 2005 – 2010.*



Institiúid Teicneolaíochta Chorcaí  
Cork Institute of Technology

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*Nimbus Research Centre*

# 1. Introduction

Cork Institute of Technology

- 1.1 Chairman's Statement
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- 1.5 About Cork Institute of Technology and its Organisation Chart
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## 1.1 Chairman's Statement



I am delighted to present this Annual Report of Cork Institute of Technology for the year 2009/2010. CIT continues to strive towards achieving its mission, namely to provide the best student centred education in the country for the benefit of the student and for the benefit of the whole of society. In support of its application for university status, CIT continued during this year to promote its objective to be designated a Technological University.

Significant infrastructure developments at the Bishopstown Campus included the acquisition of the "Tyco" site, the completion of the Rubicon extension, and the Nimbus Research and Innovation Centre, and the completion of the Spectator Stand at the Outdoor Sports Complex. The establishment of the Advisory Board for the Cork Science Innovation and Technology Park, to be located in the lands adjacent to the Bishopstown Campus was a very welcome development.

CIT Crawford College of Art and Design opened its Wandesford Quay Gallery for use for public exhibitions and additional working space.

The National Maritime College continued to develop commercial ventures which lead to improved utilisation of the facility.

The first steps were taken in the development of a relationship with the University of Pune, India as part of the internationalisation drive.

CIT continued to grow its research capability and reputation and received further significant research funding from both SIF and PRTL Cycle 5, which included funding for a new research facility.

In the continuing challenging economic environment during this year, CIT managed to meet its financial and governance objectives, while continuing to deliver excellent education to increased numbers of students.

The continued success of students in external competition at national and international levels reflects the quality of teaching, learning, innovation and research within the Institute and is a credit to the academic staff.

In conclusion, I would like to thank the members of the Governing Body, the President, Dr Brendan Murphy, the Management and Staff at CIT for their dedication and hard work during 2009/2010.

**Dr Paddy Caffrey**  
**Chairman**

## 1.2 President's Statement



This is my sixth year in office and the following is my President's Statement:

### A. Building and Estates

The Institute purchased a neighbouring property (TYCO), comprising of a factory type building and 3.24 hectares of land. The Minister for Education and Science, Mr Batt O'Keeffe T.D., attended the signing of the Contract on 16 October 2009. The Extension to the Rubicon Innovation Centre commenced in October with work completed in May 2010. In order to facilitate the Institute's Learning Resource Centre (LRC) development, the existing visitor's car park has been relocated to the area between the IT Building and the Administration Building. The official opening of the Spectator Stand at the Institute's Sport Complex took place on 4 June, the opening was performed by the Minister for Enterprise, Trade & Innovation, Mr Batt O'Keeffe T.D. The official opening of the Wandesford Quay Gallery took place on 18 June. The Gallery will be used as a professional learning environment for the students of the CIT Crawford College of Art and Design.

### B. Academic Matters

Conferrings for the CIT Cork School of Music took place on 2 November. The Minister for Education and Science, Mr Batt O'Keeffe, T.D., attended a reception and presentation held on 9 November to mark the achievements of the Irish World Skills Team who finished in 2nd place at the 40th World Skills Competition in Calgary, Canada. Five of the team of 11 were CIT students. Conferrings took place at the Bishopstown Campus on 12 and 13 November. A total of 2,293 graduands obtained their parchments. The official signing of the Memorandum of Cooperation between CIT and UCC took place in the Crawford Art Gallery on 30 November. Mr Kieran O'Callaghan of Vision RE™ was honoured with the Global Student Entrepreneurship Finalist Award while representing Ireland at the Global Student Entrepreneur Awards Final in Kansas City, USA from 18 to 20 November.

An Amendment to the Consortium Agreement between the University of Applied Sciences, Darmstadt and CIT was signed on 15 January for the purpose of making joint awards in

- (i) Bachelor of Arts (Honours) in Multimedia
- (ii) Bachelor of Arts in Digital Media
- (iii) Master of Arts in Media Design
- (iv) Master of Arts in Media Direction

A delegation led by Mr Michael Loftus, Head of Faculty of Engineering & Science, Dr Eamonn Cashell, Head of School of Science, Dr Niall Smith, Head of Research and staff from the School of Science attended a bilateral research and innovation Colloquium entitled "Collaboration in Science and Technology" at the University of Pune, India on 18 and 19 January. Conferrings took place at the National Maritime College of Ireland on 19 February 2010. A total of 66 graduands obtained their parchments and amongst these for the first time were a group of Irish Naval Service students who successfully completed the Higher Certificate in Arts in Leadership, Management & Naval Studies. PhD Mechanical Engineering student, Ms Xiao Fang Zhang won the European Student Innovation Award in France on 2 March. Part of the Med-Ware™ Team, Ms Zhang invented and designed a new device to detect and eliminate air bubbles from medical infusion lines. The Annual Presentation of prizes honouring the Institute's outstanding graduates of 2008/2009 took place on 26 April at Bishopstown Campus. Professor Greg Boyer has commenced an eight month period of research in the Department of Chemistry at CIT. Prof Boyer is an accomplished researcher and holder of a prestigious Science Foundation Ireland Walton Fellowship. The Conferring of Degrees took place on 17 June at the National Maritime College of Ireland and 44 graduands obtained their parchments. The Awards Ceremony for the National Skills Competitions 2010 took place on 25 June and was officiated by the Lord Mayor of Cork, Cllr Michael O'Connell and the Minister for Enterprise, Trade & Innovation, Mr Batt O'Keeffe T.D.

### C. Strategic Matters

The CIT Strategic Planning Council (SPC) was established following consultation with the Governing Body and the Institute Executive Board in October 2009. The SPC is responsible for all aspects of strategy and strategic planning during the period 2011 to 2016. It will oversee the formulation, implementation, and review of the Institute's Strategic Plan. Work commenced on the formulation of the new CIT Strategic Plan in January 2010. However, due to national industrial action and the delay in publishing the National Strategy for Higher Education it was decided in June 2010 to suspend the work of the SPC for a period.

### D. Staff

Dr Noel Barry took up duty as Acting Head of Academic Studies, National Maritime College of Ireland on 1 September 2009. Dr Joe Connell took up duty as Acting Head of Electrical Engineering on 1 September 2009. Fr David McAuliffe took up duty as Institute Chaplain replacing Fr Kieron O'Driscoll who had been the Institute Chaplain for eight years. Dr Roy Sleator, Department of Biological Sciences, was appointed Editor-in-Chief of the first international peer reviewed journal entitled "Bioengineered Bugs", published by Landes Bioscience (US). Mr Seán McKiernan, Lecturer, CIT Cork School of Music received the prestigious TG4 Gradam Ceoil Award for 2010.

### E. Arts, Culture and Sport

CIT contributed to 'A Culture Night' which took place on 25 September 2009 at over 50 venues across Cork City by hosting a series of exhibitions and lectures at Bishopstown Campus, CIT Crawford College of Art & Design and CIT Cork School of Music. The annual CIT Christmas Fair took place at Bishopstown Campus on 10 and 11 December raising much needed funds for the Irish Guide Dogs Association. The Institute's Athletic Club hosted Ireland's first ever night time cross country running event at Bishopstown Campus on 11 December. The South Munster Schools Cross Country Championships which involved 400 second-level school students was held at the Institute's sports grounds at Bishopstown Campus on 29 January. The Institute's Camogie Club hosted the Higher Education Ashbourne and Purcell Finals at the Institute's Sport Stadium on 20/21 February. The CIT Cork School of Music presented the "Guys and Dolls" musical in the Curtis Auditorium from 24 to 27 February. CIT Crawford College of Art hosted a day of public lectures on 15 March attended by Felicity Aylieff and Takeshi Yaduda, two world renowned ceramic artists. The Department of Tourism & Hospitality Studies was presented with the GOLD Green Hospitality Award on 11 March. The All-Ireland Schools and Universities Cross Country Championships were held at the Institute on 13 March. The CIT Ladies Football Club won the final of the H.E.C. Lynch Shield on 20 March beating Athlone Institute of Technology. CIT Cork School of Music students of all ages and levels took part in a 12 hour Marathon of Music – National Music Day – in the CIT Cork School of Music on 16 April. Concerts were free of charge and all donations on the day went to Barnardos Charity. As part of the celebration of twenty years of bilateral diplomatic relations between Ireland and Romania, a concert was held in the CIT Cork School of Music on 8 May with performances from staff and Romanians living in Cork. The Annual Institute Sports Awards took place in the Institute on 11 May. Mr Denis Walsh, Cork Senior Hurling Manager was presented with the Graduate Achievement Award. The Cork Centre for Architectural Education Exhibition and Prize-Giving Ceremony took place on 28 May. Best graduating student, Patrick F Shier was awarded the Venice Biennale Award. The Institute's Student Services Company became the first third-level Student Canteen to receive the Green Hospitality Award on 4 June. The Institute hosted the FAI Soccer Summer Camps from 26 to 30 July.

### F. Innovation and Research

Mr Kieran Moynihan was appointed as the Institute's first Entrepreneur-in Residence in September 2009. The Institute was represented at the Intelligent Transport Systems (ITS) World Congress in Stockholm by postgraduate research student, Garry O'Connor who won the Bronze Prize and €7,500. The CIT Prize for Innovation Showcase and Awards Ceremony took place in the Student Centre on 19 March. First prize and title of CIT Entrepreneur of the Year went to "Hydrostack" from the Department of Mechanical Engineering. The CIT Innovative Student Engineer of the Year (Level 7 and Level 8) took place on 20 April, the following awards were made:

- (i) First Place and CIT Innovative Student Engineer of the Year (Level 7)  
Jack Bermingham, Project: Wave Energy Research & Development in Ireland
- (ii) First Place and CIT Innovative Student Engineer of the Year (Level 8)  
David Kelleher, Project: Development of a 3D Teat Sensing System

Minister for Foreign Affairs, Mr Micheál Martin T.D., launched “17 new Irish Companies” at the 12th Annual Genesis Enterprise Programme 2010 Awards & Showcase at the Institute on 29 March. The 24th Annual Cork Mechanical, Manufacturing & Biomedical Engineering Exhibition took place on 29 April in the Student Centre. The theme of the 2010 exhibition was “Sustainability in Engineering – Education and Research”. Minister for Communications, Energy and Natural Resources, Mr Eamon Ryan T.D., attended and addressed the large exhibition audience. Two major awards for the Institute were won at the Enterprise Ireland/Invest Northern Ireland Student Awards Final 2010, which took place on 3 June. The awards were presented by Mr Billy Kelleher, T.D., Minister for Trade and Commerce to:

- (i) Second Place Student Enterprise Awards  
Team: Mobilis (comprising of: Myles Murray, Gavin O’Sullivan and Mark Keane)
- (ii) Enterprise Ireland/Invest Northern Ireland Award of Merit  
Team: Tip Top Cue Tip (comprising of: Jonathan Howley, Daniel Henderson, Aidan Vaughan and Ronan O’Donoghue).

A proposal jointly submitted by CIT and Tyndall - Postgraduate Research on Photonics as an Enabling Technology (PROPHET), resulted in funding from the Marie Curie Initial Training Network (ITN). The funding of €4.8m will train 14 PhD students and 5 postdoctoral researchers over four years.

In July 2010, the Institute was awarded a total of €3.889m including capital funding under Programme for Research in Third Level Institutions (PRTL) Cycle V.

### **G. National Strategy for Higher Education**

It is expected that the National Strategy for Higher Education will be launched shortly. This is a very important document for CIT and Irish higher education in general as it will chart the development of the system for the coming decades. CIT made a detailed submission and also participated in a number of the formal consultation sessions conducted by the Strategy Group. CIT’s submission called for the establishment of a technological university sector, the establishment of a single higher education quality authority and reform of the higher education funding mechanism to a more student based and performance based model.

**Dr Brendan J. Murphy**  
President

### 1.3 Equality Statement

CIT is an equal opportunities employer. It is committed to the on-going 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 five 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  
Cork Centre for Architectural Education (CCAIE) situated in Cork City, jointly run with UCC

### **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 Development 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 is now located in a new 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)**

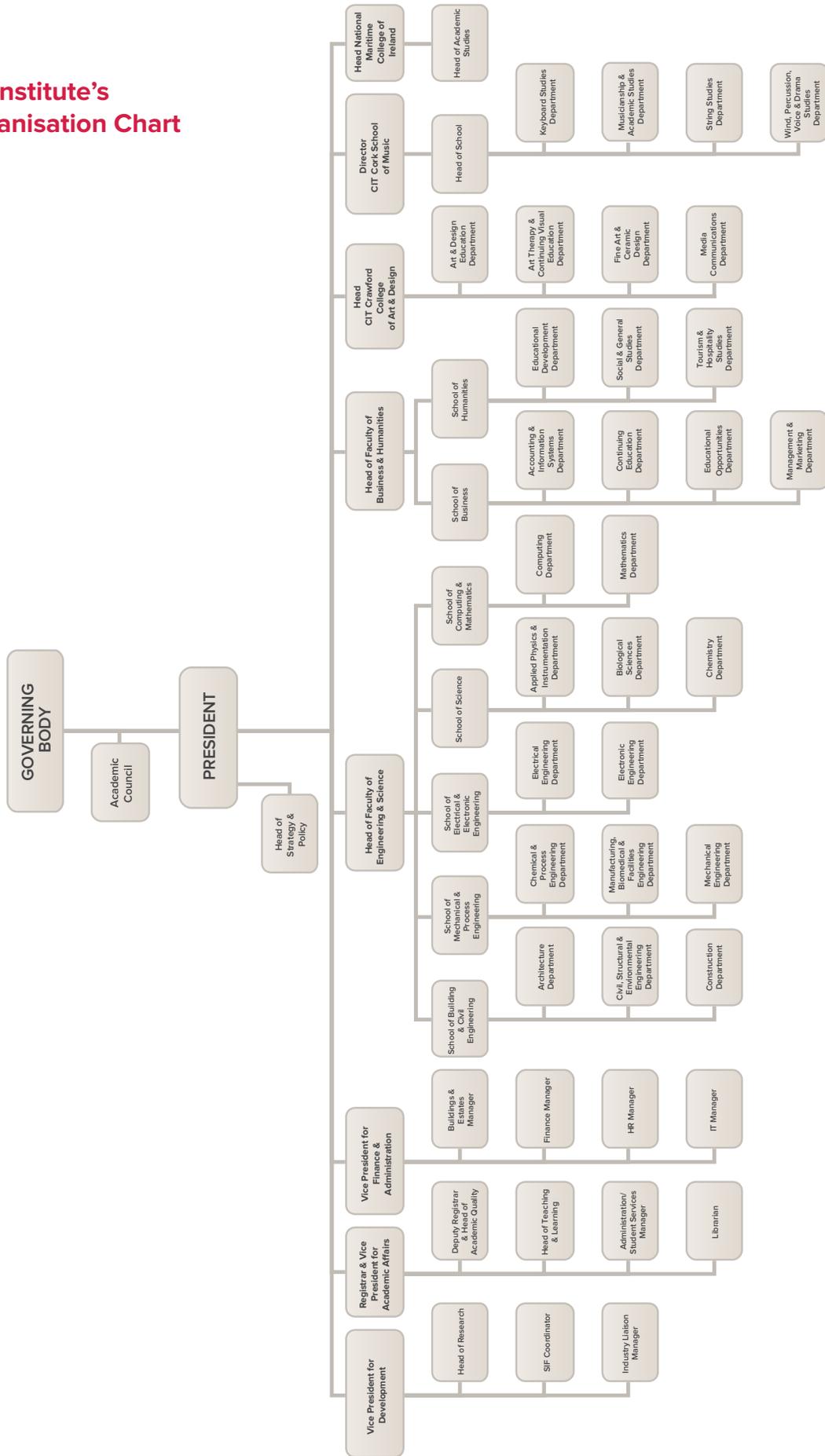
This state-of-the-art College operating from 2004 is located in Ringaskiddy, Co Cork and provides training and education for the Merchant Marine and the non-military needs of the Irish Naval Service (INS). NMCI Services is the commercial arm of the College.

### **Cork Centre for Architectural Education (CCAIE)**

Established in 2006, CCAIE is a joint venture between CIT and UCC. Supported by Cork City Council and the architectural profession within the region, the CCAIE 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.

# 1.5 Institute's Organisation Chart



## 1.6 Special Units and Centres operating within the Institute

*The following Centres and Unit operate under the auspices of the Vice President for Development*

### 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, 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 1800m<sup>2</sup> research building which forms the backbone of the Institute's Strategic Research Cluster in Embedded Networked Systems. 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 will be home to over 80 staff, researchers and post-graduate students when fully occupied.

### 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 2,100m<sup>2</sup>. 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.

### 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 nine Institutes of Technology and two 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 Unit operates under the auspices of the Registrar & Vice President for Academic Affairs:*

### 1. Teaching & Learning Unit

The Teaching & Learning Unit was formed in September 2008. The Unit is responsible for managing, facilitating and monitoring the following activities within CIT:

- Development of an Effective Learning Environment;
- Development of Learning, Teaching and Assessment Strategies;
- Development of Teaching and Learning with Technology (TLT);
- Promotion of Excellence and Innovation in Teaching and Learning;
- Research in the areas of Teaching, Learning and Assessment;
- Support of the Design and Development of Programmes and Curricula.

Membership of the TLU is drawn from each Faculty within the Institute with additional members bringing expertise in areas of e-learning and teaching with technology.

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

### **1. Bio-Explore Strategic Research Cluster**

The Bio-Explore Strategic Research Cluster is a multidisciplinary cluster of researchers, involving members from Biological Sciences, Chemistry, Applied Physics and Instrumentation, and Biomedical Engineering. Bio-Explore researchers will relocate to a new building in 2013. 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 micro electronics 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 – focussing 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 Department of Manufacturing, Biomedical & Facilities Engineering, and the Department of Mechanical 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 and Guilds, American Society for Quality, and the Society of Manufacturing Engineers. The Centre is an Associate Member of the International Academy 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. Centre for Surface & Interface Analysis (CSIA)**

CSIA is based in the Department of Applied Physics and Instrumentation. This Centre was developed, with government and European Union funding, as a specialist facility for the analysis of the surfaces and interfaces of materials. The Centre provides the following range of services on a commercial basis;

- Analytical Services: a commercial surface analysis service aimed at industrial and other users, featuring a rapid turnaround in solving problems that relate to quality assurance, process trouble-shooting and other production issues;
- Contract R & D: pre-competitive and competitive R & D through participation on a partnership basis in projects that originate within industry;
- Education & Training: providing short courses on analytical techniques and other related topics;
- Consultancy: providing access to expert advice, either through in-house expertise or through data-bases and a network of external contract;
- Techniques such as Auger electron spectroscopy (AES), X-ray photoelectron spectroscopy (XPS) and scanning electron microscopy (SEM) are used to analyse surface and sub-surface chemistries of samples under UHV conditions.

#### **4. Cork Centre for Architectural Education (CCAIE)**

Established in 2006, CCAIE is a joint venture between CIT and UCC. Supported by Cork City Council and the architectural profession within the region, CCAIE 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.

#### **5. Clean Technology Centre (CTC)**

The CTC, based at 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 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.

#### **6. Irish National Centre for Membrane Technology (INCMT)**

INCMT is based in the Department of Chemical & Process Engineering.

The INCMT was established to foster academic research in the application of membrane technology and to promote technology transfer in this area. The mission statement of the INCMT is to:

- (i) Promote the use of membrane technology by industry in Ireland,
- (ii) Carry out R & D projects which will foster technology transfer in Ireland and enhance academic understanding, and
- (iii) Create a national network made up of representatives of the relevant industrial sectors, academics, membrane and membrane system suppliers, and other interested parties.

The INCMT has established a vibrant network interested in the field of membrane separation technology through its series of short conferences which were a great success, with attendances ranging from 50 to 100 participants from the biopharmaceutical, fine chemical, food, design consultancy and academic sectors. The Centre, at present, is working towards establishing formal collaborations with other research organisations active in areas relevant to its own research area and with Sectoral groups. It also aims to establish a Steering Committee, which will focus its research on industry needs with the aim of commercialising its research.

The INCMT focus on membrane separations links with CIT's CTC focus on policy development and industrial support in the field of cleaner technologies.

## 7. Photonics Strategic Research Cluster

The Photonics Strategic Research Cluster incorporates the Centre for Advanced Photonics and Process Analysis (CAPP) and the Astronomy and Instrumentation Group (AIG). CAPP operates an industry-interface centre from the Bishopstown Campus established under the Enterprise Ireland Applied Research Enhancement scheme in 2008, with a key objective of the centre to analyse the real-time quality of industry's manufacturing processes without the need for them to interrupt the process. CAPP has approximately 30 researchers, seven on the Bishopstown Campus and 23 in its laboratories in the Tyndall National Institute. Given the regional industrial profile and its needs, the target sectors for CAPP include medical devices, pharmaceuticals, electronics, and naturally photonics itself. CAPP has over 15 industrial partners, including Alcon Ireland, Logitech and Epi-Light.

Alcon is a Medical Device Multinational Company based in Cork producing advanced Intra-ocular lenses for replacement of the eye's natural lens during cataract surgery. Logitech is a world leader in personal peripherals, driving innovation in PC navigation, internet communications, digital music, home-entertainment control, gaming and wireless devices. Epi-Light is an indigenous start-up company based in Cork which develops advanced LED lighting systems for the Life Science, Pharmaceutical and Medical Device sectors.

The industry-interface centre of CAPP will be re-housed to a new state-of-the-art research building in 2013 as a result of success in the PRTL V programme.

*The following Unit 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.

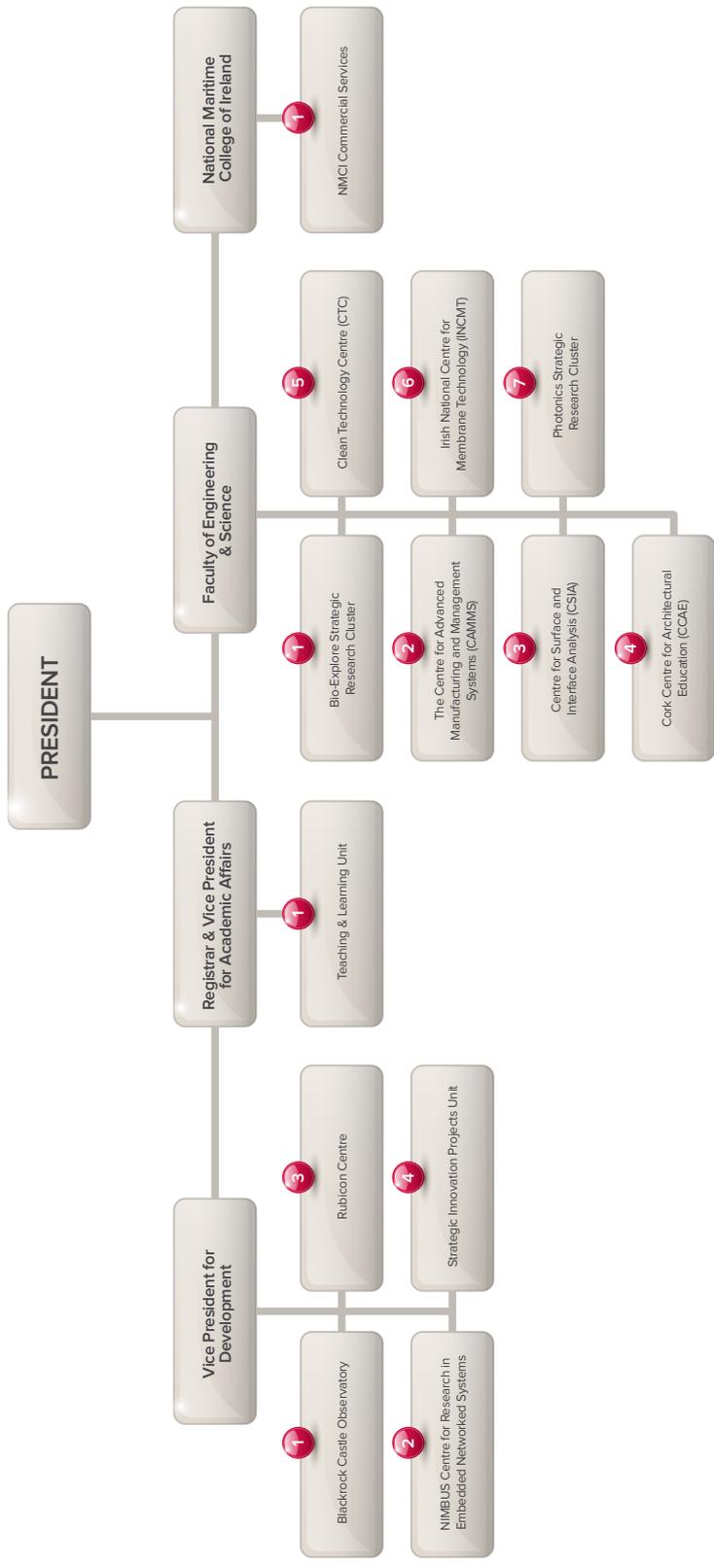
- **GAC Training & Service Solutions Limited (GTSS)**

GAC GTSS, launched on 11 February 2010, is a joint venture company between GAC 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 standards and accreditation for courses to the offshore industry. SNO operates under the College's commercial division, 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.

## 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 Curraheen 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 were 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 have 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.



The 2009/2010 academic year has been a very successful sports season for CIT. The Institute featured prominently in events such as Hockey, Soccer, Athletics, Boxing, Ladies Football, Tae Kwon Do, Racquetball, Hurling, Kickboxing, Camogie, Rock Climbing, Karting, Canoeing, Mountain Biking, Mixed Martial Arts, Volleyball and Golf. CIT prides itself on being involved and competitive in so many sports at such a high level. As well as catering for the competitive athlete, CIT also places a big emphasis on participation and fun and this is reflected in the growing numbers who take part.



# 2. Governance

Cork Institute of Technology

- 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 students 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 2009 to 31 March 2010 was as follows:

Dr Paddy Caffrey, 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 James A. Corr (Nominee of City of Cork VEC)  
Ms Máire Roycroft (Nominee of City of Cork VEC)  
Cllr Terry Shannon (Nominee of City of Cork VEC)  
Mr Barra Ó Briain (Nominee of County Cork VEC)  
Cllr Aileen Pyne (Nominee of County Cork VEC)  
Canon G.A. Salter (Nominee of County Cork VEC)

#### **Two appointed under Section 4(1)(c)**

Dr Mary McCarthy (Academic Staff Nominee)  
Mr John Twohig (Academic Staff Nominee)

#### **One appointed under Section 4(1)(d)**

Mr Peter Somers (Non Academic Staff Nominee)

#### **Two appointed under Section 4(1)(e)**

Mr Gearóid Buckley (Nominee of Students' Union) up to 30 September 2009  
Ms Clodagh Kennedy (Nominee of Students' Union) up to 30 September 2009  
Mr Gearóid Buckley (Nominee of Students' Union) up to 30 September 2010  
Ms Deirdre Conroy (Nominee of Students' Union) up to 30 September 2010

#### **One appointed under Section 4(1)(f)**

Ms Marie Kearney (Nominee of the Irish Congress of Trade Unions)

#### **Five appointed under Section 4(1)(g)**

Mr Gerald M.J. Donovan (Nominee of Cork Chamber of Commerce)  
Ms Valerie Gleeson (Nominee of the Arts Council)  
Mr Denis Lucey (Nominee of Irish Co-Operative Organisation Society Ltd.)  
Sr Mary McDaid (Nominee of the Association of Principals and Vice Principals of post primary schools)  
Mr Billy O'Neill (Nominee of Institution of Engineers of Ireland)

### **From 1 April 2010 to 31 March 2015:**

A new Governing Body was appointed for a five year term from 1 April 2010. Their membership is as follows:

Dr Paddy Caffrey, 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 Aileen Pyne (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 Gearóid Buckley (Nominee of Students’ Union) up to 30 September 2010
- Ms Deirdre Conroy (Nominee of Students’ Union) up to 30 September 2010

**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)
- 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.)



*The newly appointed Governing Body effective from 1 April 2010. Some members of the Institute Executive Board are also included in the photograph.*

## 2.2 Governing Body Meetings

During the period from 1 September 2009 to 31 August 2010, the Governing Body met on 11 separate occasions including four special meetings. They met on the following dates:

Thursday 17 September 2009 (Special Meeting)

Thursday 1 October 2009

Thursday 29 October 2009

Thursday 3 December 2009

Thursday 4 February 2010

Thursday 4 March 2010

Thursday 1 April 2010 (Special Meeting)

Friday 9 April 2010 (Special Meeting)

Thursday 6 May 2010 (Induction Meeting)

Thursday 3 June 2010

Thursday 1 July 2010

## 2.3 Institute Executive Board (IEB)

The Institute Executive Board was set up and held its first meeting in March 2004. Its role and functions are:

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 to formulate Institute policy for approval by the Governing Body, including academic matters, operational issues, the annual returns, and the programmes and budgets for the Institute. The Institute Executive Board is thus a standing instrument of internal consultation between the President's Office and senior management across all academic and administrative functions of the Institute.

The composition of the Institute Executive Board is as follows:

Dr Brendan J. Murphy, President  
Dr Barry O'Connor, Registrar & Vice President for Academic Affairs  
Mr Paul Gallagher, Vice President for Finance & Administration  
Mr Michael Delaney, Vice President for Development  
Mr Michael Loftus, Head of Faculty of Engineering & Science  
Mr Damien Courtney, Head of Faculty of Business & Humanities  
Capt John Clarence, Head, National Maritime College of Ireland  
Dr Geoffrey Spratt, Director, CIT Cork School of Music  
Ms Orla Flynn, Acting Head, CIT Crawford College of Art & Design

The Institute Executive Board meets on a monthly basis and at such other times 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 details of the meetings. Reports from their meetings are circulated to Governing Body and available to staff on the staff intranet.

## 2.4 Institute Senior Staff

The CIT CSM, the CIT CCAD and the NMCI are constituent schools of CIT.

### President

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

### Institute Executive Board

Registrar & Vice President for Academic Affairs  
Vice President for Finance & Administration  
Vice President for Development  
Head of Faculty of Engineering & Science  
Head of Faculty of Business & Humanities  
Head, NMCI  
Director, CIT CSM  
Head, CIT CCAD (Acting)

Dr Barry O'Connor, BE, MEngSc, PhD, BCL, CEng, MIEI  
Mr Paul Gallagher, MSc, FCMA  
Mr Michael Delaney, MSc, MEd, MIBioll, HDipEd, MICI, MESAI, ATCL  
Mr Michael Loftus, BE, MEngSc, MICS  
Mr Damien Courtney, BA, MA(Louv), MPhil(Louv), MIUSSP  
Capt John Clarence, MBA, BA, Master Mariner  
Dr Geoffrey Spratt, BA, PhD  
Ms Orla Flynn, MSc, MA, MICS, MIDI

### Head of Research

Dr Niall Smith, BSc, PhD

### Deputy Registrar & Head of Academic Quality

Mr Ed Riordan, BSc

### Head of Strategy & Policy

Mr Tadhg Leane, BA, MSc

### Head of Teaching & Learning

Dr Stephen Cassidy, BE, MEngSc, PhD, CEng, Eur Ing, MIEI

### SIF Co-Ordinator

Ms Irene Sheridan, BE, MEngSc

### Central Services Managers

Administration & Student Affairs Manager  
Buildings & Estates Manager  
Finance Manager  
Human Resources Manager  
Industry Liaison Manager  
IT Manager

Vacant  
Mr Kevin McCarthy, MSc, CEng, MIEI  
Mr John Cogan  
Mr Anthony Collins, BA  
Ms Josette O'Mullane, BComm, ACMA  
Mr Gerard Culley, BEng, MIEI, CCNA, CISSP

### 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  
Head of Department of Architecture  
Head of Department of Civil, Structural & Environmental Engineering  
Head of Department of Construction

Dr Joseph Harrington, BE, MS, PhD, CEng, FIEI, Eurlng, PE  
Ms Katherine Keane, BSc in Arch, MArch, ARIAI

Mr Desmond Walsh, BE, MSc, DIC, CEng, MIEI, MICE  
Dr Daniel Cahill, MSc, PhD, MRICS

### School of Mechanical & Process Engineering:

Head of School (Acting)  
Head of Department of Chemical & Process Engineering  
Head of Department of Manufacturing, Biomedical & Facilities Engineering  
Head of Department of Mechanical Engineering (Acting)

Mr Matt Cotterell, BE, MED, CMfgE, MIEI, AMIMechE

Mr John O'Shea, BEng, CEng, FICHEM, FIEI

Mr Daithi Fallon, BE, MEngSc, CEng, MIEI, CQE

Mr John O'Shea, BEng, CEng, FICHEM, FIEI

### School of Electrical & Electronic Engineering:

Head of School (Acting)  
Head of Department of Electrical Engineering (Acting)  
Head of Department of Electronic Engineering (Acting)

Mr Matt Cotterell, BE, MED, CMfgE, MIEI, AMIMechE  
Dr Joe Connell, BSc (Eng), MSc (Eng), PhD, CEng, FIEI, MIEEE  
Dr Joe Connell, BSc (Eng), MSc (Eng), PhD, CEng, FIEI, MIEEE

**School of Science:**

Head of School  
 Head of Department of Applied Physics  
 & Instrumentation  
 Head of Department of Biological Sciences  
 Head of Department of Chemistry

Dr Eamonn Cashell, BA(Mod), BSc, PhD, CPhys, MInstP

Dr Liam McDonnell, BSc, PhD, CPhys, FInstP  
 Dr Hugh McGlynn, BSc, PhD, FHEA  
 Dr John Wood, BSc, PhD, CChem, MRSC, FIC

**School of Computing & Mathematics:**

Head of School  
 Head of Department of Computing  
 Head of Department of Mathematics

Vacant  
 Mr Jim O'Dwyer, BA(Mod), HDipEd, CEng, FICS, MBCS  
 Mr Kevin Kelly, BSc, MSc, HDipEd

**Faculty of Business & Humanities**

Head of Faculty

Mr Damien Courtney, BA, MA(Louv), MPhil(Louv), MIUSSP

**School of Business:**

Head of School  
 Head of Department of Accounting  
 & Information Systems (Acting)  
 Head of Department of Continuing Education  
 Head of Department of Educational Opportunities  
 Head of Department of Management & Marketing

Mr Gerard O'Donovan, BComm, MBA, MMII, MICS  
 Ms Caroline O'Reilly, BComm, MBus  
 Mr Paul Mahony, FCA, FCPA, MBus  
 Ms Marese Bermingham, BComm, HDipEd, HDipGC, MIGC  
 Mr Brian McGrath, BComm, FCA, MMII

**School of Humanities:**

Head of School (Acting)  
 Head of Department of Education Development (DEIS)  
 Head of Department of Social & General Studies  
 Head of Department of Tourism & Hospitality Studies

Mr Ray Coughlan, BE(Elec), MEngSc, MIEI  
 Vacant  
 Mr Jim Walsh, BA, HDipEd, BCL, LLB, MEMI  
 Mr Adrian Gregan, BA, MBus, Dip H&C Mgmt, FIHI,  
 Post Grad Dip Hosp Ed

**CIT Cork School of Music**

Director  
 Head of School  
 Head of Department of Keyboard Studies  
 Head of Department of Musicianship  
 & Academic Studies  
 Head of Department of String Studies (Acting)  
 Head of Department of Wind, Percussion, Voice  
 & Drama Studies

Dr Geoffrey Spratt, BA, PhD  
 Ms Aiveen Kearney, MA, BMus, HDE, ATCL  
 Dr Gabriela Mayer, DMA, MMus, BMus, Dip Berlin Hochschule  
 Ms Maria Judge, BMus, Dip Kodály Intézet Hungary  
 Ms Joan Scannell, MA, BMus, DipCSM, LTCL  
 Mr John O'Connor, MA, BMus, HDE, FTCL, LRSM

**CIT Crawford College of Art & Design**

Head (Acting)  
 Head of Department of Art & Design Education  
 Head of Department of Art Therapy &  
 Continuing Visual Education  
 Head of Department of Fine Art & Ceramic Design  
 (Acting)  
 Head of Department of Media Communications  
 (Acting)

Ms Orla Flynn, MSc, MA, MICS, MIDI  
 Mr Albert Walsh, MEd, Dip ADT, ND Design  
 Mr Edward Kuczaj, MA, Dip Art Th, RNMS  
 Mr Kevin Gill, ANCAD, MA  
 Ms Rose McGrath, MA, Dip Ed, BDes

**National Maritime College of Ireland**

Head  
 Head of Academic Studies (Acting)

Capt John Clarence, MBA, BA, Master Mariner  
 Dr Noel Barry, BE, ME, PhD, CEng, MIEI, MPES, MIAS



# 3. Academic & Student Affairs

Cork Institute of Technology

- 3.1 Academic Council Membership
- 3.2 Academic Council Executive Committee Membership
- 3.3 Academic Council Committees
- 3.4 Academic Development
- 3.5 Approved Courses – Full-Time
- 3.6 Approved Courses – Part-Time
- 3.7 Validating Authorities
- 3.8 External Examiners
- 3.9 Student Statistics
- 3.10 Student Prizes

### 3.1 Academic Council Membership

The current members of the Academic Council were appointed in March 2007 and will continue in office for a period of three years.

The Academic Council met on six occasions during the period 1 September 2009 to 31 August 2010 as follows:

Wednesday, 7 October 2009  
 Wednesday, 18 November 2009  
 Wednesday, 20 January 2010  
 Wednesday, 24 February 2010  
 Wednesday, 21 April 2010  
 Friday, 11 June 2010

#### **PRESIDENT**

Brendan J. Murphy

#### **SENIOR ACADEMIC STAFF**

Adrian Gregan	Head of Department of Tourism & Hospitality Studies
Aiveen Kearney	Head of School, CIT CSM
Albert Walsh	Head of Department of Art & Design Education, CIT CCAD
Matt Cotterell	Head of School of Electrical & Electronic Engineering (Acting)
Matt Cotterell	Head of School of Mechanical & Process Engineering (Acting)
Brian McGrath	Head of Department of Management & Marketing
Daiithi Fallon	Head of Department of Manufacturing, Biomedical & Facilities Engineering
Damien Courtney	Head of Faculty of Business & Humanities
Daniel Cahill	Head of Department of Construction
Desmond Walsh	Head of Department of Civil, Structural & Environmental Engineering
Eamonn Cashell	Head of School of Science
Edward 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 CSM
Caroline O'Reilly	Head of Department of Accounting & Information Systems (Acting)
Hugh McGlynn	Head of Department of Biological Sciences
Irene Sheridan	SIF Co-Ordinator
Jim O'Dwyer	Head of Department of Computing
Jim Walsh	Head of Department of Social & General Studies
Joan Scannell*	Head of Department of String Studies (Acting), CIT CSM
Joe Connell	Head of Department of Electronic Engineering (Acting)
Joe Harrington	Head of School of Building & Civil Engineering
John Clarence	Head of the NMCI
John O'Connor	Head of Department of Wind, Percussion, Voice & Drama Studies, CIT CSM
John O'Shea	Head of Department of Chemical & Process Engineering
John Wood	Head of Department of Chemistry
Katherine Keane	Head of Department of Architecture
Kevin Gill	Head of Department of Fine Art & Ceramic Design (Acting), CIT CCAD
Kevin Kelly	Head of Department of Mathematics
Liam McDonnell	Head of Department of Applied Physics & Instrumentation
Marese Bermingham	Head of Department of Educational Opportunities
Maria Judge	Head of Department of Musicianship & Academic Studies
John O'Shea	Head of Department of Mechanical Engineering (Acting)
Michael Loftus	Head of Faculty of Engineering & Science
Joe Connell	Head of Department of Electrical Engineering (Acting)
Orla Flynn	Head (Acting), CIT CCAD
Paul Mahony	Head of Department of Continuing Education
Paul Sliney	Modularisation & Semesterisation Facilitator
Ray Coughlan	Head of School of Humanities (Acting)

Rose McGrath  
Gerard O'Donovan  
Vacant

Head of Department of Media Communications  
Head of School of Business  
Head of Department of Education Development (DEIS)

#### SENIOR EXECUTIVE

Barry O'Connor  
Paul Gallagher  
Michael Delaney

Registrar & Vice President for Academic Affairs  
Vice President for Finance & Administration  
Vice President for Development

#### EX-OFFICIO STAFF

Derry Delaney  
Ed Riordan  
Eva Juhl  
John Twohig  
Niall Smith  
Tadhg Leane

Librarian  
Deputy Registrar & Head of Academic Quality  
Registrar's Office  
Chairperson of Apprenticeship Board of Studies  
Head of Research  
Head of Strategy & Policy

#### STUDENT REPRESENTATIVES

Gearóid Buckley  
John Grant  
Adam O'Brien

President of Students Union, CIT  
Education Vice President of Students' Union, CIT  
Vice President for Education, Students' Union, CIT

#### ELECTED ACADEMIC STAFF

Aidan Coffey  
Aileen Donnelly  
Aine de Róiste  
Ambrose Furey  
Ann Barry  
Ann Wilson  
Bill Corr  
Brian McNamara  
Brian O'Rourke  
Carol A. O'Connor  
Catherine Frehill  
Chris Gibbons  
Christine Pybus  
Colm Barry Murphy  
David Cadogan  
Dermot O'Reilly  
Dirk Pesch  
Felix Raekson  
Gerard Kelly  
Harvey Makin  
Ian O'Sullivan  
James Hayes  
Joan Scannell\*  
John J. Murphy  
John P. Murphy  
Maurice Murphy  
Michael Brennan  
Michael O'Donovan  
Mike Murphy  
Patrick Collins  
Paul Rothwell  
Philip Curtin  
Sheree Borge

School of Science  
CIT CSM  
School of Humanities  
School of Science  
CIT CSM  
School of Humanities  
School of Mechanical & Process Engineering  
CIT CSM  
School of Building & Civil Engineering  
CIT CSM  
School of Science  
School of Mechanical & Process Engineering  
CIT CCAD  
School of Business  
School of Building & Civil Engineering  
NMCI  
School of Electrical & Electronic Engineering  
School of Business  
School of Mechanical & Process Engineering  
School of Science  
School of Mechanical & Process Engineering  
CIT CCAD  
CIT CSM  
School of Building & Civil Engineering  
School of Building & Civil Engineering  
School of Business  
School of Computing & Mathematics  
School of Electrical & Electronic Engineering  
CIT CCAD  
School of Electrical & Electronic Engineering  
School of Computing & Mathematics  
School of Humanities  
School of Business

Stephen Cassidy	School of Mechanical & Process Engineering
Susan O'Regan	CIT CSM
Tim Horgan	School of Computing & Mathematics
Tom O'Mahony	School of Electrical & Electronic Engineering
Violeta Morari	School of Computing & Mathematics

\* Currently in Acting Position as Head of Department of String Studies (Acting), CIT CSM

The new Academic Council were appointed in June 2010 and will continue in office for a period of three years.

## **PRESIDENT**

Brendan J. Murphy

## **SENIOR ACADEMIC STAFF**

Adrian Gregan	Head of Department of Tourism & Hospitality Studies
Aiveen Kearney	Head of School, CIT CSM
Albert Walsh	Head of Department of Art & Design Education, CIT CCAD
Brian McGrath	Head of Department of Management & Marketing
Caroline O'Reilly	Head of Department of Accounting & Information Systems (Acting)
Daithi Fallon	Head of Department of Manufacturing, Biomedical & Facilities Engineering
Damien Courtney	Head of Faculty of Business & Humanities
Daniel Cahill	Head of Department of Construction
Desmond Walsh	Head of Department of Civil, Structural & Environmental Engineering
Eamonn Cashell	Head of School of Science
Ed Riordan	Deputy Registrar & Head of Academic Quality
Edward 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 CSM
Gerard O'Donovan	Head of School of Business
Hugh McGlynn	Head of Department of Biological Sciences
Irene Sheridan	SIF Co-Ordinator
Jim O'Dwyer	Head of Department of Computing
Jim Walsh	Head of Department of Social & General Studies
Joan Scannell	Head of Department of String Studies (Acting), CIT CSM
Joe Connell	Head of Department of Electrical Engineering (Acting)
Joe Connell	Head of Department of Electronic Engineering (Acting)
Joe Harrington	Head of School of Building & Civil Engineering
John Clarence	Head, NMCI
John O'Shea	Head of Department of Mechanical Engineering (Acting)
John O'Connor	Head of Department of Wind, Percussion, Voice & Drama Studies, CIT CSM
John O'Shea	Head of Department of Chemical & Process Engineering (Acting)
John Wood	Head of Department of Chemistry
Katherine Keane	Head of Department of Architecture
Kevin Gill	Head of Department of Fine Art & Ceramic Design (Acting), CIT CCAD
Kevin Kelly	Head of Department of Mathematics
Liam McDonnell	Head of Department of Applied Physics & Instrumentation
Marese Bermingham	Head of Department of Educational Opportunities
Maria Judge	Head of Department of Musicianship & Academic Studies
Matt Cotterell	Head of School of Electrical & Electronic Engineering (Acting)
Matt Cotterell	Head of School of Mechanical & Process Engineering (Acting)
Michael Loftus	Head of Faculty of Engineering & Science
Niall Smith	Head of Research
Noel Barry	Head of Academic Studies (Acting), NMCI
Orla Flynn	Head (Acting), CIT CCAD
Paul Mahony	Head of Department of Continuing Education
Ray Coughlan	Head of School of Humanities (Acting)
Rose McGrath	Head of Department of Media Communications (Acting)
Stephen Cassidy	Head of Teaching & Learning Unit
Tadhg Leane	Head of Strategy & Policy

**SENIOR EXECUTIVE**

Barry O'Connor	Registrar & Vice President for Academic Affairs
Michael Delaney	Vice President for Development
Paul Gallagher	Vice President for Finance & Administration

**EX-OFFICIO STAFF**

Catherine Frehill	Module Moderator
Derry Delaney	Librarian
Eva Juhl	Institutional Review Facilitator
John Twohig	Head of Centre for Craft Studies

**STUDENT REPRESENTATIVES**

Chris Scanlon	Education Vice President of Students' Union, CIT
John Lane	President of Students' Union, CIT

**ELECTED ACADEMIC STAFF***Faculty of Engineering & Science*

Brian O'Rourke	Civil, Structural & Environmental Engineering
Chris Gibbons	Mechanical Engineering
Cilian Ó Súilleabháin (resigned Nov 2010)	Chemical & Process Engineering
David Cadogan	Civil, Structural & Environmental Engineering
Harvey Makin	Applied Physics & Instrumentation
Ian O'Sullivan	Chemical & Process Engineering
John Justin Murphy	Civil, Structural & Environmental Engineering
Marc Ó Riain	Architecture
Michael Brennan	Mathematics
Michael J. O'Mahony	Mechanical Engineering
Niamh Power	Civil, Structural & Environmental Engineering
Ray Looney	Electrical Engineering
Seamus Farrell	Construction
Siobhan O'Sullivan	Biological Sciences
Tom O'Mahony	Electronic Engineering

*Faculty of Business & Humanities*

Aine de Roiste	Social & General Studies
Breda Fogarty	Management & Marketing
Gearóid Ó Súilleabháin	DEIS
Margaret O'Keeffe	DEIS
Maurice Murphy	Management & Marketing

**CIT CCAD**

Ann Wilson	Media Communications
Paul Green	Media Communications

**NMCI**

William Kavanagh	NMCI
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## 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 co-ordinate 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 are 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 seven committees:

**Academic Planning Committee**

Colm Barry-Murphy (Chairman)

**Academic Review Committee**

Tadhg Leane (Chairman)

**Admissions Committee**

Jim O'Dwyer (Chairman)

**Learning Resources Committee**

Dermot O'Reilly (Chairman)

**Regulations Committee**

Kevin Kelly (Chairman)

**Research & Development Committee**

Niall Smith (Chairman)

**Standing Orders Committee**

Jim Walsh (Chairman)

## 3.4 Academic Development

### Institutional Review

The Institutional Review is a comprehensive process organised through HETAC which fulfils statutory and European quality requirements across a wide range of academic, strategic and organisational functions. During the academic year 2009/2010 preparations for this Institutional Review gathered intensity. The process was co-ordinated by a steering group of the Registrar, Dr Barry O'Connor, the Deputy Registrar, Mr Ed Riordan, and the Institutional Review Facilitator, Ms Eva Juhl. The Institute continued to engage with HETAC on the terms of reference and timing of the review. Terms of Reference were agreed in June 2010, and a target date of 8 to 10 November for the Review Visit was agreed.

The intra-Institute process self-evaluation was undertaken by a number of working parties which operated throughout the year, co-ordinated by the Review Facilitator. Two broad phases of activity were carried out, namely a Compliance Review and an Operational Effectiveness Review. An important feature of the self-evaluation was a decision that the very considerable volume of support documentation for consideration by the review body would be compiled and made available through the CIT Gateway web server. Communication with stakeholders such as students and staff was by way of a website and printed newsletters. The formal output of the self-review was a CIT Self Evaluation Report, which was finalised by the steering group in August 2010.

### Joint Awards

The Institute has been active for some years in the area of joint and collaborative provision. Key joint awards and programmes have included the BA (Hons) in Multimedia with the University of Applied Sciences, Darmstadt (Germany), and the BSc (Hons) in Architecture and MSc in Biomedical Science, both with UCC. Experience gained in the development and operation of such programmes indicated the need for a more integrated quality assurance and regulations framework for joint and collaborative provision, and this was also strongly indicated in the relevant HETAC policy documents such as its "Policy for collaborative programmes, transnational programmes and joint awards" published in late 2008. An important consideration for CIT is the fact that delegated authority for joint awards is obtainable from HETAC, and CIT has consistently sought the most extensive awarding powers available to it. Accordingly, a policy for the quality assurance and management of joint and collaborative programmes was developed and presented to Academic Council in October 2009. This policy was subsequently adopted by the Institute, and submitted to HETAC for approval. Such approval is an important step in the acquisition of delegated authority for joint awards.

A further important development concerned the joint Architecture programmes offered with UCC through the CCAE. A series of intensive meetings with UCC personnel led to agreement of joint marks and standards for these programmes. Prior to such agreement, the marks and standards of both institutions applied, with a protocol that the provisions most favourable to the student would apply. The unified set of marks and standards represents a more coherent and logical approach. Following the success of these discussions, further meetings between CIT Registrar's Office and UCC Registrar's Office took place to devise a more global approach to the Quality Assurance of joint CIT-UCC programmes.

### Programmatic Reviews

CIT implemented a two-phase approach to programmatic reviews, i.e. a strategic phase and a subsequent programme-level phase. During the 2009/2010 academic year, the following programmatic reviews were progressed:

CIT CSM: Phase 1 had been held in May 2009, with Dr Joseph Ryan, Registrar of Athlone Institute of Technology in the chair. The report of Phase 1 was developed and circulated during the year, and Phase 2 was held in May 2010.

CIT CCAD: Phase 1 had been held in April 2009, chaired by Prof Alan Livingston CBE, Rector of University College Falmouth. Phase 2 was held in October 2009 and the report was adopted by Academic Council.

On a larger scale, a full programmatic Review of Business and Humanities was undertaken, with Phase 1 being held in November 2009 and Phase 2 in May 2010. The chairperson was Dr Oliver Murphy of Institute of Technology Tralee. The reports on both phases were subsequently adopted by Academic Council.

### New Programme Development

The Institute continued to develop and diversify its programme portfolio. It is notable that due to the efforts of academic departments and of the quality assurance processes overseen by Academic Council, a very significant set of new programmes were offered to learners for the first time in the 2009/2010 session. These programmes included: BBus (Hons) in Tourism and BBus in Tourism; BBus (Hons) in Hospitality Management; BSc in Horticulture; MA in Music & Technology; MSc in Networking & Security; HC and BA in Leadership, Management & Naval Studies; BBus (Hons) in Marketing; MA in Public Relations with New Media; MA in Art & Design Education; MA in Teaching Arts for Primary and Early Years Education; BA (Hons) in

Early Years Education; MEng in Embedded Systems; BSc (Hons) in Transport Management; BSc (Hons) in Biomedical Science; BEng (Hons) in Building Services Engineering.

### **Programme Conversions**

The Institute continued its process of conversion of 3 + 1 year courses (i.e. Level 7 with honours degree add-on) into ab initio four year honours degrees. Such converted programmes offered in 2009/2010 included the following new CAO Level 8 programmes: BSc (Hons) in Architectural Technology; BA (Hons) in Visual Communications; BEng (Hons) in Electronic Systems Engineering; BSc (Hons) in Construction Management; BSc (Hons) in Quantity Surveying; BSc (Hons) in Pharmaceutical Biotechnology; BSc (Hons) in Nutrition & Health Science; BSc (Hons) in Interior Architecture; BSc (Hons) in Instrument Engineering.

### **Further Academic Issues**

During 2009/2010 the Academic Council discussed a very wide range of issues, based on position papers developed at Council Committees, the Institute Executive Board and the Registrar's Office amongst others.

A formal Review of the implementation of Modularisation & Semesterisation (M & S) was recommended to take place in the 2010-2011 academic year. Council noted that by then there should be sufficient experience gained to evaluate the impact of M & S.

There was widespread consultation on the academic calendar which had been put in place to accompany semesterisation in 2008. Following consideration of various alternatives, it was agreed to maintain pro tem the 2008 model, while endeavouring to have semester 1 examinations completed before Christmas to the greatest extent possible.

A further development related to modularisation was the commencement in the Registrar's Office of a module moderation service, which was designed to advise and improve the quality of current and new modules in technical and pedagogical terms. The module moderator (an experienced academic on part-secondment) engaged with the various programmatic reviews and new programme submissions, as well as dealing with revisions to existing modules.

Detailed procedures for Student Grievances and for the operation of a CIT Student Ombudsman service were agreed and were adopted by Governing Body.

A report on the formation of a School of Graduate Studies was adopted by Council, and was recommended to Governing Body.

The term of office of the outgoing Academic Council expired in March 2010. Following elections, the membership of a new Council was approved by Governing Body in June 2010.

## 3.5 Approved Courses – Full-Time

### School of Science

#### *Department of Applied Physics & Instrumentation*

Bachelor of Science in Applied Physics & Instrumentation - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Applied Physics & Instrumentation  
 Bachelor of Science (Hons) in Computerised Instrumentation Systems - Years 1, 2, 3 & 4  
 Bachelor of Science (Hons) in Instrument Engineering - Years 1, 2, 3 & 4  
 MSc  
 PhD

#### *Department of Biological Sciences*

Bachelor of Science in Science (Biology) - Years 1 & 2  
 Bachelor of Science in Food Science & Technology  
 Bachelor of Science in Applied Biosciences & Biotechnology  
 Bachelor of Science (Hons) in Applied Biosciences  
 Bachelor of Science in Biomedical Science - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Herbal Science - Years 1, 2, 3 & 4 (ab initio)  
 Bachelor of Science (Hons) in Biomedical Science - Years 1, 2, 3 & 4  
 Bachelor of Science (Hons) in Pharma Biotechnology - Years 1, 2, 3 & 4  
 Bachelor of Science (Hons) in Nutrition & Health Science - Years 1, 2, 3 & 4  
 MSc in Healthcare Manufacturing (Taught) (Joint with UCC)  
 MSc  
 PhD

#### *Department of Chemistry*

Bachelor of Science in Analytical & Pharmaceutical Chemistry - Years 1, 2 & 3  
 Common Entry Science Levels 7 & 8 - Year 1  
 Bachelor of Science (Hons) in Analytical Chemistry with Quality Assurance – Years 1, 2, 3 & 4  
 MSc  
 PhD

### School of Computing & Mathematics

Bachelor of Science in Computing - Years 1, 2 & 3  
 Bachelor of Science (Hons) in IT Management - Years 1, 2, 3 & 4  
 Bachelor of Science in Information Technology Support - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Software Development - Years 1, 2, 3 & 4  
 Bachelor of Science (Hons) in Software Development with a Language (French) - Year 4  
 Bachelor of Science (Hons) in Software Development with a Language (German) - Year 4  
 Bachelor of Science (Hons) in Software Development & Computer Networking - Years 1, 2, 3 & 4  
 MSc  
 PhD

### School of Business

#### *Department of Accounting & Information Systems*

Bachelor of Business in Accounting - Years 1 & 2  
 Bachelor of Business in Business Administration - Years 1, 2 & 3  
 Bachelor of Business (Hons) in Accounting - Years 1, 2 & 4  
 Bachelor of Science in Agriculture - Years 1, 2 & 3  
 Bachelor of Science in Horticulture - Years 1, 2 & 3  
 Bachelor of Business (Hons) in Information Systems - Years 1, 2, 3 & 4  
 MBus

***Department of Management & Marketing***

Bachelor of Business in Business Studies - Years 1 & 2  
 Bachelor of Business in Marketing  
 Bachelor of Business in Management  
 Bachelor of Business (Hons)  
 Bachelor of Business (Hons) in Marketing - Years 1, 2, 3 & 4  
 MBus  
 PhD

***Department of Educational Opportunities***

Bachelor of Business - Years 1 & 2 (EOD)

**School of Humanities*****Department of Social & General Studies***

Bachelor of Arts in Social Care - Years 1, 2 & 3  
 Bachelor of Arts (Hons) in Social Care - Years 1, 2 & 3  
 Bachelor of Arts in Early Childhood Care & Education - Years 1, 2 & 3 (ab initio)  
 Bachelor of Arts in (Hons) Early Childhood Care & Education - Year 4  
 Bachelor of Business in Recreation & Leisure Management - Years 1, 2 & 3  
 MA  
 PhD

***Department of Tourism & Hospitality Studies***

Bachelor of Business in Business in Tourism - Years 1, 2 & 3  
 Bachelor of Business in Hospitality Management - Years 1, 2 & 3  
 Bachelor of Business (Hons) in Hospitality Management - Year 4  
 Bachelor of Business in Bar Management (ab initio) - Years 1, 2 & 3  
 Bachelor of Business in Culinary Arts (ab initio) - Years 1, 2 & 3  
 Bachelor of Business (Hons) in Tourism - Years 1, 2, 3 & 4  
 MA

***DEIS***

Bachelor of Arts in Community Education & Development - Years 1, 2 & 3  
 Bachelor of Arts (Hons) in Community Education & Development  
 MA  
 PhD

**School of Building & Civil Engineering*****Department of Civil, Structural & Environmental Engineering***

Bachelor of Engineering in Civil Engineering - Years 1, 2 & 3  
 Bachelor of Engineering (Hons) in Structural Engineering - Years 1, 2, 3 & 4 (ab initio)  
 Common Entry Engineering Level 8 - Year 1  
 MSc  
 M Eng  
 PhD

***Department of Architecture***

Bachelor of Science in Interior Architecture - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Architectural Technology - Years 1, 2, 3 & 4  
 Bachelor of Science in Architectural Technology - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Interior Architecture - Years 1, 2, 3 & 4  
 MSc in Architecture (Joint with UCC)  
 Bachelor of Science (Hons) in Architecture (Joint with UCC) - Years 1, 2, 3 & 4  
 Chartered Institute of Building - Prof. Studies Level 3

***Department of Construction***

Bachelor of Science in Construction - Years 1 & 2  
 Bachelor of Science in Construction Economics  
 Bachelor of Science in Construction Management  
 Bachelor of Science (Hons) in Quantity Surveying - Years 1, 2, 3 & 4  
 Bachelor of Science (Hons) in Construction Management - Years 1, 2, 3 & 4

**School of Mechanical & Process Engineering*****Department of Chemical & Process Engineering***

Bachelor of Engineering (Hons) in Chemical & Process Engineering - Years 1, 2, 3 & 4  
 Higher Certificate in Science in Good Manufacturing Practice & Technology - Years 1 & 2  
 M Eng  
 PhD

***Department of Manufacturing, Biomedical & Facilities Engineering***

Bachelor of Engineering in Manufacturing Engineering  
 Bachelor of Science (Hons) in Advanced Manufacturing Technology (add on)  
 Bachelor of Engineering in Building Services Engineering - Years 1, 2 & 3  
 Bachelor of Engineering in Biomedical Engineering - Years 1, 2 & 3  
 Bachelor of Engineering (Hons) in Biomedical Engineering - Years 1, 2, 3 & 4 (ab initio)  
 M Eng  
 MSc  
 PhD

***Department of Mechanical Engineering***

Bachelor of Arts in Transport Management & Technology - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Transport Management - Year 4  
 Bachelor of Engineering in Mechanical/Manufacturing Engineering - Years 1 & 2  
 Bachelor of Engineering in Mechanical Engineering  
 Bachelor of Science (Hons) in Process Plant Technology (add on)  
 Bachelor of Engineering (Hons) in Mechanical Engineering - Years 1, 2, 3 & 4  
 Bachelor of Engineering (Hons) in Sustainable Energy - Years 1, 2, 3 & 4  
 M Eng  
 PhD

**School of Electrical & Electronic Engineering*****Department of Electrical Engineering***

Bachelor of Engineering in Electrical Engineering - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Electrical Power Systems - Years 1 & 2  
 M Eng

***Department of Electronic Engineering***

Bachelor of Engineering in Electronic Engineering - Years 1, 2 & 3  
 Bachelor of Engineering in Applied Electronics Design  
 Bachelor of Engineering in Communications Systems  
 Bachelor of Engineering in Electronic Automation & Robotics  
 Bachelor of Engineering (Hons) in Electronic Systems Engineering - Years 1, 2, 3 & 4  
 Bachelor of Engineering (Hons) in Electronic Engineering - Years 1, 2, 3 & 4  
 M Eng  
 PhD

**National Maritime College of Ireland**

Bachelor of Science in Nautical Science - Years 1, 2 & 3  
 Bachelor of Science (Hons) in Nautical Science/Chiefmate, Master  
 Bachelor of Engineering in Marine & Plant Engineering - Years 1, 2 & 3  
 SEA 1 - Seamanship - Years 1, 2 & 3  
 Chiefmate, Master

**CIT Cork School of Music**

B Music (Hons) Years 1, 2, 3 & 4  
 MA Music (Research)  
 MA Music (Taught)  
 PhD (Music)

**CIT Crawford College of Art & Design**

Bachelor of Arts in Fine Art/Ceramics - Year 1  
 Bachelor of Arts in Fine Art - Years 2 & 3  
 Bachelor of Arts (Hons) in Fine Art - Years 1, 2, 3 & 4  
 Bachelor of Arts in Ceramic Design - Years 2 & 3  
 Bachelor of Arts (Hons) in Ceramic Design - Years 1, 2, 3 & 4  
 Post Diploma Studies (Fine Art or Ceramics)  
 Higher Diploma in Arts for Art & Design Teachers  
 M Arts in Fine Art  
 M Arts in Art Therapy

***Department of Media Communications***

Bachelor of Arts in Design Communications - Years 1, 2 & 3  
 Bachelor of Arts (Hons) in Visual Communications  
 Bachelor of Arts (Hons) in Multimedia - Years 1, 2, 3 & 4  
 Diploma Applied Business in Computing (with UCC) - Years 1 & 2  
 Bachelor of Arts (Hons) in Visual Communications - Years 1, 2, 3 & 4  
 M Arts (Multi-Media)  
 MA Public Relations  
 M Arts (Media Design)

## 3.6 Approved Courses – Part-Time

The following part-time courses operated in the academic year 2009/10.

### School of Science

#### *Department of Applied Physics & Instrumentation*

Higher Certificate in Science in Industrial Measurement and Control - Years 1 & 2  
Short course in Industrial Automation

#### *Department of Chemistry*

Certificate in Quality Assurance  
Diploma in Quality Management (Parts I & II)

#### *Department of Biological Sciences*

Bachelor of Science (Hons) in Applied Biosciences – Year 4  
MSc Biomedical Sciences (Taught) (Joint with UCC)

### School of Computing & Mathematics

Master of Science in Software Development  
Bachelor of Science in Computing in Information Technology Support (ACCS)  
Certificate in CISCO Certified Network Associate  
CISCO Certified Network Professional M4  
Higher Certificate in Science in Computing - Years 1 & 2 (ACCS)  
IT/Essentials 1/COMPTIA A+  
Bachelor of Science (Hons) in Computer Services Management (ACCS)  
Certificate in Comp TIA Network+  
Comp TIA Linux+ (Getting Started with Linux)  
MSc in Networking & Security

### School of Business

Institute Certified Public Accountants (Formation 2)  
Institute Certified Public Accountants (Professional 1 & 2)  
Institute of Accounting Technicians of Ireland - Years 1 & 2  
Diploma in Financial Management  
Foundation Certificate in Personnel Practice  
Road Transport - Cert of Professional Competence (CPC)  
Bachelor of Business – Years 1 & 2  
Bachelor of Business in Management - Years 1, 2 & 3  
Introductory Bookkeeping & Accounting  
Bachelor of Business (Hons) - Years 4 & 5  
Higher Certificate in Business in Office Information Systems - Year 2  
MBus (Taught)  
Bachelor of Arts in Human Resource Management - Years 1, 2 & 3  
Diploma in Supply Chain Management - Parts I, II & III  
Bachelor of Business Accounting - Year 2  
PIM CMOD  
PIM Italian  
Environmental Protection

## **School of Humanities**

### *Department of Social & General Studies*

One Year Certificate in Counselling Skills  
 Higher Certificate in Arts in Counselling Skills  
 Bachelor of Arts (Hons) in Counselling and Psychotherapy - Years 3 & 4

### *Department of Tourism & Hospitality Studies*

Practical Bakery Techniques

### **DEIS**

PIM

## **School of Building & Civil Engineering**

### *Department of Civil, Structural & Environmental Engineering*

Bachelor of Engineering in Civil Engineering - Years 1 & 2  
 Bachelor of Engineering in Civil Engineering (ACCS) - Year 3

### *Department of Architecture*

Certificate in Construction Technology  
 Certificate in Engineering Technology

### *Department of Construction*

Bachelor of Science in Construction Economics  
 Safe Pass  
 Bachelor of Science in Construction Management

## **School of Mechanical & Process Engineering**

### *Department of Chemical & Process Engineering*

New Opportunities for Women (NOW)  
 Higher Certificate in Science in Good Manufacturing Practice & Technology - Years 1 & 2  
 Bachelor of Science in Good Manufacturing Practice & Technology

### *Department of Manufacturing, Biomedical & Facilities Engineering*

Welding 165 - Levels 2 & 3  
 Certified Manufacturing Engineer  
 Project Management  
 SCADA (Supervisory Control and Data Acquisition)  
 Coded Welding ASME EN287  
 2800 Mechatronics (Pneumatics, Electro-Pneumatics & PLCs C & G)  
 Six Sigma Green Belt  
 Energy Management  
 Wave Energy  
 Robotics  
 Introduction to Sustainable Energy  
 Solar Domestic Hot Water Systems  
 Coded Welding EN287SS  
 Wind Generation S3  
 Bachelor of Science (Hons) in Advanced Manufacturing Technology

***Department of Mechanical Engineering***

Bachelor of Engineering in Mechanical Engineering  
 Technician Diploma in Mechanical Engineering  
 Advanced Technician Diploma in Mechanical Engineering  
 Auto Electricity Elementary, Intermediate & Advanced  
 Garage Organisation & Management  
 Bachelor of Science (Hons) in Process Plant Technology

**School of Electrical & Electronic Engineering*****Department of Electrical Engineering***

AC and DC Elementary Electrical Engineering (SEC)  
 CGLI Course 236 Part 2 (Course B)  
 Programmable Logic Controllers 1  
 Phases 4 & 6 Electrical Science Refresher

***Department of Electronic Engineering***

MEng in Telecommunications (Taught)

**National Maritime College of Ireland**

Marine Engineering Chief, Second Engineer, OOW  
 OOW Engineering Preparatory Course  
 Rib Operator  
 Sea Fisheries Protection  
 Team Building  
 Bachelor of Business in Supply Chain and Transport Management

**CIT Crawford College of Art & Design**

Drawing from Life  
 Photography 2  
 Pottery 1 & 2  
 Stained Glass  
 Painting & Drawing  
 Textiles  
 Painting 1  
 Folder Preparation (Saturday) (PPSAT)  
 Certificate Group Arts Facilitation  
 Certificate Art Therapy  
 Certificate Arts Participation & Development  
 MA Teaching Visual Arts for Primary & Early Years  
 MA Art & Design Education

***Department of Media Communications***

HDip Arts in Public Relations - Year 4  
 PIM CMOD Repeat  
 Media Production

**CIT Cork School of Music**

Piano  
Organ  
Harpsichord  
Piano Ensemble  
Jazz Piano  
Organ Keyboard Skills  
Violin  
Orchestra  
Guitar  
Junior Guitar Ensemble  
Harp  
Suzuki Violin  
Viola  
Cello  
Suzuki Cello  
Double Bass  
Chamber Music  
Recorder  
Trombone  
Tuba  
Percussion  
Flute Class  
Youth Music Project (The Glen)  
Voice  
Opera Studio  
Speech Class  
Speech & Drama  
Flute  
Speech Theory  
Drama  
Recorder Ensemble  
Wind Ensemble  
Concert Band  
Jazz Big Band  
Junior Bands  
Percussion Ensemble  
Oboe  
Brass Ensemble  
Vocal Support Studies  
Clarinet  
Bassoon  
Saxophone  
French Horn  
Trumpet  
Musicianship (including Mus. Skills for Adults, Windwise, Junior Cert and Leaving Cert)  
Composition/ Rudiments  
Theory Individual  
Choirs

## 3.7 Validating Authorities

11 June 2001 saw the establishment of the Higher Education & Training Awards Council (HETAC). This Council, together with the Further Education and Training Awards Council (FETAC) and the National Qualifications Authority of Ireland (NQA) form part of a radical legislative and practical overhaul arising from the Qualifications (Education and Training) Act 1999.

### Higher Certificate, Ordinary Bachelor Degrees and Honours Degrees

The implementation of the National Framework of Qualification (NFQ) by the NQA in October 2003, in conjunction with HETAC, resulted in the conversion of National Certificates being revalidated as Higher Certificates at Level 6 of the Framework, National Diplomas being revalidated as Ordinary Bachelor Degrees at Level 7 and Degrees being revalidated as Honours Degrees at Level 8.

### Higher Education & Training Awards Council

HETAC is the legal successor to the National Council for Educational Awards (NCEA), but its powers are significantly different. HETAC is essentially an awarding and quality assurance body. Many functions of the NCEA have been delegated to the Institutes of Technology, for example, appointment of external examiners.

#### HETAC's main functions include:

- Setting standards for higher education and training awards;
- Validation of higher education and training programmes;
- Monitoring of institutional quality assurance procedures;
- Delegation of awarding powers to recognised institutions;
- Ensuring that student assessment procedures are fair and consistent.

### 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 FETAC.

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

### Further Education & Training Awards Council (FETAC)

The Institute also provides part-time and block-release courses in the Tourism, Hospitality and Catering areas. These courses are validated by FETAC.

### City & Guilds of London Institute (CGLI)

Many of the part-time courses conducted by the Institute in the Departments of Manufacturing, Biomedical & Facilities Engineering, Electrical Engineering, and Mechanical Engineering are also validated by the City & Guilds of London Institute as the courses are designed to meet the required content and standards.

### Institute of Public Administration (IPA)

The IPA examines and validates the part-time course for Bachelor of Business Studies Award. (The full-time course is validated by HETAC).

### Additional Recognition of CIT Courses

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
- Teachers Registration 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
- Teachers Registration Council

#### **Bachelor of Science (Hons) in Applied Biosciences**

- Teachers Registration Council

#### **Bachelor of Engineering (Hons) in Structural Engineering**

- Engineers Ireland (Chartered\*)
- FEANI
- Washington Accord

#### **Bachelor of Engineering (Hons) in Mechanical Engineering**

- Engineers Ireland (Chartered\*)
- FEANI
- Washington Accord

#### **Bachelor of Engineering (Hons) in Chemical and Biopharmaceutical Engineering**

- Engineers Ireland (Chartered\*)
- FEANI
- Washington Accord
- Institution of Chemical Engineers (IChemE)

#### **Bachelor of Science (Hons) in Architectural Technology**

- Chartered Institute of Building

**Higher Certificates/Bachelor Degrees in Electrical Engineering, Building Services Engineering**

- Engineers Ireland (Associate\*)
- Chartered Institution of Building Services Engineers

**Higher Certificates/Bachelor Degrees in Electrical/Electronic/Mechanical/ Manufacturing Engineering**

- Engineers Ireland (Associate\*)

**Bachelor of Engineering in Marine & Plant Engineering**

- Engineers Ireland (Associate\*)

**Bachelor of Music (Hons) (Pedagogic Studies: Suzuki String Methodology)**

- European Suzuki Association (ESA)

**Bachelor of Business (Hons)/Bachelor of Business in Accounting/Higher Certificate in Business/Higher Certificate in Accounting**

- 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 Business in Hospitality Management**

- Irish Hospitality Institute

**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 Arts in Design Communication/Bachelor of Arts (Hons) in Visual Communication**

- Institute of Designers of Ireland

**MA in Art Therapy**

- Irish Association of Art Therapists

\* Eligible following appropriate experience

**Accreditation of CIT Engineering Honours Degrees**

- Bachelor of Engineering (Hons) in Chemical & Process Engineering
- Bachelor of Engineering (Hons) in Structural Engineering
- Bachelor of Engineering (Hons) in Mechanical 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'Ingenieurs (FEANI) Group One registration requirements and thus meet the academic requirements for the award of the title European Engineer (Eurlng). 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, UK, Canada, Australia, New Zealand, South Africa, Hong Kong, and Ireland.

## 3.8 External Examiners

### FACULTY OF BUSINESS & HUMANITIES

#### *Department of Accounting & Information Systems*

Dr Laurence P. Elwood

- Master of Business in Accounting & Information Systems
- Bachelor of Business in Information Systems

Mr Brian Hutchinson

- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems
- Bachelor of Business in Business Administration
- Bachelor of Science in Agriculture

Mr Eoin Langan

- Bachelor of Business (Hons) in Accounting
- Bachelor of Business in Accounting
- Bachelor of Business in Business Administration

Mr Keith McManus

- Bachelor of Business in Business Administration
- Bachelor of Business in Accounting

Mr Frank (Francis) Murphy

- Bachelor of Science in Agriculture

Dr Margaret Norton

- Bachelor of Science in Horticulture

Dr Philip O'Regan

- Bachelor of Business in Accounting
- Bachelor of Business (Hons) in Accounting
- Bachelor of Business (Hons) in Information Systems

Dr Larry Stapleton

- Bachelor of Business (Hons) in Business Information Systems

Dr Ann Torres

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

#### *Department of Continuing Education*

Mr Damien Burns

- Bachelor of Arts in Human Resource Management

Ms Linda Clifford

- Bachelor of Arts in Human Resource Management
- Certificate in Human Resource Management & Development

Dr Christine Cross

- Bachelor of Arts in Human Resource Management

Dr Claire Gubbins

- Taught Masters in Business Studies

Ms Bridgid Milner

- Bachelor of Arts in Human Resource Management
- Bachelor of Arts (Hons) in Human Resource Management

Mr Michael Murphy

- Bachelor of Business in Management (PT & ACCS)

#### *DEIS*

Dr Sandra McAvoy

- Bachelor of Arts in Community Education & Development
- Bachelor of Arts (Hons) in Community Education & Development

Mr Aidan Warner

- Bachelor of Arts in Community Education & Development
- Bachelor of Arts (Hons) in Community Education & Development

#### *Educational Opportunities Department*

Mr Conor Buckley

- Higher Certificate in Science in GMP & Technology

Dr Oliver Joyce

- Higher Certificate in Science in GMP & Technology

#### *Department of Management & Marketing*

Ms Kristin Brogan

- German - Module Extern

Mr Tom Coughlan

- Bachelor of Business
- Bachelor of Business (Hons)

Ms Deirdre Creagh

- Bachelor of Business (Spanish)

Ms Angela Feeney

- Higher Certificate in Business
- Bachelor of Business in Marketing
- Bachelor of Business in Accounting

Dr Declan Fleming

- Bachelor of Business
- Bachelor of Business (Hons)
- Bachelor of Business in Marketing

Dr Claire Gubbins

- Bachelor of Business in Management

Mr Keith McManus

- Bachelor of Business
- Higher Certificate in Business
- Bachelor of Business in Management

Mr Michael Murphy

- Bachelor of Business in Management

Dr Ann Torres

- Bachelor of Business
- Bachelor of Business (Hons)
- Bachelor of Business (Hons) in Marketing

#### ***Department of Social & General Studies***

Mr Andrew Denton

- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) Social Care

Dr Maurice Devlin

- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

Mr Conor Kelleher

- Bachelor of Business in Recreation & Leisure

Ms Suzanne Kennedy

- Bachelor of Business in Recreation & Leisure Management

Ms Denise Lyons

- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

Dr Ciaran McCullagh

- Bachelor of Arts in Social Care

Ms Miriam McGillycuddy

- Bachelor of Arts in Social Care
- Bachelor of Arts in Early Childhood Care

Dr Sinead McGilloway

- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

Mr John McHugh

- Bachelor of Arts in Social Care
- Bachelor of Arts (Hons) in Social Care

Mr Colm O'Doherty

- One year Certificate in Counselling Skills
- Higher Certificate in Counselling Skills
- Bachelor of Arts (Hons) in Counselling & Psychotherapy

Dr Orla O'Donovan

- Bachelor of Arts in Early Childhood Care & Education
- Bachelor of Arts in Social Care

Ms Kathryn O'Riordan

- Bachelor of Arts in Early Childhood Care & Education

Dr Jacqui O'Riordan

- Bachelor of Arts in Early Childhood Care & Education

Mr Ger Phillips

- Bachelor of Arts in Social Care

Mr Tom Ryan

- One Year Certificate in Counselling Skills
- Higher Certificate in Counselling Skills
- Bachelor of Arts (Hons) in Counselling & Psychotherapy

#### ***Department of Tourism & Hospitality Studies***

Mr John Clancy

- Bachelor of Business in Culinary Arts

Ms Sandra Griselain

- Advanced Certificate in Tourism & Hospitality

Dr James Hanrahan

- Bachelor of Business in Tourism

Dr Ivor David Hixon

- Bachelor of Business in Culinary Arts

Dr Catriona Murphy

- Bachelor of Business in Tourism

Mr Martin Neville

- Bachelor of Business in Culinary Arts
- Bachelor of Business in Bar Management
- Bachelor of Business in Hospitality Management

Ms Mary Reid

- Advanced Certificate in Professional Cookery – FETAC L6 (Full & Part-time)
- Higher Certificate in Culinary Studies

Ms Dymphna Scanlon

- Bachelor of Business in Hospitality Management

Mr Michael Stapleton

- Bachelor of Business in Hospitality Management

### **FACULTY OF ENGINEERING & SCIENCE**

#### ***Department of Applied Physics & Instrumentation***

Mr Eamonn Burke

- Bachelor of Science in Applied Physics & Instrumentation
- Higher Certificate in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Instrument Engineering
- Bachelor of Science (Hons) in Computerised Instrument Systems

Dr Vincent Casey

- Higher Certificate in Science in Industrial Measurement & Control
- Bachelor of Science in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Applied Physics & Instrumentation
- Bachelor of Science (Hons) in Instrument Engineering

Mr Jim McComb

- Higher Certificate in Science in Industrial Measurement & Control
- Bachelor of Science (Hons) in Computerised Instrument Systems
- Module Extern – Dept. Based Modules

### ***Department of Architecture***

Prof Jonathan Hill

- Bachelor of Science (Hons) in Architecture

Ms Elizabeth Kirby

- Bachelor of Science in Interior Architecture
- Bachelor of Science (Hons) in Interior Architecture

Mr Neville Knott

- Bachelor of Science in Interior Architecture
- Bachelor of Science (Hons) in Interior Architecture

Prof Michael McGarry

- Bachelor of Science (Hons) in Architecture

Mr Gareth O'Callaghan

- Bachelor of Science in Architectural Technology
- Bachelor of Science (Hons) in Architectural Technology

Ms Sima Rouholamin

- Bachelor of Science in Architectural Technology
- Bachelor of Science (Hons) in Architectural Technology

### ***Department of Biological Sciences***

Dr Jerry Bird

- Bachelor of Science (Hons) in Pharmaceutical Biotechnology

Mr Paul Cantwell

- Bachelor of Science in Biomedical Science

Dr Dilis Clare

- Bachelor of Science (Hons) in Herbal Science

Ms Sinead Daly

- Bachelor of Science (Hons) in Biomedical Science

Dr Don Faller

- Higher Certificate in Applied Biology
- Bachelor of Science in Food Science & Technology
- Bachelor of Science in Cell & Molecular Biology
- Bachelor of Science (Hons) in Applied Biosciences

Dr Alison Gallagher

- Bachelor of Science (Hons) in Nutrition & Health Science

Mr John Gibbons

- Bachelor of Science in Biomedical Science

Prof William Gilmore

- Bachelor of Science (Hons) in Biomedical Science

Ms Coranne Heffernan

- Bachelor of Science in Biomedical Science

Ms Katherine Hooley

- Bachelor of Science in Biomedical Science

Ms Caroline Joyce

- Bachelor of Science in Biomedical Science

Ms Eithne Murphy

- Bachelor of Science in Biomedical Science

Mr Pádraig O'Sullivan

- Bachelor of Science in Biomedical Science

Prof Gary Walsh

- Higher Certificate in Applied Biology
- Bachelor of Science in Food Science & Technology
- Bachelor of Science in Cell & Molecular Biology
- Bachelor of Science (Hons) in Applied Biosciences

Prof Elizabeth Williamson

- Bachelor of Science (Hons) in Herbal Science

### ***Department of Chemical & Process Engineering***

Prof Peter Heggs

- Bachelor of Engineering (Hons) in Chemical & Process Engineering

Mr Michael Law

- Bachelor of Engineering (Hons) in Chemical & Process Engineering

### ***Department of Chemistry***

Dr Gabriel Keaveney

- Bachelor of Science in Analytical & Pharmaceutical Chemistry

Dr Cáit Lane

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

Dr Claire Lennon

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

### ***Department of Civil, Structural & Environmental Engineering***

Ms Maria Kyne (O'Shaughnessy)

- Higher Certificate in Engineering in Civil Engineering
- Bachelor of Engineering in Civil Engineering

Mr Frank Maguire

- Solar Domestic Hot Water Systems - L6

Mr John Murphy

- Higher Certificate in Engineering in Civil Engineering
- Bachelor of Engineering in Civil Engineering
- Bachelor of Engineering (Hons) in Structural Engineering
- Common Entry Engineering - L8

Dr Mark Richardson

- Bachelor of Engineering (Hons) in Structural Engineering
- Common Entry Engineering - L8

### ***Department of Computing***

Mr Ken Carroll

- Bachelor of Science (Hons) in Software Development

Dr Kevin Curran

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

Mr Killian Deasy

- Bachelor of Science (Hons) in IT Management
- Higher Certificate in Science in IT Support
- Bachelor of Science in IT Support

Mr Mark Deegan

- MSc in Networking & Security

Mr Peter Given

- Bachelor of Science in Computing
- Higher Certificate in Science in Computing

Ms Deirdre Lawless

- Bachelor of Science (Hons) in Software Development

Ms Anne Meagher

- Information Technology Support
- Bachelor of Science (Hons) in IT Management

Mr Anthony O'Leary

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

Dr James Power

- MSc in Software Development

### ***Department of Construction***

Mr Tim Cahalane

- Bachelor of Science Quantity Surveying
- Bachelor of Science (Hons) Quantity Surveying

Mr Noel Dempsey

- Bachelor of Science Construction Management
- Bachelor of Science (Hons) Construction Management

Mr Gerry O'Rourke

- Bachelor of Science in Construction Management
- Bachelor of Science (Hons) in Construction Management

Mr Paul Quinn

- Bachelor of Science in Construction Economics

Mr Richard Malcom Smith

- Bachelor of Science (Hons) in Quality Assurance

### ***Department of Electrical Engineering***

Mr Gerard Beecher

- Bachelor of Engineering in Electrical Engineering
- Bachelor of Science (Hons) in Electrical Power Systems

Dr Maeve Duffy

- Bachelor of Engineering in Electrical Engineering
- Bachelor of Science (Hons) in Electrical Power Systems

### ***Department of Electronic Engineering***

Dr Andrew Donnellan

- Bachelor of Engineering (Hons) in Electronic Engineering
- Bachelor of Engineering in Electronic Engineering

Dr Seán Foley

- Bachelor of Engineering (Hons) in Electronic Engineering

Mr Paul French

- MEng in Telecommunications Engineering
- MEng in Embedded Systems Engineering

Dr Donal Heffernan

- MEng in Embedded Systems Engineering

Prof Gerard Hurley

- Bachelor of Engineering (Hons) in Electronic Engineering

Dr Seán McGrath

- MEng in Telecommunications Engineering

Dr Paula O'Sullivan

- Bachelor of Engineering in Electronic Engineering

Mr Philip Quinlan

- MEng in Telecommunications Engineering
- MEng in Embedded Systems Engineering

**Department of Manufacturing, Biomedical & Facilities Engineering**

Mr Alan Bateman

- Bachelor of Engineering in Manufacturing Engineering
- Higher Certificate in Maintenance Technology
- Single Subject Module - Mechatronics (L7)
- Certificate in Automation & Control Systems (L7)

Mr Gary Clerkin

- Higher Certificate in Biomedical Engineering
- Bachelor of Engineering in Biomedical Engineering
- Bachelor of Engineering (Hons) in Biomedical Engineering
- Certificate in Product Design (LMA, L8)
- Certificate in Engineering Technology (LMA)

Dr Ben Costelloe

- Higher Certificate in Building Services Engineering
- Bachelor of Engineering in Building Services Engineering

Dr Patrick Delassus

- Mechatronics

Prof David Fitzpatrick

- Bachelor of Engineering (Hons) in Biomedical Engineering
- Bachelor of Engineering in Biomedical Engineering

Mr Neil Kingston

- Bachelor of Science (Hons) in Advanced Manufacturing Technology

Mr Kah Leong

- Single Subject Module - Six Sigma Green Belt (L7)
- Certificate in Lean Six Sigma Black Belt (L8)

Dr Garrett McGuinness

- Higher Certificate in Biomedical Engineering
- Bachelor of Engineering in Biomedical Engineering

Dr Paul O'Dowd

- Single Subject Module - Lean Practitioner (L6)
- Single Subject Module - Lean Practitioner (L7)
- Single Subject Module - Six Sigma Green Belt (L7)

Mr Paul O'Sullivan

- Higher Certificate in Building Services Engineering
- Bachelor of Engineering in Building Services Engineering

Mr Joe Phelan

- Bachelor of Science (Hons) in Advanced Manufacturing Technology

Mr Martin Power

- Single Subject Module - Lean Practitioner (L6)
- Single Subject Module - Lean Practitioner (L7)

**Department of Mathematics**

Dr Pádraig Kirwan

- Module Extern - Maths & Statistics

Mr James Reilly

- Module Extern - Maths & Statistics

Dr Paul Robinson

- Module Extern - Mathematics

**Department of Mechanical Engineering**

Dr Eamonn Ahearne

- Bachelor of Engineering in Mechanical Engineering
- Certificate in Automation & Control Systems (L7)

Mr Alan Bateman

- Higher Certificate in Engineering in Mechanical Engineering
- Bachelor of Engineering in Mechanical Engineering

Prof Robin Clarke

- Bachelor of Engineering (Hons) in Mechanical Engineering

Prof Eugene Coyle

- Bachelor of Engineering (Hons) in Sustainable Energy

Mr John J. Hayes

- Bachelor of Engineering (Hons) in Mechanical Engineering

Mr Neil Kingston

- Bachelor of Science (Hons) in Process Plant Technology

Mr Richard Linger

- Bachelor of Engineering (Hons) in Sustainable Energy
- Certificate in Introduction to Sustainable Engineering (L6)
- Certificate in Sustainable Energy (L7)
- Certificate in Sustainable Energy (LMA)

Mr Joe Phelan

- Bachelor of Science (Hons) in Process Plant Technology

Mr Michael Doheny

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

Mr Robert Guy

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

**CIT CRAWFORD COLLEGE OF ART & DESIGN**

Mr David Ferry

- Bachelor of Arts in Fine Art

Mr Danny McCarthy

- Bachelor of Arts (Hons) in Fine Art

Mr Robert Warren Chapman

- Higher Diploma in Art for Art & Design Teachers

Mr John Meaney

- MA in Art & Design Education
- MA in Teaching Visual Arts in Primary & Early Years Education

Ms Shan Samuel-Thomas

- MA in Art & Design Education
- MA in Teaching Visual Arts in Primary & Early Years Education

Ms Deirdre Ni Argain

- MA in Art Therapy

Mr Mike Fitzgibbon

- Certificate in Arts Participation & Development: (Creative approaches to Global Ed & Action)

Ms Felicity Aylieff

- Bachelor of Arts (Hons) in Ceramic Design
- Bachelor of Arts in Fine Art

Mr Mike Fitzpatrick

- Bachelor of Arts (Hons) in Fine Art

Dr Roisín Kennedy

- Bachelor of Arts in Fine Art

Ms Theresa McKenna

- Bachelor of Arts in Fine Art

Ms Sorcha O'Brien

- Bachelor of Arts in Ceramic Design
- Bachelor of Arts (Hons) in Ceramic Design

Dr Niamh O'Malley

- Bachelor of Arts (Hons) In Fine Art

Mr Leslie Reed

- Bachelor of Arts in Ceramic Design

Prof Terry Shave

- Bachelor of Arts in Fine Art

**Department of Media Communications**

Mr Alan Bennis

- Bachelor of Arts in Design Communications

Dr Francis X. Carty

- MA in Public Relations with New Media

Dr Luigina Cioffi

- Masters of Art in Media Design

Ms Patricia Green

- Bachelor of Arts in Multimedia

Mr Antony Johnston

- Bachelor of Arts in Design Communications

Ms Carmel Maher

- Bachelor of Arts in Visual Communications

Ms Sarah McCann

- Bachelor of Arts (Hons) in Multimedia

Mr Mike Phillips

- MA in Media Design

Mr David Smith

- Bachelor of Arts (Hons) in Visual Communications

Ms Niamh Ward

- Higher Diploma in Arts & Public Relations

Ms Wendy Williams

- Bachelor of Arts in Visual Communications

**CIT CORK SCHOOL OF MUSIC**

Prof Michael Alcorn

- Bachelor of Music (Hons)

Dr John Buckley

- MA in Music (Taught)

Mr Michael D'Arcy

- Bachelor of Music (Hons)

**NATIONAL MARITIME COLLEGE OF IRELAND**

Capt. Shane Begley

- Higher Certificate in Science in Nautical Science

Lt. Cdr. Pat Burke

- Higher Certificate in Naval Leadership & Management (SPA)

Mr Walter Carpenter

- Bachelor of Business Supply Chain & Transport Management

Cmdt. Timothy Daly

- Bachelor of Arts in Leadership, Management & Naval Studies

Dr Matthieu Duchemin

- Bachelor of Science in Nautical Science
- Bachelor of Science (Hons) in Nautical Science

Dr Michael Hartnett

- Bachelor of Engineering in Marine & Plant Engineering

Mr David Lyons

- Certificate in Sea Fisheries Protection & Enforcement

Lt. Cdr. Kenneth Minehane

- Certificate in Sea Fisheries Protection & Enforcement

Mr Patrick Moriarty

- Bachelor of Arts in Leadership, Management & Naval Studies

Mr Michael O'Connor

- Bachelor of Engineering in Marine & Plant Engineering

Cmdt Raymond O'Lehan

- Bachelor of Arts in Leadership, Management & Naval Studies

Capt. Paul O'Regan

- Higher Certificate in Science in Nautical Science

Capt. Michael Purcell

- Bachelor of Science in Nautical Science
- Bachelor of Science (Hons) in Nautical Science

Mr David Taylor

- Bachelor of Engineering in Marine & Plant Engineering

Mr Guus Verhagen

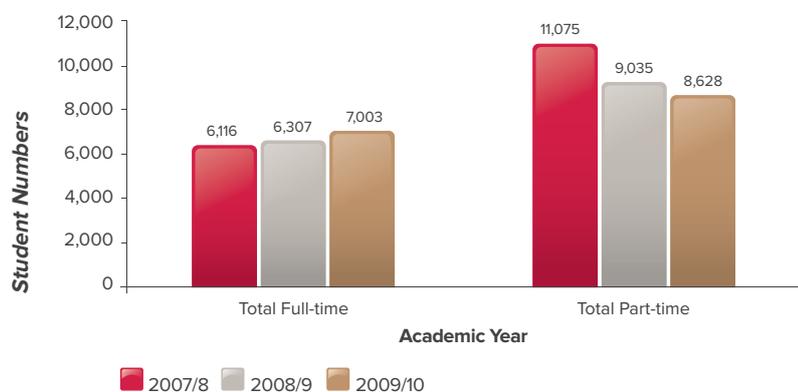
- Bachelor of Science in Nautical Science
- Bachelor of Science (Hons) in Nautical Science

### 3.9 Student Statistics

#### Enrolment Statistics for 2009/10 and the two previous years

	2007/08	2008/09	2009/10
Total Full-time	6,116	6,307	7,003
Total Part-time	<u>11,075</u>	<u>9,035</u>	<u>8,628</u>
<b>OVERALL TOTAL</b>	<b><u>17,191</u></b>	<b><u>15,342</u></b>	<b><u>15,631</u></b>

#### Enrolment Statistics for 2009/10 and the two previous years



#### Enrolments by Gender & Attendance Mode for 2009/10

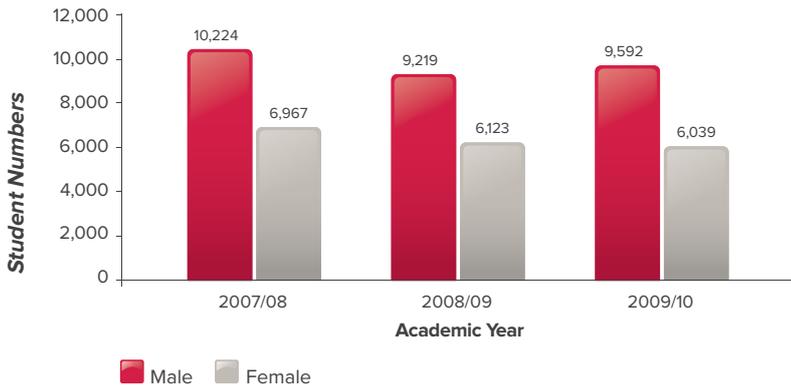
	Male	Female	Total
<b>FULL-TIME</b>			
Non-Mature	3,688	2,134	5,822
Mature	662	519	1,181
<b>TOTAL</b>	<b>4,350</b>	<b>2,653</b>	<b>7,003</b>
<b>PART-TIME</b>			
Fáilte Ireland	118	82	200
Craft Apprentices	1,798	4	1,802
Evening Courses (inc. LMA* figures)	3,326	3,300	6,626
<b>TOTAL</b>	<b>5,242</b>	<b>3,386</b>	<b>8,628</b>
<b>OVERALL TOTAL</b>	<b><u>9,592</u></b>	<b><u>6,039</u></b>	<b><u>15,631</u></b>

\* Labour Market Activation

**Enrolment Statistics by Gender for three academic years**

	<b>2007/08</b>	<b>2008/09</b>	<b>2009/10</b>
Male	10,224	9,219	9,592
Female	6,967	6,123	6,039
<b>Total</b>	<b>17,191</b>	<b>15,342</b>	<b>15,631</b>

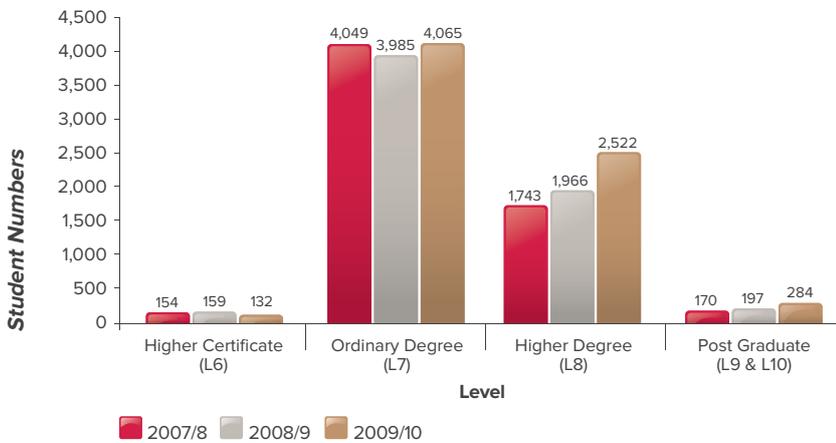
**Enrolment Statistics by Gender for three academic years**



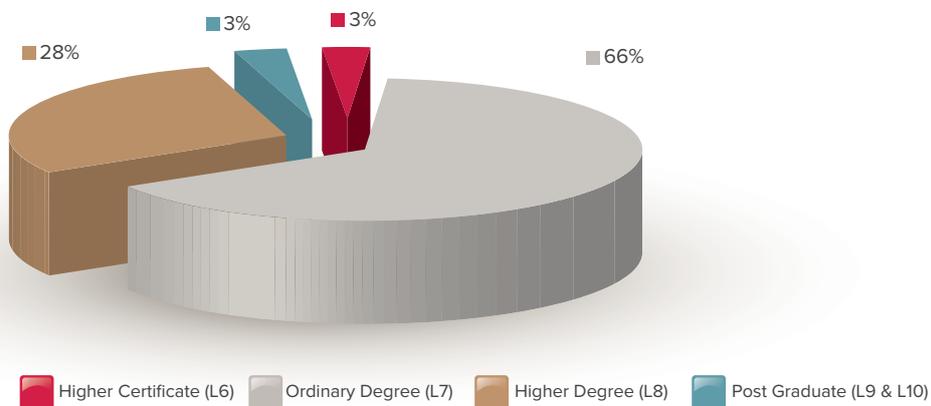
**Analysis of Whole-Time Higher Certificate, Ordinary Degree, Higher Degree and Postgraduate Student Numbers for three Academic Years 2007-2010**

	<b>Higher Certificate (L6)</b>	<b>Ordinary Degree (L7)</b>	<b>Higher Degree (L8)</b>	<b>Post Graduate (L9 &amp; L10)</b>	<b>Totals</b>
2007/08	154	4,049	1,743	170	<b>6,116</b>
2008/09	159	3,985	1,966	197	<b>6,307</b>
2009/10	132	4,065	2,522	284	<b>7,003</b>

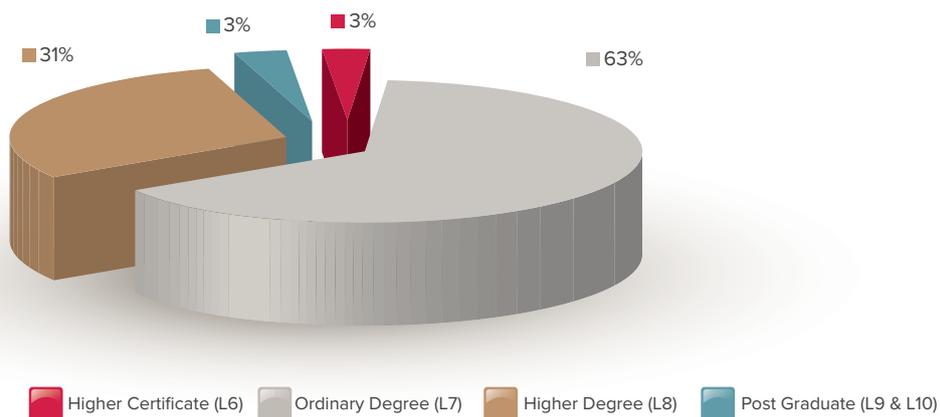
**Whole-Time Student Numbers for three Academic Years 2007-2010**



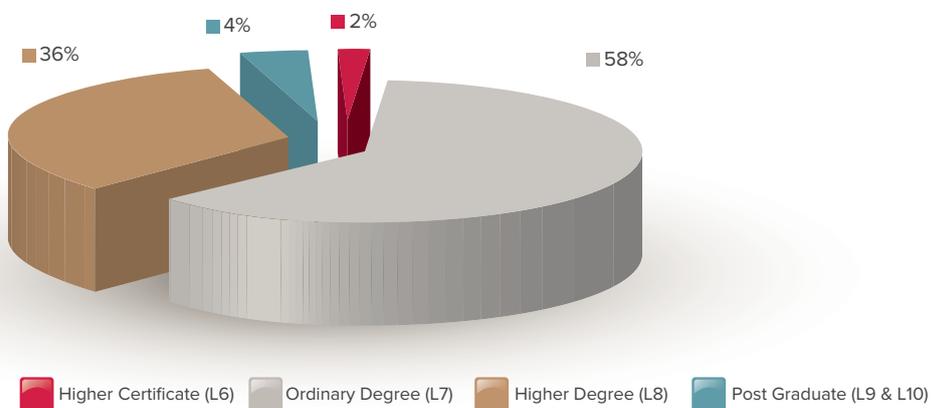
### Whole-Time Third Level Courses 2007/08



### Whole-Time Third Level Courses 2008/09



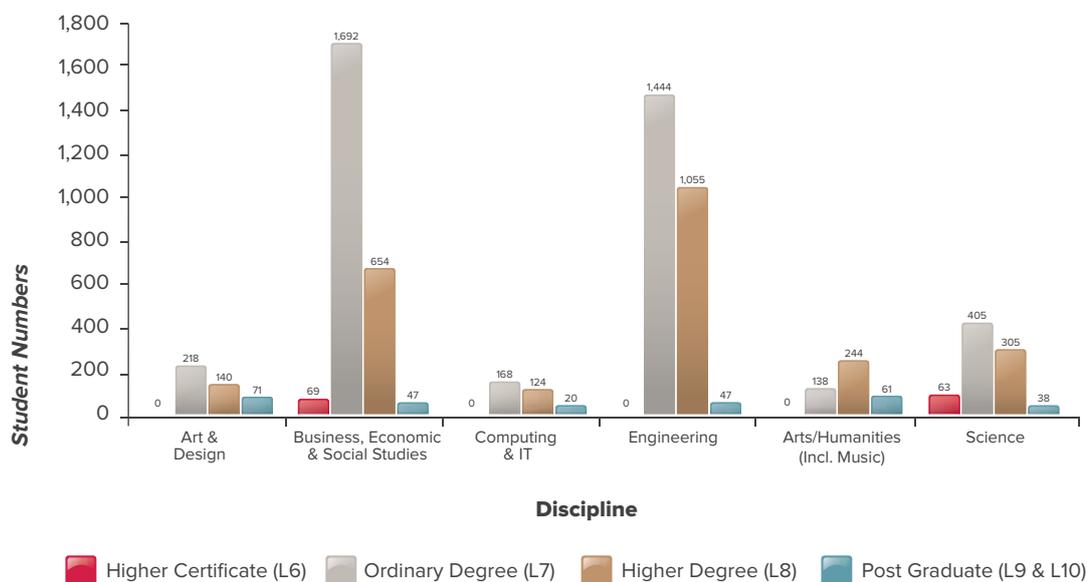
### Whole-Time Third Level Courses 2009/10



**Breakdown of Whole-Time Higher Certificate, Ordinary Degree, Higher Degree & Postgraduate by Discipline for 2009/10**

	<b>Higher Certificate (L6)</b>	<b>Ordinary Degree (L7)</b>	<b>Higher Degree (L8)</b>	<b>Post Graduate (L9 &amp; L10)</b>
Art & Design	0	218	140	71
Business, Economic & Social Studies	69	1,692	654	47
Computing & IT	0	168	124	20
Engineering	0	1,444	1,055	47
Arts/Humanities (incl. Music)	0	138	244	61
Science	63	405	305	38
<b>Total</b>	<b><u>132</u></b>	<b><u>4,065</u></b>	<b><u>2,522</u></b>	<b><u>284</u></b>

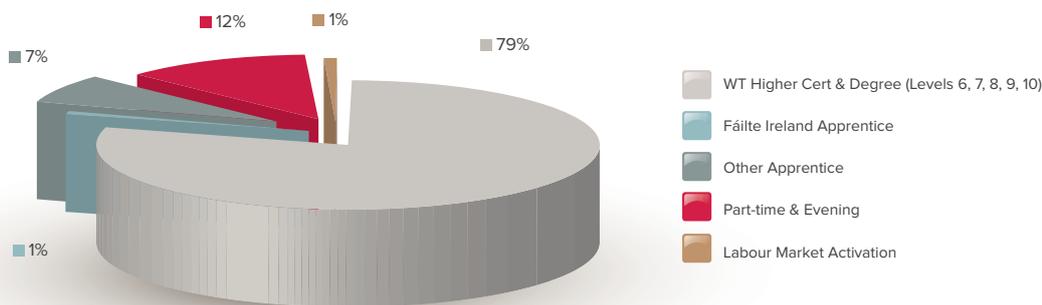
**Breakdown of Whole-Time Higher Certificate, Ordinary Degree, Higher Degree & Postgraduate by Discipline for 2009/10**



### Student Percentage Distribution – Cork Institute of Technology for 2009/10

	Actual	WTE
WT Higher Cert & Degree (Levels 6,7,8,9,10)	7,003	7,003
Fáilte Ireland Apprentice	200	144
Other Apprentice	1,802	601
Part-time & Evening	6,484	1,031
Labour Market Activation	142	63
	<b><u>15,631</u></b>	<b><u>8,842</u></b>

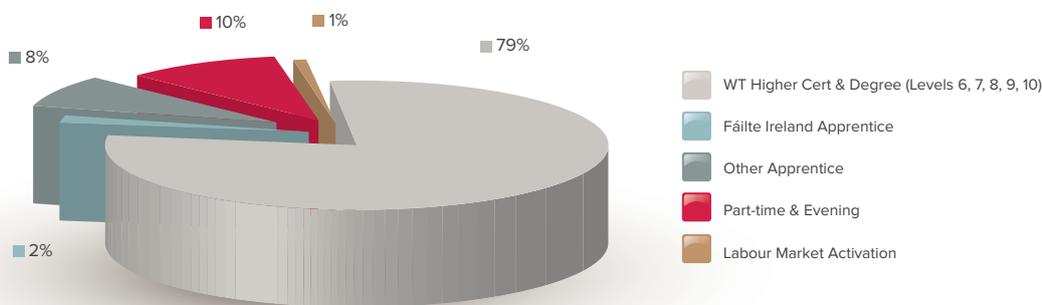
### Student Percentage Distribution – Cork Institute of Technology for 2009/10



### Student Percentage Distribution – Bishopstown Campus for 2009/10

	Actual	WTE
WT Higher Cert & Degree (Levels 6,7,8,9,10)	6,001	6,001
Fáilte Ireland Apprentice	200	144
Other Apprentice	1,802	601
Part-time & Evening	2,760	761
Labour Market Activation	142	63
	<b><u>10,905</u></b>	<b><u>7,570</u></b>

### Student Percentage Distribution – Bishopstown Campus for 2009/10



### 3.10 Student Prizes

1. The first group of graduates on the Taught MBus Programme at the Department of Continuing Education put on an excellent show at the Irish Academy of Management 12th Annual Conference at NUIG on 3 September 2009. A team of six MBus graduates, led by Dr Angela Wright, presented and published their research findings before a large attendance of delegates from around the world.

**Fiona Ryan**, MBus presented on the Entrepreneurship Track

**Peter Daly**, MBus – HRM Track

**Veronica Perdisatt**, MBus – Strategy Track

**Regina Baylor**, MBus – Marketing Track

**Margaret O’Sullivan**, MBus – Strategy Track

**Vicky O’Sullivan**, MBus – Marketing Track

The following students also presented papers:

Postgraduate students – **John Healy, Fergus Murphy, Brian Harmon** and **Barry Griffin** – Marketing Track.

2. In September, eleven Irish competitors travelled to Calgary, Canada to take part in the 2009 Worldskills Competitions in a diverse range of apprenticeships. Ireland amassed three Gold Medals, two Bronze Medals and five Medallions of Excellence from a team of 11 competitors. Five CIT students received the following:

**Barry Dennigan** – Gold Medalist for Carpentry

**Gerald Roche** – Bronze Medalist for Construction Metal Works

**Thomas Sheehy** – Medallion of Excellence – Refrigeration

**David Gough** – Medallion of Excellence – Electrical Installation

**Matthew Keating** – 4th place, Plastering

3. On 13 September 2009, Cork secured their 24th Gala All Ireland Senior Camogie title with victory over Kilkenny and CIT students were well represented on the team.
4. **Gary O’Connor**, postgraduate research student in the Department of Electronic Engineering and the new NIMBUS Centre for Embedded Systems Research won the Bronze Prize and €7,500 at the Intelligent Transport Systems (ITS) World Congress in Stockholm on 24 September 2009.
5. The President presented **Paul Walsh**, a final year Mechanical Engineering student with the Inaugural Abbott Ireland Intern Bursary Award on 6 October 2009.
6. At the Institute of Designers in Ireland (IDI) Annual Awards held on 9 October 2009, 4th year BA (Hons) in Ceramic Design student, **Kevin Callaghan** was awarded the prestigious Frank Ryan Bursary 2009. The award is a travel bursary (worth €5,000) that funds a design student (or students) wishing to pursue an international educational opportunity or a design project overseas. Kevin received the award in recognition of his travels last summer in China, where he took up a residency at the Jingdezhen Pottery Workshop.
7. On 19 October 2009, the Nautilus Bev Minter Award was presented to Arklow native, **James Burnell**, a Nautical Science student at the NMCI. This is the first time that the Award, presented each year to the most worthy cadet who demonstrates determination and positive attitude to succeed in their chosen career, has been made to a cadet studying in Ireland.
8. The 10th Fitter/Turner Awards Ceremony was held at Bishopstown Campus on 22 October 2009. It consisted of awards to a number of apprentices at Phase 4 and Phase 6 in Fitting and also an award to the “Best Employer” at both phases. This is to honour the employers of the overall winners at both levels because they play no small part in selecting and motivating these apprentices.
9. CIT CSM Conferings took place on 2 November 2009. A total of 21 students were conferred with the Bachelor of Music (Honours) and 10 students conferred with the Master of Arts in Music.

10. The Minister for Education and Science, Mr Batt O’Keeffe, T.D., attended the reception and presentation held on 9 November 2009 to mark the achievements of the Irish World Skills Team who finished second in the World at the 40th World Skills Competition in Calgary, Canada. This is the highest result ever achieved by an Irish team since becoming a member over 50 years ago. 950 competitors competed in four days of competition in 48 skill areas. Ireland’s team of 11 competitors achieved great success winning three gold medals, two bronze and five medallions of excellence. Five of the team were from CIT and these students obtained one Gold Medal, one Bronze Medal, a 4th place and two Medallions of Excellence.

**Barry Dennigan** won a gold medal for his skills in Carpentry and **Gerald Roche** won a bronze medal in the Construction Metal Works category. **Matthew Keating** won 4th place in the Plastering category, **Thomas Sheehy** won a Medallion of Excellence for his skills in Refrigeration and **David Gough** won a Medallion of Excellence for his skills in Electrical Installation.

11. On 11 November, the 2009 Teagasc Walsh Fellowships Seminar took place at the RDS, Dublin, as part of Science Week Ireland, and highlighted the achievements of young scientists working in the fields of food, agriculture, environment and economics. This year’s Walsh Fellow of the Year and winner of the RDS medal was **Brid Coffey**, a postgraduate student from CIT and Teagasc, Moorepark Food Research Centre. Brid received her award for her research work and paper on Biocontrol of *Escherichia coli* O157:H7: Evaluation of two anti-Ecoli O157:H7 Bacteriophage in the cattle rumen.
12. The Faculty of Engineering & Science Annual Science Awards Ceremony for 2009 took place in the Tobin Suite, Oriel House Hotel on 11 November 2009.
13. Conferings at CIT Bishopstown Campus:
- (i) Faculty of Engineering & Science and the CIT CCAD Conferings of Degrees and Other Awards took place on 12 November 2009. 1,107 graduands obtained their parchments from the Faculty of Engineering & Science and 137 graduands from CIT CCAD.
- At the 10.00am conferring session the following joint University of Applied Sciences, Darmstadt, HETAC and CIT awards were conferred on students:
- Bachelor of Arts (Honours) in Multimedia and
  - Master of Arts (Media Design)
- (ii) 1,186 graduands obtained their parchments at the Faculty of Business & Humanities Conferings of Degree and Other Awards on 13 November 2009.
14. **Kieran O’Callaghan**, Vision RE™ team, CIT was honoured with the Global Student Entrepreneurship Finalist Award while representing Ireland at the Global Student Entrepreneur Awards Finals which took place at the Ewing Marion Kaufmann Foundation in Kansas City, Missouri, USA from 18 to 20 November 2009. It was the first time an Irish student was short-listed for the global finals and represented a remarkable milestone for both Kieran and CIT. He received the highest acclaim from the distinguished judging panel of international entrepreneurs and was accorded particular mention and praise for the innovative technical expertise and the highly ethical nature of his developing enablement products for the visually impaired.
15. The Faculty of Engineering & Science Annual Engineering Awards Ceremony for 2009 took place in the Tobin Suite, Oriel House Hotel on 26 November 2009.
16. Mechanical Engineering student **William Holland** won second place overall and first undergraduate student project for his submission “Design and Development of an Innovative Sports Footwear Outsole” at the Speak Out for Engineering Awards in Paris on 28 November 2009.
17. The Annual Sport Bursaries and Scholarship Awards took place on 1 December 2009. The Guest Speaker who presented a total of 84 bursaries and scholarships was Ms Olive Loughnane, Silver Medallist at the 2009 World Championships in the 20 km walk. The sports bursaries and scholarships provide valuable assistance to students in their quest for sporting excellence.
18. The annual Faculty of Business & Humanities Prize Giving ceremony took place on 9 February 2010 in the Tourism & Hospitality Building, Bishopstown Campus.
19. The NMCI Conferring of Certificates, Degrees & Special Purpose Awards took place on 19 February 2010. A total of 66 graduands obtained their parchments.

20. A CIT student who invented a potentially life-saving medical device has won a top European Innovation Award, PhD Mechanical Engineering student, **Xiao Fang Zhang** was one of three winners at the European Student Innovation Awards, Innovact, announced in France on 2 March 2010. Xiao was part of the Med-Ware™ team, including **Peter Sullivan, Michelle Bouse** and **Carmel Linehan**, Bachelor of Business Studies in Information Systems and were among 28 shortlisted for the Innovact finals.
21. **Caoilfhionn Ní Choileáin** was winner of the Junior Under 16 Classical Guitar competition at Feis Ceoil, Dublin on 18 March 2010. Caoilfhionn was previously a winner of the Junior Under 12 Classical Guitar competition in 2007. She is a pupil of the CIT CSM.
22. The CIT Prize for Innovation Showcase and Awards Ceremony took place in the Student Centre on 19 March 2010. "Entrepreneurs" showcased their businesses during the CIT Prize for Innovation exhibition where a total of €10,000 was awarded to the winning entries. The Cork County and City Enterprise Boards sponsored the competition. There was an additional element to the CIT Prize for Innovation – second-level students from a number of schools around the city and county participated in the exhibition and presented their businesses under the Cork Schools Enterprise Programme. The adjudicators were very impressed with the quality of the work that was evidenced from the business plans and display stands. The judges found it difficult to come to a decision on the winners and felt that everyone who participated showed elements of enthusiasm and creativity that are required to start a business. The prize winners were:

**1st Prize and coveted title of CIT Entrepreneur(s) of the Year - €4,000**

Business Name: Hydrostack  
 Department: Mechanical Engineering  
 Student Name: **Laurence Barry**  
 Supervisor: Richard Guinee

**Most Technically Innovative - €2,000**

Business Name: Tip Top  
 Department: Mechanical Engineering  
 Student Names: **Daniel Henderson, Jonathon Howley, Ronan O'Donoghue** and **Aidan Vaughan**  
 Supervisor: Michael J. O'Mahony

**Best Business Plan - €1,000**

Business Name: Keep Me Close  
 Department(s): Electronic Engineering and Business Studies  
 Student Names: **Colm Harrington, Juan F. Martiez, Allannah Bates** and **Barry Cashman**  
 Supervisor: Finbarr Sheehan

**Best Presentation Pitch - €1,000**

Business Name: Mobalift  
 Department: Mechanical Engineering  
 Student Name: **Sarah Lindsey**  
 Supervisor: Seán F. O'Leary

**Most Emerging Space Award (instead of postgrad award)**

Business Name: NMODL  
 Department: Computing and Business Studies  
 Student Names: **James O'Sullivan, John Twohig** and **Kathryn Burguin**  
 Supervisor: Finbarr Sheehan

**Best Exhibition Stand - €1,000**

Business Name: EzBaR  
 Department: Mechanical Engineering  
 Student Names: **Barry McKenna, Damien O'Flynn, Rian Edman** and **Conor Kevin Maguire**  
 Supervisor: Seán F. O'Leary

23. The CIT Ladies Football Club won out a thriller in DCU on 20 March 2010 against AIT in the H.E.C. Lynch Shield Final after a penalty shoot out – CIT 3 and AIT 2. **Gillian O'Brien**, 1st year Recreation and Leisure and current CIT Bursary recipient was awarded player of the match for her outstanding display at mid-field.

24. The 2010 CIT Student Societies & Activities Awards Ceremony took place on 22 March 2010. The Guest Speaker for the event was John O'Shea, founder and CEO of GOAL who spoke about the work of GOAL and other Humanitarian Agencies throughout the world. A total of eleven Awards were presented – six individual Awards and five Group Awards and are listed as follows:

<b>Award</b>	<b>Recipient</b>
Society of the Year	International Students Society
Best New Society	Urban Art Society
Most Improved Society	LGBT Society
Best Event	Photographic Society – “Vertical”
Best Course-Based Society	Business & Accounting Society

Supreme Achievement in Society & College-wide Activities

**Brien Mullins** – 3rd year Computing

Individual Award

<b>Karen Buckley</b>	-	2nd year Business Studies
<b>Ciara O'Flynn</b>	-	2nd year Fine Art
<b>Richard Crowley</b>	-	2nd year Business Studies
<b>Brian Westfall</b>	-	3rd year Business Studies
<b>Jennifer Cotter</b>	-	4th year Social Care

25. On 24 March 2010, at Limerick Institute of Technology, the winners from CIT's Eurostar Song Competition competed against other Institutes of Technology in the National IT Factor Song Competition. This competition comprised of two categories – original and cover. Two students, **Kate Curran**, 4th year CIT CSM and **Pierce Lenihan**, 3rd year Automobile Technology did CIT proud. Pierce won 1st prize in the original section.
26. **Clíodhna Sargent**, a CIT student was named Evening Echo Ladies Sports Star of the Month on 13 April 2010 at a reception in Rochestown Park Hotel. She will represent Ireland in Hockey at the upcoming World Qualifiers in Chile.
27. The CIT Innovative Student Engineer of the Year (Level 7 and Level 8) 2010 took place on 20 April 2010. Following an informative and entertaining evening of project presentation and displays, the adjudication panel announced the following results:

**First Place and CIT Innovative Student Engineer of the Year 2010 (Level 7)**

Student Name:	<b>Jack Bermingham</b>
Title:	Wave Energy Research and Development in Ireland
Industrial Partner:	Research and Development
Supervisor:	Mr Tom O'Connell

**Second Place Finalist**

Student Name:	<b>John Caplice, David Irwin and Ciaran Connolly</b>
Title:	Sheet Lifting Station
Industrial Partner:	Spirofeed Ltd
Supervisor:	Mr Bernard O'Callaghan

**Third Place Finalist**

Student Name:	<b>Seán Lordan</b>
Title:	Evaluate the use of a Wind Turbine and a Solar Panel to Produce a Power Supply
Industrial Partner:	Research and Development
Supervisor:	Mr Fergus O'Reilly

**First Place and CIT Innovative Student Engineer of the Year 2010 (Level 8)**

Student Name:	<b>David Kelleher</b>
Title:	Development of a 3D Teat Sensing System
Industrial Partner:	Teagasc
Supervisor:	Dr Michael J. O'Mahony

**Second Place Finalist**

Student Name:	<b>Laurence Barry</b>
Title:	Design and Development of an Innovative Domestic Chimney Heat Recovery Product
Industrial Partner:	Research and Development
Supervisor:	Dr Richard Guinee

**Joint Third Place Finalists**

Student Name: **Graham Doyle**  
 Title: Small Scale Waste Water Treatment Plants  
 Industrial Partner: Research and Development  
 Supervisor: Mr Leonard O'Driscoll

Student Name: **Brian Connolly**  
 Title: The Civil and Structural Design of Wind Farms  
 Industrial Partner: Research and Development  
 Supervisor: Mr Donogh Coleman

28. The Institute Prizegiving Ceremony took place in the Council Room, Administration Building on 26 April 2010. This annual presentation of prizes honoured the outstanding graduates of 2009. The following students were presented with prizes:

- **Pauline Frizelle** - Best Taught Masters Degree Student - MA in Music Performance - CIT Cork School of Music
- **Conor Palliser** - Best Honours Degree Student - B Music - CIT Cork School of Music
- **Michelle Gunning** - Best Taught Masters Degree Student - MA in Art Therapy - CIT Crawford College of Art & Design
- **Claire Marie Hurley** - Best Bachelor Degree Student - BA in Fine Art - CIT Crawford College of Art & Design
- **William Lawlor** - HETAC Award for Outstanding Student in Art & Design in BA (Hons) in Fine Art - CIT Crawford College of Art & Design
- **William Lawlor** - Best Honours Degree Student - BA (Hons) in Fine Art - CIT Crawford College of Art & Design
- **Aoife Murphy** - Marshall Hutson Award - Best Art Education Student - Diploma in Art & Design Education - CIT Crawford College of Art & Design
- **Patrick Hourigan** - Best Overall Student - MSc in Software Development - Cork Institute of Technology
- **James Barrett** - Best Taught Masters Degree Student - MBus - Faculty of Business & Humanities
- **Marcus Flynn** - Best Taught Masters Degree Student - MBus - Faculty of Business & Humanities
- **Karen Hogan** - Best Honours Degree Student - BA (Hons) in Community Education & Development - Faculty of Business & Humanities
- **Ana Santos** - Best Bachelor Degree Student - BA in Human Resource Management - Faculty of Business & Humanities
- **John Ahern** - Best Bachelor Degree Student - BEng in Electrical Engineering - Faculty of Engineering
- **Donal Caples** - Best Honours Degree Student - BSc (Hons) in Electrical Power Systems - Faculty of Engineering
- **Patrick Hourigan** - Best Taught Masters Degree Student - MSc in Software Development - Faculty of Science
- **Donal Kennedy** - Best Bachelor Degree Student - BSc in Applied Physics & Instrumentation - Faculty of Science
- **Michael Edward McCarthy** - Best Honours Degree Student - BSc (Hons) in Applied Physics & Instrumentation - Faculty of Science
- **Peter Michael Cahill** - Best Bachelor Degree Student - BEng in Marine Plant Engineering - National Maritime College of Ireland
- **John Dawson** - Best Honours Degree Student - BSc (Hons) in Nautical Science - National Maritime College of Ireland

29. The Annual Institute Sports Awards 2010 took place on 11 May 2010 in the Tourism & Hospitality Building. The following awards were presented on the day:

**Individual Awards**

- **Cathal Owens** - Award for Athletics - 1st Year Mechanical Engineering
- **Gillian O'Brien** - Award for Ladies Football - 1st Year Recreation & Leisure
- **Ronan Kinane** - Award for Racquetball - 2nd Year Building Services Engineering
- **Ann-Marie Ryan** - Award for Camogie - 4th Year Construction Management
- **Ken Murphy** - Award for Soccer - EPS 4th Year
- **Paul Sutton** - Award for Rockclimbing - 2nd Year Electrical Engineering
- **Ursula Day** - Award for Ladies Football - Masters in Business Studies
- **Billy Allen** - Award for Karting - 3rd Year Civil Engineering
- **Ross Mc Bride** - Award for Tae Kwon Do - 4th Year Business Studies

**Fresher of the Year Award**

- **Ciaran Sheehan** - Award for Gaelic Football - 1st Year Recreation and Leisure

**Club of the Year Runners Up**

The **Ladies Football** Club

**Club of the Year Award**

The **Athletics** Club

**Special Achievement Awards**

Presented to nine students who are in their final year in CIT and who have each excelled at either international or senior intercounty level.

- **Clíodhna Sargent** - Irish Senior Hockey player
- **Mark O'Donovan** – Irish Rower
- **Julie McGrath** - Tipperary Senior Camogie player
- **Daniel Goulding** - Cork Senior Footballer
- **Paul Kerrigan** - Cork Senior Footballer
- **Ray Carey** - Cork Senior Footballer
- **Colm O'Neill** - Cork Senior Footballer
- **Paul O'Flynn** - Cork Senior Footballer
- **Cathal Naughton** - Cork Senior Hurler

30. The President presented the Venice Biennale Award to best graduating student, **Patrick F Shier** at the opening of the CCAE Exhibition and Prize-Giving Ceremony on 28 May 2010.
31. CIT students were honoured by receiving awards at the Enterprise Ireland/Invest Northern Ireland Student Enterprise Awards 2010 from the Minister for Trade and Commerce, Mr Billy Kelleher, T.D., on 3 June 2010. The student submissions were short-listed to 15 from over 350 submissions. The Teams were:

**Second Place Student Enterprise Awards – Mobilis**

Comprising of **Myles Murray, Gavin O'Sullivan** and **Mark Keane** who undertook the development of an Intravenous Infusion System designed to optimise patient mobility.

**Enterprise Ireland/Invest Northern Ireland Award of Merit – Tip Top Cue Tip**

Comprising of **Jonathan Howley, Daniel Henderson, Aidan Vaughan** and **Ronan O'Donoghue** who are developing a chalk-free Snooker and Pool Cue Tip.

32. The NMCI Conferring of Degrees took place on 17 June 2010. A total of 43 graduands obtained their parchments.
33. The 2010 International Medical Engineering Student Award Winners were announced on 24 June 2010 in Westminster, London and students **David Kelleher** and **Ciara McKenna** from CIT scooped three of the top four awards, including overall first.

In the International Medical Engineering Competition – Overall Prize for Best Published and Presented Project  
First Place went to **David Kelleher** for the Development of Bovine Teat 3D Sensing system for Disinfection Purposes, under the supervision of Dr Michael J. O'Mahony.

In the International Medical Engineering Competition – Best Project involving the Design / Development of a Medical Device  
First Place again went to **David Kelleher**, while the Second Place Finalist was **Ciara McKenna** for the Evaluation of the pullout strength of orthopaedic screws in a developing novel bone cement. Her supervisor was Dr Hugh O'Donnell.

Following shortlisting from a large international entry, each project in the International Medical Engineering Student Awards undergoes an exhaustive process of submission investigation, prototype presentation, demonstration and exhibition before a distinguished adjudication panel of internationally renowned Medical Engineering Industrialists and Professors.

34. The Award Ceremony for National Skills Competitions 2010 took place in the Student Centre on 25 June 2010. It was attended by the Lord Mayor, Cllr Michael O'Connell and the Minister for Enterprise, Trade & Innovation, Mr Batt O'Keefe, T.D.

The competitors are master craft persons and the country's best in 9 skills areas:- Electrical Installations, Industrial Control, Construction Plant Fitting, Metal Fabrication, Plasterwork, Carpentry, Joinery, Welding, and Refrigeration. All finalists have already won preliminary competitions in the various Institutes of Technology around the country.

# 4. Research & Development

Cork Institute of Technology

- 4.1. Development Activities
- 4.2. Research Activities
- 4.3. External Development Links
- 4.4. Campus Development
- 4.5. Safety & Facilities Management

## 4.1 Development Activities

CIT is committed to assisting entrepreneurs and new business start-ups and also provides supports and opportunities to existing companies to progress their companies to the next level. In addition to the Rubicon Centre, the Institute runs a number of programmes and courses to help entrepreneurs at different stages of company development.

### Rubicon Centre

The 900 sq. metre extension to the Rubicon Centre began in September 2009 and was completed by June 2010. The extension added an additional 70 “seats” to the Rubicon, increasing the total incubation space on campus to 2,100 sq. metres. The first clients of the new extension moved into the Centre in July 2010. This expansion enlarges the footprint of business incubation and innovation on the CIT Bishopstown Campus and sends a clear message to staff and students that entrepreneurship is an important activity which is worth participating in and supporting. The opening of the NIMBUS Research Centre, which is adjacent to the Rubicon, has allowed for greater interaction between the entrepreneurs and the research community. Many of the Rubicon companies engaging with CIT avail of the Enterprise Ireland Innovation Voucher programme.

As a result of the extension the Rubicon Centre can now accommodate 220 people, equating to roughly 55 companies. At the end of August, the occupancy was 45 companies. The Rubicon Centre hosts the largest concentration of start-up companies on the island of Ireland.

In October 2009, the Rubicon Centre Manager along with Cork County Council facilitated a number of companies to go on a trade mission to Chicago. Cork County is twinned with Cook County in Chicago. As a result of this visit, one of the Rubicon companies opened an office in an incubator in Cook County and has a successful US operation from its base there.

CIT had a number of prominent visitors to the Rubicon over the year. These included:

1. Mr Batt O’ Keefe T.D., Minister for Enterprise, Trade and Innovation
2. Mr Billy Kelleher T.D., Minister for Trade and Commerce
3. Mr Frank Ryan, CEO of Enterprise Ireland
4. Mr Brian Crowley, MEP

All were briefed on the wide range of CIT activities in the area of innovation and enterprise support.

In April 2010, AIB agreed to provide a donation towards the capital cost of the Rubicon Extension. As part of the agreement, AIB also agreed to sponsor the Genesis Programme Awards for a five year period.

Almost 40% of the companies based in the Rubicon Centre have direct links with CIT. These links include joint research, placement students, student projects or use of college resources.

### Genesis Enterprise Programme

This programme has been running since 1997 and to date 180 entrepreneurs have been supported by the programme. The programme has a significant impact in the Cork area in terms of business start-ups. In turn, many of the Genesis “graduate” companies have gone on to hire CIT graduates, they are a regular source of placements for CIT students and many have collaborative and contract research projects with CIT. Third party recognition of the work of Genesis validates the efforts of CIT and its partners on the programme. Genesis companies consistently perform well in national competitions and this year’s winners include:

- Ferfics (2008/2009 Genesis Programme) triumphed in the finals of the All-Island Seedcorn Competition securing a prize fund of €25,000 and winning the prestigious prize for Best High Growth Company in Munster;
- Radisens (2008/2009 Genesis Programme) were recognised as the most investable start-up among the European companies that pitched to the “Going International” seed investment conference. Radisens was also a finalist in InterTrade Ireland’s 2009 Seedcorn Competition;
- Treemetrics (2004/2005 Genesis Programme) were the overall winner at the IBM Smartcamp and received a mentorship from IBM to help them build an investor ready business plan.

In March, Mr Micheál Martin T.D., Minister for Foreign Affairs, officiated at the Genesis Enterprise Programme Awards and Showcase. The awards ceremony marks the end of the participants’ year on the programme and the 17 participants came from a range of sectors including energy, food, electronics, telecommunications and furniture design.

Mr Pat Ryan of Abtran (1998/1999 Genesis Programme) was awarded the 2010 Genesis Alumni Award. The Award is presented annually to an alumnus of the Genesis Programme who has made substantial achievements in their commercial field or has contributed in a significant way to the economic development of knowledge based businesses in the region.

In May, Mr Billy Kelleher, T.D., Minister for Trade and Commerce officially launched the 2010/2011 programme.

The Genesis Programme was shortlisted for the EU's European Enterprise Award 2010. The Genesis programme represented Ireland and fought off competition from more than 330 projects from 28 countries to become one of the 12 short-listed nominees for the award. The awards recognises and rewards excellence among public bodies in promoting entrepreneurship and small business at national, regional and local levels. While not winning the award, the Genesis Programme was runner-up and highly commended for promoting the entrepreneurial spirit.

### Enterprise Start

CIT continued to run the Enterprise Start programme which was part-funded by Enterprise Ireland. Enterprise Start 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. This programme is also used in company closure situations and a number of programmes have been completed where multi-national companies are faced with reducing their headcount. An Enterprise Start programme was run in Harris Semiconductor during the year.

### Discovery Zone

In early 2010, the Rubicon Centre designed and delivered a new programme called *Discovery Zone*. The 12-week programme was aimed at individuals who had a number of years senior management experience in a multinational environment and who had recently become unemployed. All participants wanted to start a new business but not all had an idea for a business. As individuals and as teams, the participants were given tools to help them spot and evaluate opportunities and they presented their ideas for evaluation at the end of the programme. Two of the participants have transferred over to the Genesis Enterprise Programme. The programme was funded by CIT, Enterprise Ireland, and the Cork County Council. It is hoped to run this programme again in 2011.

### Solas Network

Over the years, approximately 350 participants attended one of the CIT programmes for start-up companies, i.e. Genesis, Enterprise Start or Discovery. CIT believed there was a need to form some kind of Network or Cluster to ensure that CIT could continue to engage and support these past participants. Solas Network was formed which facilitates sessions for the participants whereby they can agree a common problem/concern/opportunity and they can then come together to discuss the issue. If an external trainer or facilitator is required, Solas provides this.

### Innovation and Technology Transfer

As part of the implementation of CIT's Knowledge Transfer Strategy (Part of CIT Research Strategy 2011) and to support the increased interaction with industry, the Industry Liaison Office put in place a dedicated technology transfer resource. The increase in the level and types of engagement with companies undertaken by the three Applied Research Enhancement Centres (TEC, CAPPA & MEDIC) also indicated that a full time resource was required.

During the 2009/2010 Academic Year, the following technology transfer activity was achieved:

- Licences, Options 1
- Invention Disclosures 11
- Patents 5

In addition, an agreement was signed with DIT that could lead to a licence. DIT led a project, IMMAS which was funded under Enterprise Ireland's Technology Development fund. There were four components to a software system and CIT developed one part of the system. One of the DIT components has been licensed and there is still potential that all four components will be required by other users of the system.

A new Intellectual Property (IP) Policy was drafted and is awaiting final approval before becoming policy. A number of specialised training courses were held during the year for the research community to increase their awareness of IP. They were shown how to protect IP and the options for exploiting and commercialising IP.

### CIT Prize for Innovation 2010

The CIT Prize for Innovation took place in the Student Centre on 19 March with a keynote address from Mr Conor Buckley, who was named Cork Person of the Year for 2009.

“Entrepreneurs” (14 teams with over 44 students involved) showcased their businesses during the exhibition and a total prize fund of €10,000 was awarded to the winning entries. The Cork County and City Enterprise Boards sponsored the competition and in addition to the cash prizes a perpetual cup is on display in the Department of Mechanical Engineering.

The Institute also hosted the Cork Schools Enterprise Programme to coincide with its “Prize for Innovation”. The Cork Schools Enterprise Programme aims to educate second-level students about the realities of setting up and running a business.

### Student Awards 2010

The winners from the CIT Prize for Innovation were entered into the All Ireland Student Awards, offering third-level students across Ireland the chance to compete for the coveted title of College Entrepreneurs of Year and win a share in the prize fund of €50,000. CIT has an excellent track record in this competition, taking the overall prize in 2004, winning the Cruickshank & Co Technology Innovation Award in 2005, taking a College Award in 2006, winning the overall prize in 2007, winning the Cruickshank Technology Innovation Award in 2008 and taking 2nd place in 2010.

In the 2010 All Ireland Student Awards, CIT won the following awards:

- Second Prize with a prize fund of €6,500 was awarded to Mobilis
- An Award of Merit worth €4,000 was presented to Tip Top Cue Tips.

### Strategic Innovation Fund Projects

CIT leads two major projects funded under the HEA's Strategic Innovation Fund, the SIF Cycle 1 *Education in Employment* project and the SIF Cycle 2 *Roadmap for Employer-Academic Partnership* (REAP) project. Both projects continue to develop and expand the partnership engagement between employers and Higher Education Institutions (HEIs). The full consortium involves two Universities and nine Institutes of Technology. During this year, the Education in Employment project continued its work on the dissemination of its findings and the continued development of capability and capacity in Work-based Learning and Recognition of Prior Learning (RPL) particularly. This work included:

- Paper on WBL presented at the Irish Academy of Management in September 2009;
- Presentation to the Framework Implementation Network (FIN) group of the Irish University Association (IUA) on the implementation of RPL in practice – based on the findings and the report of the EIE project in Dublin on 24 February 2010;
- Partner in Workshop in Brussels on RPL with the QAA and the Scottish Government;
- Collaborative participation with CIT, NUIG, and AIT in a meeting on RPL implementation at the request of the NQAI at NQAI Offices on 22 March 2010;
- Development of report based on research into Work-based learning in the Hospitality, Tourism and Leisure sector by AIT in partnership with local enterprises – available on the [www.eine.ie](http://www.eine.ie) website;
- Continuing Staff Development Sessions in partner institutions on RPL Policy and Practice;
- Presentation to third level staff of the Shannon Consortium and Guidance Counsellors on RPL and Lifelong Learning in the UL Downtown Centre on 22 April 2010;
- Publication of 2009 Symposium Handbook including all of the contributions at the 2009 Work-based Learning Symposium;
- Third Annual Work-Based Learning Symposium in DIT on 5 May 2010;
- Presentation to Cork Chamber of Commerce on the REAP/EIE project objectives in Cork on 8 March;
- Meeting with Minister for Integration, Ms Mary White T.D., and the presentation of report on Migrants in Higher Education to the Minister in NASC, Cork on 14 May 2010;
- Presentation on Migrants in Education in Limerick at request of *Doras Luimní* on 21 May 2010.

In the mid-term review of the Strategic Innovation Fund Projects, the CIT-led Education in Employment project was given the best possible rating. Dr Davies commented:

*“Good use of limited resources, including internal allocation of funds to reflect activity of partners, rather than preset levels. Practical outputs. Targets and objectives met under-budget and ahead of schedule; sustainability plan in place. This project is vital in today’s economic climate.”*

On completion of the Education in Employment objectives, the project was integrated into the CIT-led Cycle 2 project Roadmap for Employment-Academic Partnership (REAP). The main aims of the REAP project are in the exploration of the potential of the full range of partnership engagement, through workplace learning needs analysis, review of partnership models, development of specialist courses, exchanges of staff between HEIs and workplaces and the development of professional postgraduate pathways. A collaborative report on the Learning Needs of selected sectors has been published and work is underway on a report on the Cooperative Placement of undergraduate students which will include a set of good practice guidelines for learners, employers and HEIs. During this year the REAP project work included:

- Facilitation of a variety of Industry showcase and partnership events in the partner institutions;
- Support for the Discovery Zone programme in the Rubicon Centre, designed to assist experienced professionals who want to develop new ideas, start a business or want to explore ways of using their skills in exploiting other commercial opportunities through partnership with other entrepreneurs or academic institutions;
- Research into good practice in work placement in third-level programmes collating the views of HEIs, employers and students;
- Major Forum on Placement programmes in Irish HEIs – in UCC on 15 April - attended by over 70 attendees from more than 14 HEIs;
- Establishment of an on-line forum for placement available at <https://listserv.heanet.ie/placement-l.html> allowing those involved in placement to share concerns and ideas;
- Development, customization and integration with Moodle of DiaryPro software for planning, management, evidence posting of experiential learning outcomes for placement - ITT;
- Collaboration with Forfás, IBEC and the Expert Group on Future Skills needs on the work placement activity and the Recognition of Prior Learning;
- Facilitation, through the provision of WBL and RPL support, of partnership negotiations on specialist computing programme between EMC and CIT;
- Support of and collation of information on a variety of specialist targeted course developments throughout the partner institutions;
- Continued collaboration with the WIT-led KTC project on Professional Postgraduate pathways and development of a discussion document to further the discourse;
- Presentation on REAP and EIE at the Cork VEC Lifelong Learning Forum at Department of Education Offices Cork on 21 April 2010;
- Presentation and Workshop lead by REAP team as part of the EU University-Business Forum in Brussels on 4 and 5 May 2010;
- Development and circulation of a project newsletter – available at [www.reap.ie](http://www.reap.ie);
- Presentation of two papers at the conference in Amsterdam in June 2010 'The Power of Lifelong Learning';
- Planning underway on major conference on the third mission of the Higher Education sector planned for Farnleigh House in September.

In the mid-term review of the SIF projects the REAP project attained the highest rating for a Cycle 2 project. In his report Dr Davies stated:

*“Outcomes to date are good and may be adopted by other institutions over time. Project is especially relevant in current economy.”*

## **Industry Support and Course Development**

### ***Bioconference***

In November, CIT in conjunction with Cork County Council and UCC, sponsored a one-day conference titled: *“The Changing Face of the Pharmaceutical Industry”*. The conference described and discussed the imminent changes in the Pharma and Biopharma industries globally. There was an international line-up of speakers and over 100 participants attended the event. IDA Ireland and other relevant agencies also contributed to the proceedings.

### ***Maritime & Energy Research Campus and Commercial Cluster (MERC<sup>3</sup>)***

A Memorandum of Agreement was signed between CIT (including NMCI), UCC and the Irish Naval Service in March 2010. MERC<sup>3</sup> will promote cooperation that will be of mutual benefit for the respective institutions and to the national economy through the development of the Maritime and Energy Research Campus and Commercial Cluster which will be centred on a campus adjacent to the NMCI site at Ringaskiddy.

## 4.2 Research Activities

### Research and Development Activity – General

In the academic year 2009/10, Institute researchers won approximately €16m in externally-funded research awards. In July 2010, CIT was awarded €3.889m as part of the Programme for Research in Third Level Institutions (PRTL I – Cycle V). In March 2010, CIT occupied the new NIMBUS Centre for Research in Embedded Networked Systems (funded under PRTL I – Cycle IV).

CIT researchers published approximately 180 conference papers, and 80 peer-reviewed journal papers; continued their strong engagement with industry, being involved with over 200 companies in R&D projects; and completed over 400 undergraduate projects with industrial partners.

### PRTL I V

Under PRTL I V, CIT was successful in three of its four applications announced by the HEA on 16 July 2010, as shown in the table below:

Title	Funding Awarded	Project Description
Centre for Research in Advanced Therapeutic Engineering ( <b>CREATE</b> )	€3,297,000	1400 m <sup>2</sup> research building
<b>Ed4Life</b>	€293,000	Structured PhD in lifescience (CIT lead)
<b>INSPIRE</b>	€299,000	Structured PhD in nanoscience (CIT partner)

### CREATE Research Building

As reported in the Annual Report for 2008/09, the concept of the **Centre for Research in Advanced Therapeutic Engineering** 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 newly approved building will be constructed at the end of C-block, will be two-storeys in height and the gross floor area is expected to be 1400 m<sup>2</sup>.

*CREATE*'s three complementary research strands come from two of CIT's Strategic Research Clusters (SRC's) and provide convergence on translational health research across the spectrum from patient care to product development. **Bio-molecule discovery** involves peptide analysis & engineering including bio-informatics & molecular diagnostics, focusing on therapeutic applications in infectious disease, gut health and cancer. **Biomedical engineering** concentrates on implant technology platforms, including SMART surgical devices, post-operative rehabilitation and biomaterials for *in-vivo* therapy and regeneration, partnering with clinicians and industry. **Advanced imaging** focuses on developing new devices for optical imaging applications in biomedical and process analysis in partnership with industry and academia.

*CREATE* has targeted a number of areas which have been identified as critical to the development of our national R&D capacity, such as "basic biomedical sciences, information technology, bioengineering and drug development" and, as a consequence will directly support and provide specialists for these sectors in which R&D growth has been prioritised. It will play an important role in supporting and enhancing key regional industries, specifically the bio-pharma and bio-medical device industries which rely on innovative ideas and highly skilled graduates. Through a carefully planned and managed programme of access to the facility by HEIs and industry, *CREATE* will help to strengthen the R&D capacity in the region and nationally.

CIT researchers can already benefit from the "CREATE ADVANTAGE" in which applications for funding or collaborations with industry gain the added value of having ready access to multidisciplinary laboratories and experts across a number of disciplines. When all of the *CREATE* teams are co-located in the new building, the synergies generated are expected to result in enhanced research and innovation outputs.

## Ed4Life and INSPIRE Structured PhD Programmes

**Ed4Life** (Education for LifeSciences) is a structured PhD programme in the lifesciences led by CIT, with collaborators in UCC and Teagasc, Moorepark. The project will provide a student-centric curriculum that supports the existing and future research student cohorts, empowering them to engage in lifelong learning and contribute significantly to a Fourth Level Ireland. It is anticipated that this programme will impact significantly on education, training and employability but will also lead to:

- Increase in research metrics: funding, papers, staff, patents, etc. in-line with CIT's research strategy;
- Sustain and develop further industrial interaction and collaboration which will be especially relevant for the biomedical device and bio-pharmaceutical industries;
- Potential to generate and stimulate jobs and economic and regional outputs.

The Photonics SRC received €299k in funding as part of the National Graduate Education Programme in Nanoscience and Nanotechnology. The other partners in this €3.4m programme are University College Cork/Tyndall National Institute, Dublin City University, Dublin Institute of Technology, National University of Ireland Galway and University of Limerick. This graduate programme builds on the successful PRTL4-funded Integrated NanoScience Platform for Ireland (INSPIRE) collaboration.

CIT is also a collaborator in other graduate training programmes including:

- (i) the Research Alliance;
- (ii) Translating Biosciences into Health (BSI West);
- (iii) Environment and Climate Change Graduate Programme.

## PRTL4 IV – NIMBUS Research Building Occupied by Researchers

On 17 January 2010, CIT formally took possession of the new NIMBUS Centre for Embedded Systems Research and, on 16 March, 65 researchers and students relocated from diverse locations in CIT to the NIMBUS building. The project was completed on time and under the original budget.

The NIMBUS Centre is adjacent to and attached to the Rubicon Centre. This reflects the determination of the NIMBUS researchers not only to carry out high quality research but also to ensure that the research feeds through to innovation and commercialisation through licensing and new company start-ups. The integration of the Technologies for Embedded Computing (TEC) Centre (funded by Enterprise Ireland under the Applied Research Enhancement (ARE) programme) with NIMBUS further reflects this determination. This also exposes the Centre's postgraduate students to an innovation culture throughout their time carrying out research in the Centre. This strategy aligns closely with the recommendations of the recently published report from the Task Force on Innovation which call for a much greater emphasis on ensuring that research feeds through to tangible benefits to industry and on producing graduates who can contribute directly to Ireland's fast-growing knowledge economy. In this context, NIMBUS is currently training 32 postgraduate researchers and NIMBUS staff are actively involved in undergraduate and postgraduate teaching in the Department of Electronic Engineering in CIT.

The NIMBUS Centre provides space for up to 80 researchers, including facilities for undergraduate project students, visiting postgraduate students and researchers from other institutions and dedicated industry visitor workstations, already in use, where company researchers can work in close collaboration with NIMBUS staff and use NIMBUS research facilities.

NIMBUS is CIT's first dedicated research centre and is intended not only to be a showcase for CIT's research but also to demonstrate CIT's ability to translate innovative research into economic benefit. As embedded systems can benefit all technology disciplines and can be used in many applications including sensing, energy, health, manufacturing, safety, environment, logistics and business, NIMBUS welcomes collaborations with other researchers and companies interested in these and related topics.

NIMBUS will be officially opened on 20 September 2010 by Mr Batt O'Keeffe T.D., Minister for Enterprise, Trade & Innovation.

## CIT@Tyndall

In September 2008, the Minister for Education and Science, Mr Batt O'Keeffe T.D., unveiled a plaque at the Tyndall National Institute to mark the successful research collaboration between Tyndall National Institute and CIT.

This collaboration has resulted in funding of the Marie Curie Initial Training Network (ITN), Postgraduate Research on Photonics as an Enabling Technology (PROPHET) with CIT and Tyndall acting as joint coordinators. The €4.8m *PROPHET*

research training programme focuses on photonics as an enabling technology, and will cover applications such as telecommunications, gas sensing for environmental monitoring, solar energy, and medical imaging. The network will train 14 Ph.D. students and five postdoctoral researchers over four years, in the wide spectrum of skills required for a multi-disciplinary, industry-focused career in photonics. The young researchers funded within the *PROPHET* network have an exceptional opportunity to obtain a comprehensive training in photonics, with generous Marie Curie funding which includes a competitive salary and mobility and career exploration allowances. Not only do they benefit from the excellent facilities and expertise at their host Institute, but will also experience secondment visits to other network partners, all of whom have worldwide reputations as leaders in their field. Each researcher will also gain valuable experience of working in industry, thanks to the strong industry involvement in the network. The young researchers will form the core of a vibrant, European-wide network of photonics researchers, with annual training workshops, a summer school, and a final network conference. The ITN calls for funding are highly competitive; in the 2010 call in which *PROPHET* was funded, only 63 proposals were successful out of 863 submitted, a success rate of just 7%. *PROPHET* is one of only two ITNs in the 2010 call to be coordinated by an Irish partner.

### **Research with Indian Universities**

In a major development, CIT has expanded its strategic relationship with a major Indian university with industry support. The University of Pune (UoP) is one of India's most respected and significant universities. It boasts a postgraduate student population of 6,000 and an undergraduate student population of 650,000 in its affiliated colleges. CIT and UoP signed a Memorandum of Understanding in 2008 and have now agreed to implement a broad series of initiatives in research, student and staff exchange and innovation ecosystem development. Cork company, Zenith Technologies Ltd., leading providers of automation and manufacturing execution system solutions to a range of industries, is providing significant support to aid the expansion of the relationship in line with its business development objectives in Ireland and India.

UoP invited CIT to participate in a major bilateral research and innovation colloquium in January 2010 which focused on the theme of "Collaboration in Science and Technology". A delegation of CIT's senior management and research staff participated in a series of workshops, research presentations, lectures, laboratory visits and industry meetings with counterparts from UoP to identify opportunities of mutual benefit to both institutions. The Head of CIT's Faculty of Engineering & Science, Mr Michael Loftus, stated that "the result was a detailed plan of cooperation involving research collaborations, faculty and student exchanges and curriculum developments, alongside the fostering of an innovation ecosystem with an emphasis on converting research into commercial products and processes. Opening up global markets for Irish companies is a major reason for CIT to develop close ties with India."

At the inauguration of the conference, His Excellency Mr Ken Thompson, Ambassador of Ireland to India, commented on the commitment shown by both sides in terms of both the size of the respective delegations (with the delegation from CIT being the largest ever from an Irish institution to visit an Indian university) and the seniority of the personnel.

According to Dr Niall Smith, Head of Research, CIT, "*a particularly significant development centres on a planned visit by staff from Pune to CIT, to observe and better understand the way in which CIT researchers work closely with industry as part of an end-to-end innovation ecosystem. This includes a comprehensive understanding of how to translate research ideas to commercial reality, so that research activities are of direct economic benefit, a culture that has been at the heart of the vibrant research and innovation activity in CIT for the past twenty years.*"

The key research areas that will be strengthened through the collaboration include photonics (the generation and detection of light, with applications in the next generation of internet devices), biologically active compounds (from diverse sources including herbs, with a wide range of medical applications), bioinformatics, sensor technology and biomedical engineering. All areas are of considerable importance to industries in both Ireland and India.

## Research and Innovation at the NMCI

Activity in research and innovation continues to grow at the NMCI and this is expected to increase further with opportunities provided by the PRTL V funded Maritime and Energy Research Cluster (MERC) that will be sited adjacent to the NMCI. A Memorandum of Agreement relating to MERC was signed by CIT, UCC and the Irish Naval Service(INS) in March 2010. Some examples of ongoing research and innovation at the NMCI activities are listed below:

	<b>Project partners</b>	<b>Programme</b>	<b>Status</b>	<b>Theme</b>	<b>NMCI lead and key partners</b>
1	IMCORE	Interreg	Active	3D modelling for flood risk management	CIT, Bishopstown
2	Maritime Education Platform	Leonardo	Active	Maritime education/ distance learning	NMCI, William Kavanagh
3	PERSEUS	FP7	Active	Surveillance for sea border protection	INS, Martin Counihan
4	Seftec Innovation Partnership	EI	Active	Fire fighting – monitoring and 3D modelling	CIT, Bishopstown Willie Roberts
5	Ship refit optimisation	UCC PhD study	Active	Constraint modelling and cost benefit analysis	Think Smart, James Little, Bob Scarrott

## Research Showcases

The Photonics researchers in CIT held a showcase event on the 23 March in the Rory Gallagher Theatre on the CIT Bishopstown Campus, presenting an overview of the vibrant research activities in photonics pursued by CIT researchers. The event invited interested CIT staff and/or students to attend and learn more about photonics, find out how it can impact their own area of study, and ask questions and have informal discussions with the CIT photonics researchers. The event was well attended and is due to become an annual event.

A Lifesciences Showcase is planned for September 2010.

## Postgraduate Numbers

The current number of researchers is listed in the table below:

PhD students	53
Full-time	47
Part-time (Total numbers and FTE)	06
Masters by research students	114
Full-time	93
Part-time (Total numbers and FTE)	21
Postdoctoral Researchers	04

## Applied Research Enhancement Centres (ARE)

The three ARE Centres continued to perform excellently, with increasing numbers of projects and more direct-industry funding. Two of AREs – CAPP and MEDIC – will move to the new CREATE building in 2013, providing them with enhanced research infrastructure and additional equipment, whilst also being embedded in a multidisciplinary research and innovation environment.

## Supervisor Training

The Research Office delivered three training courses for supervisors in 2010 with a total attendance of 54 staff. The supervisor training was prepared in association with National Association for the Integration of Research Teaching and Learning (NAIRTL), UCC, TCD, NUIG, and WIT. Feedback from the training was positive. Supervisor training is seen as a key element in the Institute's Innovation Ecosystem. It is planned to establish a Supervisor Forum to supplement the Supervisor Training in 2011.

## Current areas of Specialisation and Expertise

There are currently twelve active research groups operating in departments across the Institute in addition to individual research supervisors.

Some of the main research areas are as follows:

- Telecommunications, Adaptive Wireless Systems;
- Molecular Biology/Applied Molecular Genetics, Environment (Marine and Freshwater), Bioanalytical Methodology, Medical Diagnostics, and Food Safety and Product Quality;
- Ecotoxicology, Proteomics, Pollution Monitoring & Control, Clean Production Technologies, Sustainable Development, Environmental Management and Air Quality;
- Surface Physics, Materials Science, Nanotechnology, Computerised Instrumentation, Biophysics, Astrophysics, and Photonics/ Optics;
- Electronic Engineering: Modern Signal Processing, Adaptive Control, Applications in Communication Systems, Electronic Power Systems, Software Engineering, and Optoelectronics;
- Mechanical Engineering, Fatigue Analysis, Renewable Energy, Aluminium Alloys, Turbine Component Measurement, Biofuels and Biomedical Engineering
- Software Development, and Neural Networks;
- ICT in Education, Web-based Learning, Digital Media, Work-based, Open and Distance Learning, Certification/Qualification frameworks and Skill/competency needs analysis;
- Social Care;
- Art and Design - new and native materials (ceramics and foundry research);
- Music (20th century Irish Composers).

This research is in addition to research and consultancy undertaken within Technology Centres in the Institute. These centres are national resource centres and provide independent expertise, advice, and assistance to different sectors of industry, business and government bodies. They include:

- The Centre for Advanced Manufacturing and Management Systems (CAMMS) provides individuals and companies opportunities to study for and obtain professional qualifications in specific areas as well as research and consultancy services to a range of industries in areas such as plant layout and process optimisation.
- The Clean Technology Centre (CTC) was formed in response to the growing need for better environmental performance in industry and society and the need to minimise waste at source as opposed to waste treatment and disposal. This centre provides training and consultancy to industry as well as research into cleaner production technologies, waste classification, and waste minimisation, at national and EU levels. In 2009/10 the turnover was approximately €1m.
- Blackrock Castle Observatory (BCO) continued its very strong performance as a national promoter of science and engineering, with over 45,000 visitors in 2009/10. The observatory was again the most popular educational destination in Cork City and County for second-level students, and it hosted a large number of high-profile events, promoting science in society, local and national knowledge-based industries, and art and heritage.

### **Alimentary Pharmabiotic Institute (API)**

A Memorandum of Understanding (MOU) was signed between CIT, API and Teagasc establishing a formal collaboration based on the already well-established collaborative research links in the Biosciences between the parties. Research areas of mutual links include biomolecule discovery, biotherapeutics, infectious disease, antimicrobials, gut health, and cancer.

### **Funding**

During the year, the opportunities for funding applications from Irish sources were significantly reduced. Enterprise Ireland, who are a primary source for research funding withdrew a number of funding programmes and curtailed the remainder. Despite this however, CIT researchers continued to secure some funding:

- Researchers in the Photonics Strategic Research Cluster were awarded €110,000 by Enterprise Ireland for industry-focused research, of which €25,000 was funded by the industrial partners;
- The TEC Centre based in the NIMBUS building was awarded research funding of €100,000 by Enterprise Ireland in an Innovation Partnership with an industrial partner;
- CIT/NMCI were awarded an Innovation Partnership of €120,000 in partnership with a local company;
- Approximately 30 Innovation Vouchers were completed with industrial partners in the region. These are small vouchers (€5,000) that companies apply to Enterprise Ireland for and once approved can use in any third-level institution. For many companies it was their first time interacting with a third-level institution and the voucher enabled the company to complete some level of research or innovation. In many instances the relationship with CIT continued on completion of the voucher project.

## 4.3 External Development Links

During the year, the Institute continued to foster and promote links with external organisations and institutions both nationally and internationally. These included:

- IDA
- FÁS
- Enterprise Ireland
- Cork City Enterprise Board
- South Cork Enterprise Board
- North Cork Enterprise Board
- CorkBIC
- Cork Chamber of Commerce
- it@cork
- Cork Electronics Industry Association

### Cork Science Innovation & Technology Park (CSITP)

The Advisory Board for the CSITP was appointed and met for the first time in January. The Board includes representatives from industry, support agencies in the region (CIT, UCC, Enterprise Ireland, IDA, Cork Chamber, Cork County Council) and representatives from the local landowners.

### International Activities

#### Lifelong Learning Programme (LLP)/Erasmus Programme

#### Erasmus Mobility Activities

During 2009/2010, the activities under the LLP Erasmus programme continued to develop. CIT had been awarded an Extended Erasmus University Charter for the period 2007-2013, which enables 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 €166,449 was received from the HEA (Erasmus National Agency) for mobility activities to take place during the period from 1 June 2009 to 30 September 2010.

During 2009 to 2010, 21 CIT students participated in the Erasmus Study Exchange programme, whilst 35 students carried out Erasmus-funded placements abroad.

12 CIT lecturers carried out Erasmus teacher exchange at partner institutions, whilst a similar number of incoming lecturing exchange visits also took place. A number of Erasmus placement monitoring visits were also funded.

Also, CIT welcomed 140 incoming Erasmus students for study exchanges and placements during 2009/2010.

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

- Accounting & Information Systems
- Applied Physics and Instrumentation
- Architecture
- Biological Sciences
- CIT Cork School of Music
- CIT Crawford College of Art & Design
- Civil, Structural & Environmental Engineering
- Computing
- Construction
- Chemical & Process Engineering
- Chemistry
- Electronic Engineering
- Management & Marketing
- Mechanical Engineering
- Media Communications
- National Maritime College of Ireland
- Social & General Studies
- Tourism & Hospitality Studies

Erasmus mobility exchanges took place with partner institutions in the following countries: Austria, Denmark, France, Finland, Germany, Sweden, The Netherlands, Spain, Belgium, Poland, UK, Czech Republic, Italy, Hungary, Greece, Portugal and Romania.

### Exchange Partnerships

CIT currently has Erasmus exchange agreements with over 100 European partner institutions. The Institute was a partner in successful applications for two Erasmus Intensive programmes involving the departments of Media Communications, Management & Marketing, Social and General Studies and CIT CCAD and CIT CSM. Students from these departments/Colleges will have the opportunity to attend week-long courses at partner institutions over the coming three years.

### Erasmus Intensive Programmes

An Intensive Programme entitled “Towards Creative Entrepreneurship” has received funding approval from the EU. CIT is one of five European partners involved in the project, which is being coordinated by Lahti Polytechnic, a long-standing Erasmus partner institution of CIT, in the areas of Music, Fine Art, Tourism & Social Work. The other partners are the Norges Musikkhogskole, Oslo, Eesti Muusika-ja Teatriakadeemia, Tallin, and Southampton Solent University. The group will hold its first meeting in the autumn of 2010, to plan the 10-day intensive programme which will involve a group of staff and students from each partner institution. Total funding for the project is €38,227.50. CIT departments involved: CIT CSM, CIT CCAD, Department of Media Communications, and the School of Business. A group of ten students and three CIT staff attended the first “Towards Creative Entrepreneurship” programme at the host institution, Lahti University of Applied Sciences, Finland, in January 2010. The programme will be hosted by CIT in 2011.

CIT is also a partner in two other Intensive Programmes, which have been successfully funded, involving the Department of Social and General Studies and the School of Business.

#### **George J Mitchell Peace Scholarship**

CIT continued its participation in this scholarship exchange programme, which was established to commemorate the signing of the Good Friday Agreement.

#### **EU Canada Programmes in Higher Education, Training and Youth**

The EU-Canada programme has been formulated with the aim of promoting mutual understanding between the peoples of Canada and the European Union including broader knowledge of their languages, and cultures and institutions.

CIT has been successful in securing funding for two projects, The Food Link and M-CAPSS under the EU-Canada Programme 2006-2013.

#### **The Food Link**

This project established an international food link, sharing knowledge in the area of quality systems, safety and international trade. Courses were amended and developed to make them homogeneous wherever practical. Students had the opportunity to travel abroad for a full semester where they received education that was accredited toward their course programme at their home institution. They were registered for a full semester and were taught in a whole new perspective in addition to being immersed in a new culture. Graduate students in the partner institutions had the opportunity to conduct research at an international institution in a food-related area. Depending on their research goals and objectives, their stay varied in length from a few weeks to a semester. A work term/ placement component was also included in this project. International work placements with industry were made available for duration of up to four months. Memoranda of Agreement underpinned 49 student exchanges between the participating institutions. Staff teaching assignments supported the curriculum development and student mobility activities. Computer and web based materials were developed and tested for selected courses. Multilateral co-operation in this highly focused area of higher education and research provided considerable "added value" for each of the participating colleges and support organisations. The project will continue to operate through the on-going collaboration of the six partners and other support agencies involved after the project end date which was September 2010.

#### **Partners**

##### **EU**

Cork Institute of Technology (lead EU partner)  
University of Nottingham  
University of Copenhagen

##### **Canada**

Fisheries and Marine Institute, Memorial University of Newfoundland (lead Canadian partner)  
Dalhousie University  
British Columbia Institute of Technology

#### **M-CAPSS**

A project on Marine Crew and Passenger Safety and Security (M-CAPSS) was undertaken involving six partner institutions, three in the EU and three in Canada. Courses were developed which complied with STCW requirements as set down by the International Maritime Organisation (IMO). The project focused on the development of STCW 95 compliant common courses in Marine Safety, Security and Crowd and Crisis Management. Course material was developed under each of these headings so that the resources of all partner institutions were maximised thus maximising the benefits to partner institution students and staff. Student and faculty exchanges were used to develop and validate course material. The project also helped to strengthen existing relationships between the EU partner institutions. An MOU on future co-operation has been signed between CIT and the Canadian lead partner, The Marine Institute (Newfoundland).

#### **Partners**

##### **EU**

Cork Institute of Technology (National Maritime College of Ireland)  
Willem Barentsz Maritime Institute (Netherlands)  
Ecole Nationale de la Marine Marchande de Nantes (France)

##### **Canada**

The Marine Institute (Newfoundland)  
British Columbia Institute of Technology's Pacific Marine Training Campus (British Columbia)  
Institut Maritime du Quebec (Quebec) IMQ

#### **Undergraduate Entrepreneurship Activities**

CIT is increasing its undergraduate activity in the area of entrepreneurship year on year. The Development Office has a leading role in this area along with the academic departments. The Rubicon Centre is a huge asset in pushing this agenda forward.

#### **Enterprise Intern**

An Enterprise Intern was recruited over the summer and took up duty in September 2009. The role of the Intern is to promote entrepreneurship amongst the student population. The Intern is based in the Development Office and has access to the Academic Staff and to the Rubicon Centre and the start-up companies based there. The Intern spends 20 hours a week on promoting entrepreneurship on campus while pursuing a Masters in CIT. The Intern ran a number of competitions during the year, including a competition for the second-level students, which was held on the Institute's Open Day. This position is part-funded by a SIF project, Accelerating Campus Entrepreneurship, and part funded by CIT.

## 4.4 Campus Development

### Campus Development

#### Learning Resource Centre (LRC)

The National Treasury Management Agency (NTMA) are currently evaluating the tenders from the three preferred bidders in order to select the most economically advantageous tender to construct and operate the facility. It is expected that a decision will be made early in the new year. To facilitate the LRC development, the existing visitors' car park has been relocated to an area between the IT Building and Administration Building. The new car park has 27 spaces and is now fully operational.

#### Original Building (1974) Survey

This project will involve a detailed condition survey of the original building in terms of the external fabric and all services, together with compliance with current Building Regulations. The resulting report will include proposals and costs to upgrade the building to current standards, specifically in relation to energy rating. The procurement of the Professional Team to undertake the service was conducted under EU Regulations and the successful team leader is Coady Partnership Architects. Work has commenced on the survey and the final report is expected in early 2011.

#### CCTV System

The installation of the first two phases of a new digital CCTV system has been completed. A total of 60 new cameras have been installed together with a new control room. The effectiveness of the system can now be evaluated over the coming months to ascertain if additional cameras may be required.

#### Sustainable Campus Projects

The Institute was successful in getting grant aid from the Environmental Protection Agency (EPA) to assist with developing a number of initiatives in the areas of recycling waste and reducing electricity and water consumption as follows;

- In order to increase waste recycling, a colour coded system of bins has been introduced throughout the campus over the summer holidays;
- The phased introduction of LED flood lighting has commenced. The existing 400 Watt lamps are being replaced with a combination of 90 Watt and 30 Watt LED lamps. The payback period on the investment is 1.6 years which is very encouraging;
- In a joint venture between CIT and the ESB, a charging point for electric cars has been constructed on campus;

- In an effort to reduce water consumption, restrictors are being fitted to taps to reduce water flow. Two toilets have been fitted with waterless urinals as a pilot project.

#### Summer Works Projects

A number of minor projects were completed during the summer period. The total commitment was €500k approximately and the main projects are as follows;

- Completed the phased replacement of roof lights on the 1974 building;
- Install Passenger lift in main building;
- Replaced tiered seating in IT3;
- Replaced floor covering to a number of corridors in the main building;
- Upgraded heating system in student canteen;
- Upgraded Theatre entrance and increased size of Post Room;
- Installed electronic assisted door openers to 12 heavy doors;
- Constructed additional ladies toilet on 2nd Floor of Administration Building;
- Upgraded remote controls for car park barriers.

#### Tyco Building

The Institute purchased this neighbouring property towards the end of 2009, comprising a factory type building (7,500 sq. metres approximately) standing on 3.24 hectares of land. Following a significant consultation process a number of uses have been agreed for the building and RKD Architects have developed floor plans based on the agreed requirements. These plans have been lodged with the Planning Department, Cork City Council to seek a change of use for the building. The plans will also be used to prepare a Fire Safety application for the building and that work is now underway. A condition survey of electrical and mechanical services is being carried out at present, together with an asbestos survey.

The spaces allocated to the CTC and Elite Sport activities have been refurbished and are being occupied at present. Some other areas are at detailed design stage.

#### Student Centre

There has been a number of developments within this building. The Gala shop has been relocated to a larger unit formally designated for bar use. The old Gala shop unit has been converted into the Assistive Technology Centre, creating fourteen spaces for students with special requirements. One of the meeting rooms in the Gallery area has been adapted in a flexible fashion so that it can be extended to creating a seminar room capable of seating 120 people.

**Research Centre (NEMBES)**

Construction work on this 1,800 sq. metres facility began in January 2009 and was completed towards the end of 2009. Staff and research students commenced occupancy in March 2010.

**Extension to Rubicon Centre**

Construction work on this 900 sq. metres extension began in October 2009 and was completed in May 2010.

**Athletics Track Spectator Stand**

Construction commenced in June 2009 and was substantially completed by the end of 2009, with seating fitted in spring 2010. The stand comprises seat accommodation, warm up area, offices, and toilets. The Minister for Enterprise, Trade & Innovation, Mr Batt O’Keeffe T.D., performed the official opening of the spectator stand on 4 June 2010.

**Phased Elimination Plan for Prefabs**

A plan for the elimination of prefabs from the Bishopstown campus has been developed and circulated to Senior Staff. This plan would see the phased removal of the vast majority of prefab stock over the next two years. A strategic decision has also been made to re-accommodate anyone with an office in a prefab to a permanent building by the end of summer 2011.

## 4.5 Safety & Facilities Management

Raising Health & Safety awareness continues to be a priority for the Institute and in an effort to assist with this goal the CIT Safety Committee and Emergency Response Team joined forces to organise some special events during 2009/2010. These included the manning of a health & safety stand during CIT Safety Week, demonstrations in the use of fire extinguishers by Cork City Fire Brigade and the mass training of 129 staff and students over two days in the use of CPR and AED (Defibrillator).

### **Emergency Evacuation & Fire Alarm Testing**

Emergency evacuation drills took place as scheduled throughout the Institute during the academic year 2009/2010. All fire alarm and bell tests were completed and certified. Fire extinguisher and hose reel checks were completed as per the service agreement.

### **General Safety & Training**

Staff Training courses were run in the areas of Occupational First Aid, HeartSaver AED (Automated External Defibrillators), Oxygen Therapy and Airways Management, Manual Handling, Hazard Identification and Risk Assessment, VDU and Workstation Ergonomics, Chemical Safety Awareness, Handling and Storage of Gasses, Mobile Elevated Work Platforms (MEWP's), Fork Lift Drivers Course and more.

### **Hazard and Risk Assessments**

Departments are revising their hazard identification and risk assessment on an ongoing basis, further training was provided to staff on this subject when requested.

### **Safety Statement**

In order to comply with the Safety Health & Welfare at Work Act 2005 and the Safety Health and Welfare at Work General Applications Regulations 2007, the Institute went to tender for the development of a new Safety Management System to cover all CIT interests. This new system will be rolled out during the 2010/2011 academic year.

# 5. Human Resources Report

Cork Institute of Technology

- 5.1 Human Resources Report
- 5.2 Staff Numbers
- 5.3 Staff Achievements

## 5.1 Human Resources Report

### Staff Numbers

For the academic year 2009/10, the Institute's Headcount was 1,465 which equates to 955.07 Whole-time Equivalents. The largest category of staff were Academic Staff which accounted for 66% of the headcount (64% of WTE).

### Retirements

The following staff retired from service during the year:

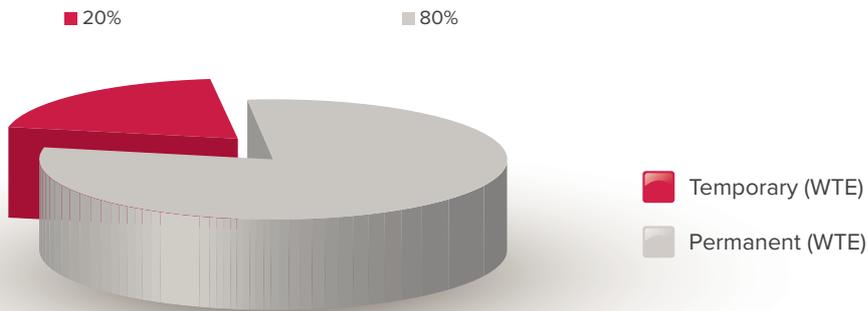
Dr Julian Campbell, Lecturer, CIT CCAD  
 James T Connolly, Lecturer, Department of Electronic Engineering  
 Matt Cranitch, Lecturer, Department of Electronic Engineering  
 Denis Cremin, Lecturer, Department of Mathematics  
 Peter Deasy, Lecturer (Structured), Department of Mechanical Engineering  
 Dan Duloherly, Technical Officer, Department of Applied Physics & Instrumentation  
 Dr Evelyn Grant, Lecturer, CIT Cork School of Music  
 Roger Hannam, Lecturer, CIT CCAD  
 Seamus Harrington, Lecturer, Department of Mechanical Engineering  
 John J Healy, Lecturer, Department of Mechanical Engineering  
 Patrick A Hegarty, Lecturer, Department of Architecture  
 Kevin Kehily, Lecturer, Department of Social & General Studies  
 Gerard J Kelly, Lecturer, CIT CSM  
 Kevin Kelly, Head of Department of Mathematics  
 Donal A Linehan, Lecturer, Department of Mechanical Engineering  
 Anthony P Lynch, Lecturer, Department of Mechanical Engineering  
 Breda Lynch, Lecturer, CIT CCAD  
 Annegret Mannion, Lecturer, Department of Management & Marketing  
 Harry McCormick, Lecturer, CIT CCAD  
 Dr Patrick J Moroney, Lecturer, Department of Chemistry  
 John Mulhare, Lecturer, Department of Mathematics  
 Paul F Murray, Lecturer, Department of Architecture  
 Tricia Murray, Clerical Officer, Finance Office  
 Eamon P O'Connor, Administration & Student Affairs Manager  
 Gerard O'Driscoll, Lecturer, Department of Mathematics  
 Patrick J O'Shea, Lecturer, Department of Mechanical Engineering  
 Donie O'Sullivan, Art Model, CIT CCAD  
 John O'Sullivan, Lecturer, Department of Construction  
 Donal Power, Lecturer, Department of Media Communications  
 Edward J Rearden, Lecturer, Department of Accounting & Information Systems  
 Nuala Rearden, Lecturer, Department of Social & General Studies  
 Edward Sheehan, Caretaker, CIT CSM  
 George Treacy, Lecturer, Department of Architecture  
 Eamonn Walsh, Lecturer, Department of Accounting & Information Systems

## 5.2 Staff Numbers

### Total Staff Numbers

	WTE	Headcount
Permanent	763.45	982
Temporary	191.62	483
<b>TOTAL</b>	<b>955.07</b>	<b>1465</b>

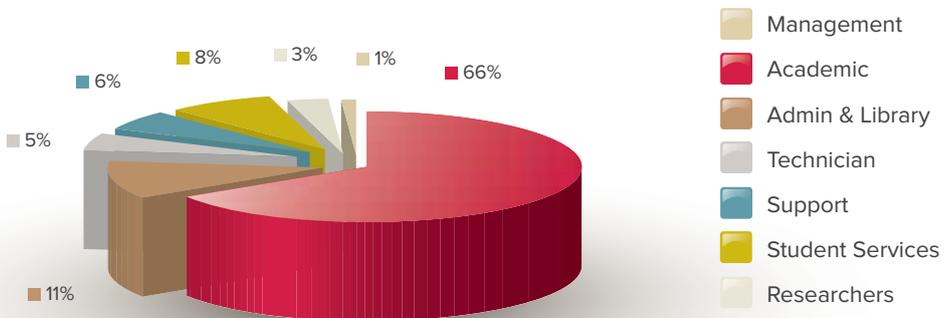
### Total Staff Numbers



### Staff by Category

	WTE	Headcount
Management	10.00	10
Academic	608.34	964
Admin & Library	136.08	158
Technician	77.87	79
Support	56.22	86
Student Services	29.71	125
Researchers	36.85	43
<b>TOTAL</b>	<b>955.07</b>	<b>1465</b>

### Staff by Category



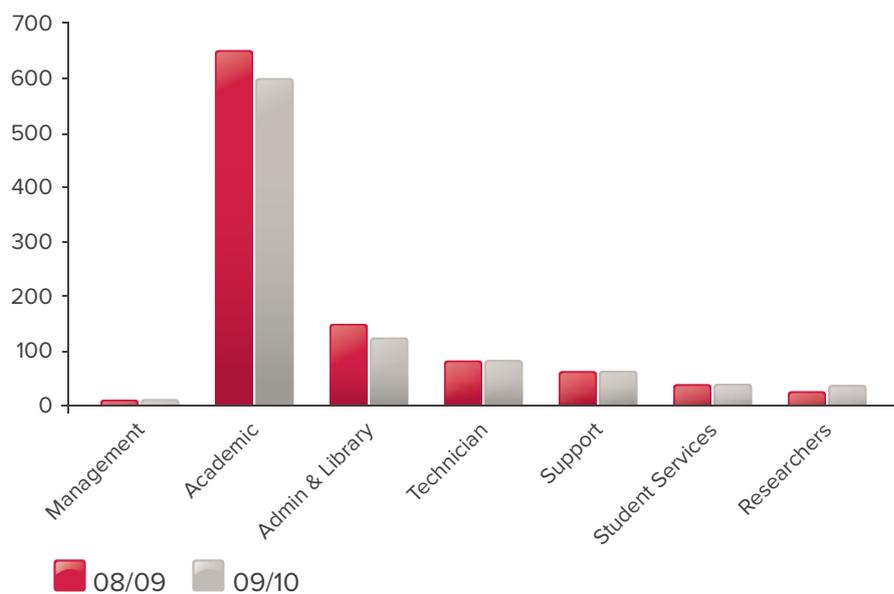
### Staff Trends – 2 Year History

	08/09	09/10
Management	10.00	10.00
Academic	624.64	608.34
Admin & Library	148.84	136.08
Technician	80.76	77.87
Support	59.25	56.22
Student Services	29.14	29.71
Researchers	25.5	36.85
<b>TOTAL</b>	<b>1009.66*</b>	<b>955.07**</b>

\*These figures are taken from the Public Sector quarterly returns as at 31 December 2008.

\*\*These figures are taken from the Public Sector quarterly returns as at 31 December 2009.

### Staff Trends - 2 Year History



## 5.3 Staff Achievements

### Congratulations were extended to the following:

- Orla Flynn, Acting Head, CIT CCAD was appointed to the National College of Art & Design (NCAD) Board;
- Captain Cormac MacSweeney, Lecturer, NMCI was presented with an award by the Chartered Institute of Logistics & Transport for obtaining the best marks in Ireland in the examinations for the Bachelor of Business in Supply Chain & Transport Management;
- Nicole Panizza, Lecturer, CIT CSM who received a Fulbright Scholarship to study as a Visiting Fellow at Harvard University and the Manhattan School of Music from January to July 2010;
- Debbie Dawson, Lecturer, CIT CCAD who was selected to work with Peadar Lamb on a commissioned project for the Irish Repertory Theatre, New York;
- Dr Roy Sleator, Lecturer, Department of Biological Sciences who was awarded the European Society for Clinical Microbiology and Infectious Diseases (ESCMID) Research Excellence Award in recognition of his work on designing improved therapeutics to deal with the so called 'super bugs' emerging infectious diseases;
- Seán McKiernan, Lecturer, CIT CSM who was awarded one of the highest accolades bestowed upon Irish traditional musicians, the prestigious TG4 Gradam Ceoil for 2010;
- Pamela Hardesty, Lecturer, CIT CCAD who received the 2009 Arte & Arte Foundation Purchase Award at the Miniartextil International Exhibition, Como, Italy;
- Regina Crowley, Lecturer, CIT CSM who qualified as Ireland's first Designated Linklater Voice Teacher;
- Rose McGrath, Acting Head of Department of Media Communications who was appointed to the Board of Institute of Designers of Ireland;
- Michael Murphy, Lecturer, CIT CCAD who was appointed Director, Cork Printmakers;
- John Cronin, Lecturer, Department of Architecture who took part in the Haven House Build for Haiti. John spent a week as a volunteer building houses in Quanamithe, Haiti in October and raised over €4,000 for the worthy cause
- Dr Ailbhe Ní Bhriain, Lecturer, CIT CCAD who was the Arts Council of Ireland Visual Arts Bursary 2010 recipient;
- Dr Gabriela Mayer, Head of Department of Keyboard Studies, CIT CSM who participated as an AEC representative on the Institutional review of the Cluj Academy of Music, Romania in May;
- Sue Cunliffe, Lecturer, CIT CCAD who gave a solo exhibition entitled "Laughter and Tears" at the Doswell Gallery in September. Sue was the prizewinner of the Impressions Exhibition 2009 at both the Galway Arts Centre and the Wrexham International Print Exhibition in Wales;
- To the lecturing team from the Department of Continuing Education on their significant success in the Chartered Accountants Professional 2 Examinations of the Institute of Chartered Accountants in Ireland. Three of the Department's students achieved places in the top ten out of a total of 1,300 students in both the Republic and Northern Ireland. The following were the lecturing team:
  - Bernard Valley
  - Bert Ahern
  - Joe Healy
  - Paul Gosal
  - Niall McLoughlin
  - Paul Mahony
  - Sarah Culihane

- Staff at the CIT CCAD whose work featured in recent exhibitions at National and International level:
  - Dr Julian Campbell
  - Colin Crotty
  - Sue Cunliffe
  - Debbie Dawson
  - Pamela Hardesty
  - James Hayes
  - Catherina Hearne
  - Jo Kelley
  - Breda Lynch
  - Leo McCann
  - Dr Ailbhe Ní Bhriain
  - Christine Pybus
  - Helle Helsner
  - Helen Farrell
  - Eileen Healy
  
- Staff Members who were conferred include:
  - Sharon Cahill, Certified VAT Technician
  - Glynis Dennehy, Post Graduate Diploma in Public Relations
  - Colin Donoghue, MSc in Construction Project Management
  - David Hamilton, Master of Engineering
  - Joseph Kehoe, MSt in Interdisciplinary Design in the Built Environment
  - Patrick Kennedy, MSc in Occupational Safety & Health
  - Margaret Mulderrig, Advanced Diploma in Personal & Executive Coaching
  - Olive Murphy-O'Dwyer, Master of Business Studies
  - Máire Ní Mhuinhneacháin, BA Human Resource Management
  - Regina O'Flynn, Doctor of Philosophy
  - Jane O'Keeffe, Master of Business Studies
  - Niall O'Luasa, MA Music Performance (Piano)
  - Amy Prendgergast, MA Music Performance (Recorder)
  - Dr Roy Sleator, Post Graduate Diploma in Teaching & Learning in Higher Education, and, Certificate in Bioinformatics
  - Lucia Woods, BCL Honours

### **New Appointments**

The following staff were confirmed for appointment during the academic year 2009/10:

- Dr Noel Barry, Acting Head of Academic Studies, NMCI
- Rev Dr David McAuliffe, Institute Chaplain
- Joseph Croke, Assistant Lecturer, Department of Biological Sciences
- Gwen Lettis, Assistant Lecturer, Department of Media Communications
- Jason O'Shaughnessy, Assistant Lecturer, Department of Architecture
- Donogh Coleman, Assistant Lecturer, Department of Civil, Structural & Environmental Engineering
- John Twohig, Head of Centre of Craft Studies
- Dr Christopher Mamo, Assistant Lecturer, Department of Social & General Studies
- Dr Patrick Walsh, Assistant Lecturer, Department of Mechanical Engineering
- David Kelly, Technician, Department of Biological Sciences
- Emma Callanan, Technician, Computer Services

# 6. Finance Report

Cork Institute of Technology

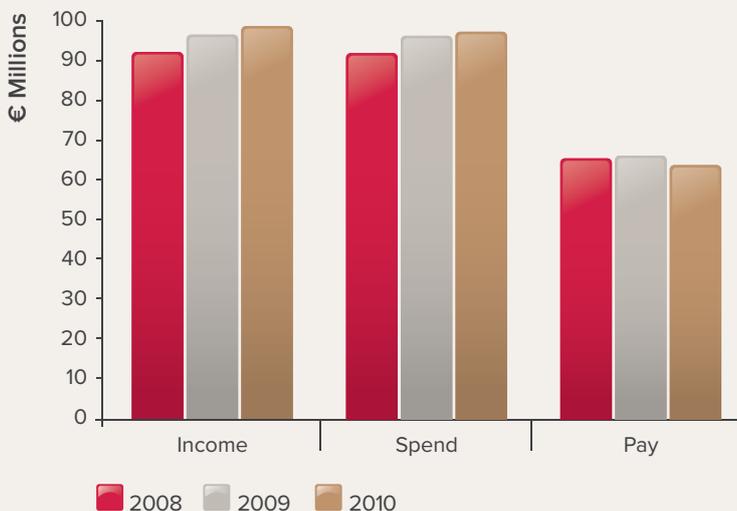
- 6.1 Financial Report
- 6.2 Audited Accounts 2009/2010

## 6.1 Financial Report

This financial report covers the period from 1 September 2009 to 31 August 2010. During the period income grew slightly and overall expenditure remained at the previous year's levels.

### Income

Income increased by €1.6m from €97.3m to €98.9m with Research & Development activities accounting for the majority of this increase. Income from the Student Registration Charge and Tuition Fees increased by €5.1m and €2.2m respectively but this was offset by a decrease of €6.8m in the State Grant. The contribution to overall income from these three sources of funding remained unchanged from 2009 at €73m.



### Current Expenditure

The Institutes total current expenditure remained static during the period at €95.5m. Spending on R&D increased by 10% to €14.2m while spending in Academic Departments fell by 3% to €55.3m which can be attributed to a reduction in staffing costs.

The Institute's pay bill fell from €66m in 2009 to €63m in 2010 and now accounts for 65% of expenditure as opposed to 70% in the previous year. During the period, the average number of employees also fell by 30 to 1,113. Since 2008 the average number of employees has fallen by over 7%.

In the corresponding period, the number of whole-time equivalent students increased by almost 9% from 7,509 to 8,178 resulting in an increase efficiency in the delivery of academic programmes.

### Capital Expenditure

Capital Expenditure for period was €14.5m, of which €12m is accounted for by additions to the Institutes building stock including the NIMBUS Research Centre and the adjacent Tyco building which has increased the footprint of the Bishopstown campus.

### Research & Development

Income from Research, Development and Self-Funding Activities grew by 10% to €13.9m as many of the larger scale research projects are now fully staffed and operating. The Institute continues to develop in this important area.

### Reserves

For the year ending 31 August 2010, the Institute had an operating surplus of €3.3m. €2.1m was transferred to the Capital Development Reserve and the State Debtor of €2.6m was written off as a result of a change by the HEA to the method of funding the Institute. The net impact was a reduction in the accumulated surplus at the year-end from €1.9m in 2009 to €0.8m.

## 6.2 Audited Accounts 2009/10

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

Balance Sheet

Cash Flow Statement

Notes to the Financial Statements

## 6.2.1 Statement on Internal Control

### Responsibility for System of Internal Control

The Governing Body acknowledges its responsibility for ensuring that an effective system of internal financial control is maintained and operated. The system of internal control consists of those processes used to identify, evaluate and manage the significant risks faced by Cork Institute of Technology in the management of its affairs. The system is designed to manage rather than eliminate risk, recognising that only reasonable and not absolute assurance can be provided that assets are safeguarded, transactions authorised and properly recorded, and that material errors or irregularities are either prevented or would be detected on a timely basis.

### Key Control Procedures

The Governing Body has taken steps to ensure an appropriate control environment, including

- Procedures and regulations are currently documented, implemented and up to date.
- Regular reviews by the Governing Body of periodic and annual reports, which include performance against forecasts.
- Clearly defining capital investment control guidelines.
- An audit committee, with a defined audit charter in place, with clear terms of reference which deals with significant control issues and receives the reports of the internal and external auditors.
- The Governing Body has identified business risks and they are continuously reviewed.

Cork Institute of Technology has an Essential Activities & Process Model to facilitate management and the Governing Body to identify the key activities and the processes in place to manage its operations effectively. This model integrates the Strategic Planning Process, Risk Management, Key Performance Indicators, Internal Control, Quality, Governance and Internal Audit processes.

Cork Institute of Technology has an outsourced internal audit function, which operates in accordance with the Code of Governance of Irish Institutes of Technology. An internal audit strategy for 2009 has been developed based on risk assessment. This audit strategy has been approved by the audit committee and the Governing Body.

The Audit Committee meets the Internal Auditors on a regular basis to review the work of Internal Audit, which includes a report of the internal audit activity. The framework of Internal financial control consists of 14 key financial activities and identifies checks that should be performed regularly to evaluate the effectiveness of the internal control environment. The Internal Audit programme for 2009/2010 included a review of 5 of the 14 areas. Additionally, a broader review of Internal Control was undertaken in an effort to progress towards compliance with the Statement of Internal Control format set out in the Code of Governance of Irish Institutes of Technology.

An Internal Control Framework is being developed for the sector. This will be tailored as appropriate to Cork Institute of Technology.

The Governing Body monitoring and review of the effectiveness of the system of internal control is informed in the first instance by the work of the President and Institute Executive Managers within Cork Institute of Technology who have responsibility for the development and maintenance of the control framework and by the work of the Head of Internal Audit and the Audit Committee which oversees the work of Internal Audit, and the comments made by the Comptroller and Auditor General in his management letter.

We confirm that the Governing Body conducted a review of the effectiveness of the system of internal Financial control.

The Governing Body is committed to fully implementing the Code of Governance of Irish Institutes of Technology and is working towards being in a position by 2011/12 to provide a Statement on Internal Control that conforms to the format set out in the Code.

Signed on behalf of the Governing Body



**Bob Savage**  
Chairman



**Dr Brendan J. Murphy**  
President

## 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.



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**Bob Savage**  
Chairman



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**Dr Brendan J. Murphy**  
President

### 6.2.3 Comptroller and Auditor General Report for presentation to the Houses of the Oireachtas

I have audited the financial statements of Cork Institute of Technology for the year ended 31 August 2010 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 balance sheet, the cash flow statement and the related notes. The financial reporting framework that has been applied in their preparation is applicable law 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 Institute's affairs and of its 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 applicable law.

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 Institute's affairs at 31 August 2010 and of its 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 moneys 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.

**John Buckley**  
**Comptroller and Auditor General**

**30 November 2011**

## 6.2.4 Statement of Accounting Policies for the year ended 31 August 2010

The significant accounting policies 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 in valuation) and with the requirements of the Higher Education Authority. CIT Innovation Centre Limited and Cosmos Education Limited are included in the Consolidated Financial Statements. On the basis of immateriality separate Institute and consolidated balance sheets are not provided.

### 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.

#### *Devolved Grants:*

The Minister for Education and Skills introduced a scheme to devolve responsibility to the Institute for Summer and other Capital Works. Where devolved grant monies, in respects 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 devolved grant 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. Ancillary Activities

The financial statements of certain entities do not form part of the accounts of the Institute. These statements are audited by independent auditors. Note 23 sets out information on ancillary activities including Income, Expenditure and Summary Balance Sheet.

### 4. Stocks

Expenditure on books and consumable stocks is charged to the Income and Expenditure account as incurred.

### 5. 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 per individual item 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:

	<b>Years</b>
Buildings	30-50
Prefabricated buildings, fixtures, plant and machinery	10
Mainframe Computers	7
Other computer equipment	4
Educational and administrative equipment	5
Furniture	5
Motor Vehicles	5

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.

**6. 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.

**7. 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.

**8. Deferred Capital Grants**

Deferred Capital Grants represent the amortised value of accumulated funds allocated for fixed assets.

**9. Restricted Reserve**

The Restricted Reserve represents amounts set aside from Student registration fees paid by students, funds from donations together with bank interest earned on these monies which are used for the provision of student facilities or other specified purposes for the long term development of the Institute. This Reserve no longer exists at 31 August, 2010.

**10. Capital Development Reserve**

The Capital Development Reserve represents funds set aside by the Institute for specified 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.

**11. 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 2010

<b>INCOME</b>	<b>NOTE</b>	<b>2010</b> <b>€000</b>	2009 €000
State Grant	1	47,248	54,080
Tuition Fees	2	16,142	13,963
Student Registration Charge	3	10,266	5,096
Amortisation of Deferred Capital Grants	17	6,175	6,191
Research Grants and Contracts	4	13,932	12,831
Other Income	6	4,350	4,604
Student Support Funding Income Recognised	5	343	300
Interest Income		<u>423</u>	<u>251</u>
		<b>98,879</b>	<b>97,316</b>
 <b>EXPENDITURE</b>			
Academic Departments	7	53,599	55,359
Academic Services	8	1,686	1,784
Facilities Costs	9	7,955	7,670
Central Administration and Services	10	8,905	8,532
General Educational Expenses	11	579	628
Student Registration Fees	3	2,126	1,980
Research Grants and Contracts	4	14,218	12,806
Student Support Funding Income applied	5	343	300
Depreciation	14	<u>6,122</u>	<u>6,172</u>
	12	<b>95,533</b>	<b>95,231</b>
 <b>Operating (Deficit) / Surplus</b>		<b>3,346</b>	2,085
Transfer to Restricted Reserve		-	(3)
Transfer to Capital Development Reserve		<b>(2,103)</b>	(611)
Transfer from Capital Development Reserve		<b>287</b>	-
State Recurrent Grant Write Off	15	<b>(2,628)</b>	-
 <b>Accumulated Surplus at 1st September</b>		<b>1,943</b>	472
<b>Accumulated (Deficit) / Surplus at 31st August</b>		<b>845</b>	<b>1,943</b>

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



**Dr Brendan J. Murphy**  
President

## 6.2.6 Consolidated Balance Sheet as at 31 August 2010

	NOTE	2010 €000	2009 €000
<b>FIXED ASSETS</b>	<b>14</b>	<b>111,665</b>	103,345
<b>INVESTMENTS</b>	<b>25</b>	<b>50</b>	-
		<b><u>111,715</u></b>	<u>103,345</u>
<b>CURRENT ASSETS</b>			
Debtors & Prepayments	<b>15</b>	<b>13,654</b>	10,986
Cash at bank and in hand		<b><u>11,733</u></b>	<u>13,019</u>
		<b><u>25,387</u></b>	<u>24,005</u>
<b>CURRENT LIABILITIES</b>			
Creditors and Accrued Expenses - amounts falling due within one year	<b>16</b>	<b><u>21,492</u></b>	<u>19,660</u>
		<b><u>3,895</u></b>	<u>4,345</u>
<b>NET CURRENT ASSETS</b>			
		<b><u>115,610</u></b>	<u>107,690</u>
<b>NET ASSETS</b>			
		<b><u>115,610</u></b>	<u>107,690</u>
<b>Represented by</b>			
Deferred Capital Grants	<b>17</b>	<b>111,665</b>	103,345
Income and Expenditure Account		<b>845</b>	1,943
Restricted Reserve	<b>18</b>	-	74
Capital Development Reserve	<b>19</b>	<b><u>3,100</u></b>	<u>2,328</u>
		<b><u>115,610</u></b>	<u>107,690</u>

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



**Dr Brendan J. Murphy**  
President

## 6.2.7 Cashflow Statement for the year ended 31 August 2010

	2010 €000	2009 €000
<b>Reconciliation of operating deficit to net cash inflow from operating activities</b>		
Operating (Deficit) / Surplus	3,346	2,085
Interest Income	(423)	(251)
Depreciation	6,122	6,172
Amortisation in line with asset depreciation	(6,175)	(6,191)
Loss on Disposal of Fixed Assets	53	19
Facilities Reserve used on Recurrent Expenditure	-	(186)
State Recurrent Grant Write Off	(2,628)	-
Amount transferred from Reserve to Research Grants & Contracts	(730)	-
(Increase) / Decrease in Investments	(50)	-
(Increase) / Decrease in Debtors	(2,668)	(433)
Increase in short term Creditors	1,832	4,331
<b>Net Cash (Outflow)/Inflow from Operating Activities</b>	<b>(1,321)</b>	<b>5,546</b>
<hr/>		
<b>Cashflow Statement</b>		
<b>Net Cash (Outflow) / Inflow from Operating Activities</b>	<b>(1,321)</b>	<b>5,546</b>
Interest Received	423	251
<b>Capital Expenditure</b>		
Payments to acquire Fixed Assets	(14,495)	(5,044)
Proceeds from the Disposal of Fixed Assets	-	-
<i>Net Cash Outflow for capital expenditure</i>	<b>(14,495)</b>	<b>(5,044)</b>
<b>Financing</b>		
State Capital Grants spent on Fixed Assets	5,923	100
State Recurrent Grants spent on Fixed Assets	1,539	1,104
Other funds spent on Fixed Assets	6,645	3,384
<i>Net Cash Inflow from Financing</i>	<b>14,107</b>	<b>4,588</b>
(Decrease) / Increase in Cash	<b>(1,286)</b>	5,341
<hr/>		
<b>Reconciliation of net cash flow to movement in net funds</b>		
<b>(Decrease) / Increase in Cash</b>	<b>(1,286)</b>	5,341
Net opening funds	<b>13,019</b>	<b>7,678</b>
Net Funds at 31 August	<b>11,733</b>	<b>13,019</b>

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



**Dr Brendan J. Murphy**  
President

## 6.2.8 Notes to the Financial Statements

### 1. State Grants

	Allocated for recurrent expenditure	Allocated for capital expenditure	Total 2010	Total 2009
	€000	€000	€000	€000
State grant for recurrent expenditure – HEA	<b>45,906</b>	<b>1,539</b>	<b>47,445</b>	53,981
State grant for capital expenditure - DOES	<b>7</b>	<b>5,478</b>	<b>5,485</b>	407
State grant for minor capital works - DOES	<u><b>1,335</b></u>	<u><b>445</b></u>	<u><b>1,780</b></u>	<u>896</u>
<b>Total - 2010</b>	<u><b>47,248</b></u>	<u><b>7,462</b></u>	<u><b>54,710</b></u>	<u>55,284</u>
Total - 2009	<u>54,080</u>	<u>1,204</u>	<u>55,284</u>	

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.

### 2. Tuition Fees

	2010	2010	2009	2009
	Student No (WTE)	€000	Student No (WTE)	€000
Fees Paid by State	6,047	<b>11,577</b>	5,462	<b>9,618</b>
Non-EU Fees	107	<b>234</b>	128	<b>196</b>
Fees paid by students or on behalf of students	849	<b>1,215</b>	717	<b>1,957</b>
Life Long Learning and Other Fees	<u>1,175</u>	<u><b>3,116</b></u>	<u>1,413</u>	<u><b>2,192</b></u>
	<u>8,178</u>	<u><b>16,142</b></u>	<u>7,720</u>	<u><b>13,963</b></u>

The HEA paid tuition fees in the year of €6.226m for full time degree courses and €5.351m for higher certificate and ordinary degree courses, the total costs of which are part funded by the ESF.

Student numbers are stated as wholetime equivalents, based on enrolled credits.

### 3. Student Registration Fees

- (a) Annual Registration Fees are payable by students, the full time rate being set at €1,500 for the 2009/10 academic year. By direction of the Higher Education Authority, €995 of each full time fee is retained by the Institute and applied to meet recurrent expenditure. This amounted to €6.951m in the year of account. The balance of €4m is used to provide facilities and services for students.

	<b>2010</b>	2009
	<b>€000</b>	€000
(b) Application of Registration Charges		
Gross Registration Charges including interest	<b>10,951</b>	5,770
Less Transfer to Self Funding	<b>(604)</b>	(693)
Transfer from Capital Development Reserve	-	91
Transfer to Capital Account	<b>(81)</b>	(72)
Net Income	<b><u>10,266</u></b>	<u>5,096</u>
Less Transfers in relation to:		
Student Services Committee	<b>2,126</b>	1,980
Capital Development Reserve	<b>1,189</b>	451
Total Transfer	<b><u>3,315</u></b>	<u>2,431</u>
<b>Retained for Recurrent Expenditure</b>	<b><u>6,951</u></b>	<u>2,665</u>
<b>4. Research Grants and Contracts</b>		
<b>Income</b>		
Income	<b>20,496</b>	16,143
Transfer to Capital Account	<b>(6,564)</b>	(3,312)
	<b><u>13,932</u></b>	<u>12,831</u>
<b>Expenditure</b>		
Staff Costs	<b>4,525</b>	4,537
<b>Non Pay Costs</b>		
Materials & Other Consumables	<b>770</b>	603
Computer Costs	<b>199</b>	287
General Education	<b>1,123</b>	1,900
Services to Students	<b>5</b>	8
Project Partners	<b>2,302</b>	80
Equipment	<b>534</b>	49
Premises Costs	<b>884</b>	847
Travel & Subsistence	<b>1,042</b>	757
Personnel Costs	<b>475</b>	557
Professional Fees	<b>1,937</b>	2,731
Communications	<b>70</b>	74
Stationery & Office Materials	<b>233</b>	218
General Advertising & Publicity	<b>101</b>	141
Finance Costs	<b>9</b>	6
Other	<b>9</b>	11
	<b><u>14,218</u></b>	<u>12,806</u>
<b>Net Outcome</b>	<b><u>(286)</u></b>	<u>25</u>

Included in the Research Grant and Contract Income is an amount of €300k in respect of overhead recovery. The balance represents direct costs recovered for research work undertaken as outlined under Expenditure headings above.

**5. Student Support Funding**

	<b>Disabilities</b>	<b>Student Assistance</b>	<b>2010 €000</b>	2009 €000
Balance at 1 September 2009	227	105	<b>332</b>	277
Receipts				
Higher Education Authority Allocated to Self Funding	196	205	<b>401</b>	355
Allocated to Capital	-	(105)	<b>(105)</b>	-
	<u>196</u>	<u>100</u>	<u><b>296</b></u>	<u>355</u>
Amounts Applied – Non Pay	138	205	<b>343</b>	300
Balance at 31 August 2010	<u><u>285</u></u>	<u><u>-</u></u>	<u><u><b>285</b></u></u>	<u><u>332</u></u>

Funding is provided by the Higher Education Authority under the National Development Plan and is part funded by the European Social Fund.

**6. Other income**

Superannuation Deductions Retained	<b>4,166</b>	4,438
Rental of Facilities	<b>19</b>	13
Proceeds from Sale of Equipment	<b>19</b>	21
Insurance Claims	-	29
Sundry Income	<b>146</b>	103
	<u><b>4,350</b></u>	<u>4,604</u>

**7. Academic Departments**

<i>Staff</i>		
Teaching	<b>42,776</b>	45,387
Technical	<b>4,033</b>	4,413
Administration and Support	<b>2,503</b>	2,455
	<u><b>49,312</b></u>	<u>52,255</u>
<i>Non Pay Costs</i>		
Materials & Other Consumables	<b>1,134</b>	1,246
Library Materials	<b>107</b>	76
Computer Costs	<b>336</b>	188
General Education	<b>49</b>	45
Equipment	<b>916</b>	37
Premises Costs	<b>445</b>	396
Travel & Subsistence	<b>310</b>	260
Personnel Costs	<b>202</b>	210
Professional Fees	<b>119</b>	68
Communications	<b>121</b>	97
Stationery & Office Materials	<b>453</b>	372
General Advertising & Publicity	<b>74</b>	73
Finance Costs	<b>11</b>	4
Other	<b>10</b>	32
	<u><b>4,287</b></u>	<u>3,104</u>
<b>Total</b>	<u><u><b>53,599</b></u></u>	<u><u>55,359</u></u>

	<b>2010</b>	2009
	<b>€000</b>	€000
<b>8. Academic Services</b>		
<i>Staff</i>		
Library & Computer Staff	<b>1,267</b>	1,241
<i>Non Pay Costs</i>		
Materials & Other Consumables	<b>4</b>	65
Library Materials	<b>76</b>	88
Computer Costs	<b>116</b>	169
General Education	<b>-</b>	5
Equipment	<b>71</b>	-
Premises Costs	<b>45</b>	20
Travel & Subsistence	<b>6</b>	4
Personnel Costs	<b>17</b>	26
Professional Fees	<b>28</b>	78
Communication	<b>36</b>	78
Stationery & Office Materials	<b>20</b>	10
	<b><u>419</u></b>	<u>543</u>
<b>Total</b>	<b><u>1,686</u></b>	<u>1,784</u>
<b>9. Facilities Costs</b>		
<i>Staff</i>		
Caretakers, Cleaning, Maintenance	<b>1,588</b>	1,756
<i>Non Pay Costs</i>		
Materials & Other Consumables	<b>32</b>	52
Computer Costs	<b>108</b>	100
General Education	<b>1</b>	2
Equipment	<b>331</b>	60
Premises Costs	<b>4,856</b>	4,583
Travel & Subsistence	<b>30</b>	8
Personnel Costs	<b>16</b>	34
Professional Fees	<b>876</b>	1,007
Communications	<b>53</b>	38
Stationery & Office Materials	<b>11</b>	11
Loss on Fixed Asset Disposal	<b>53</b>	19
	<b><u>6,367</u></b>	<u>5,914</u>
<b>Total</b>	<b><u>7,955</u></b>	<u>7,670</u>

**10. Central Administration and Services**

	<b>2010</b>	2009
	<b>€000</b>	€000
<i>Staff</i>		
Administration	<b>5,128</b>	4,981
<i>Non Pay Costs</i>		
Materials & Other Consumables	<b>60</b>	334
Computer Costs	<b>58</b>	83
Services to Students	-	107
Equipment	<b>244</b>	6
Premises Costs	<b>407</b>	604
Travel & Subsistence	<b>206</b>	218
Personnel Costs	<b>550</b>	539
Professional Fees	<b>1,305</b>	704
C & AG Audit Fee	<b>56</b>	29
Communications	<b>151</b>	114
Stationery & Office Materials	<b>214</b>	255
General Advertising & Publicity	<b>121</b>	190
Insurance	<b>372</b>	336
Finance Costs	<b>30</b>	22
Other	<b>3</b>	10
	<b><u>3,777</u></b>	<u>3,551</u>
<b>Total</b>	<b><u>8,905</u></b>	<u>8,532</u>

**11. General Education Expenses**

<i>Staff</i>		
Student Support	<b>544</b>	561
<i>Non Pay Costs</i>		
Other Expenses	<b><u>35</u></b>	<u>67</u>
<b>Total</b>	<b><u>579</u></b>	<u>628</u>

## 12. Analysis of Expenditure

	Staff Costs	Depreciation	Other operating expenses	2010	2009
	€000	€000	€000	€000	€000
Research Grants and Contracts	4,525	1,114	9,693	<b>15,332</b>	13,968
Academic Departments	49,312	1,378	4,287	<b>54,977</b>	56,742
Academic Support Services	1,267	538	419	<b>2,224</b>	2,304
Facilities Costs	1,588	1,483	6,367	<b>9,438</b>	9,178
Central Administration and Services	5,128	1,408	3,777	<b>10,313</b>	9,932
General Education Expenses	544	-	35	<b>579</b>	628
Student Support Funding	26	6	317	<b>349</b>	307
Student Services & Amenities	858	195	1,268	<b>2,321</b>	2,172
<b>2010 Total</b>	<u>63,248</u>	<u>6,122</u>	<u>26,163</u>	<b>95,533</b>	<u>95,231</u>
<b>2009 Total</b>	<u>66,234</u>	<u>6,172</u>	<u>22,825</u>		

### Analysis of Other Operating Expenditure

Materials & other Consumables	<b>2,035</b>	2,342
Library Materials	<b>183</b>	165
Computer costs	<b>849</b>	870
General Education	<b>1,602</b>	1,862
Services to students	<b>509</b>	530
Research costs	<b>(395)</b>	198
Project Partners	<b>2,302</b>	80
Equipment	<b>2,121</b>	153
Premises Costs	<b>6,995</b>	6,776
Travel & Subsistence/Hospitality & seminars	<b>1,695</b>	1,286
Personnel Costs	<b>1,272</b>	1,407
Professional fees	<b>4,694</b>	4,956
Auditors Remuneration	<b>56</b>	29
Communications	<b>452</b>	403
Stationery & office materials	<b>977</b>	887
General advertising & Publicity	<b>297</b>	419
Insurance	<b>386</b>	354
Finance costs	<b>60</b>	34
Loss on asset disposal	<b>53</b>	19
Other	<b>20</b>	55
	<u><b>26,163</b></u>	<u>22,825</u>

## 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.

#### 14. Fixed Assets

	Total	Buildings	Buildings in Course of Construction	Fixtures & Fittings incl. Prefabs	Computer Equipment	Plant & Machinery	Equipment	Motor Vehicles
	€000	€000	€000	€000	€000	€000	€000	€000
<i>Cost or valuation</i>								
At 1 September 2009	161,598	116,772	1,573	7,281	14,359	3,943	17,295	375
Additions	<b>14,495</b>	<b>13,762</b>	<b>(1,573)</b>	<b>472</b>	<b>665</b>	-	<b>1,167</b>	<b>2</b>
Disposals	<b>(1,723)</b>	-	-	<b>(40)</b>	<b>(1,231)</b>	-	<b>(452)</b>	-
	<b>174,370</b>	<b>130,534</b>	-	<b>7,713</b>	<b>13,793</b>	<b>3,943</b>	<b>18,010</b>	<b>377</b>
<i>Depreciation</i>								
At 1 September 2009	58,253	25,462	-	4,664	12,250	1,403	14,150	324
Charge for year	<b>6,122</b>	<b>2,757</b>	-	<b>573</b>	<b>1,162</b>	<b>398</b>	<b>1,219</b>	<b>13</b>
Disposals	<b>(1,670)</b>	-	-	<b>(19)</b>	<b>(1,215)</b>	-	<b>(436)</b>	-
	<b>62,705</b>	<b>28,219</b>	-	<b>5,218</b>	<b>12,197</b>	<b>1,801</b>	<b>14,933</b>	<b>337</b>
<b>Net Book Value At 31 August 2010</b>	<b>111,665</b>	<b>102,315</b>	-	<b>2,495</b>	<b>1,596</b>	<b>2,142</b>	<b>3,077</b>	<b>40</b>
<b>Net Book Value At 31 August 2009</b>	<u>103,345</u>	<u>91,310</u>	<u>1,573</u>	<u>2,617</u>	<u>2,109</u>	<u>2,540</u>	<u>3,145</u>	<u>51</u>

#### Cost or Valuation:

Land and Buildings in existence at 1 January 1993 have been valued by the Valuation Office. Other fixed assets in existence on that date have been 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 €2,950,704.60.

	2010 €000	2009 €000
<b>15. Debtors and Prepayments</b>		
Tuition Fees	1,312	1,051
State Recurrent Grant	2,204	2,628
State & Other Capital Grant	111	248
Research Grants and Contracts	7,723	5,343
Prepayments and Accrued Income	457	416
Other debtors	1,847	1,300
<b>Total</b>	<b><u>13,654</u></b>	<b><u>10,986</u></b>

Arising from a change in the method used by the Higher Education Authority for the allocation of recurrent funding to Institutes of Technology, the recurrent grant debtor of €2.628m at the close of 2009 was written-off in 2010.

#### 16. Creditors and Accrued Expenses

AMOUNTS FALLING DUE WITHIN ONE YEAR  
Payments received in Advance.

Research Grants and Contracts	13,731	12,576
Deferred Income Student Support Funding	285	332
Student Registration Charges Payable	-	5
	<b><u>14,016</u></b>	<b><u>12,913</u></b>
Trade Creditors and Accruals	111	234
State Capital Grant	349	1,693
PAYE	761	920
PRSI	522	558
Income Tax Withheld	37	50
Other Creditors	72	151
Accruals and Deferred Income	5,624	3,141
	<b><u>7,476</u></b>	<b><u>6,747</u></b>
	<b><u>21,492</u></b>	<b><u>19,660</u></b>

#### 17. Deferred Capital Grants

Opening Balance	103,345	104,492
Capital Grants Receivable		
State Capital Grant - DOES	5,478	(490)
Allocated from State Recurrent Grant – HEA Registration	1,539	1,104
Research, Grants & Contracts	81	72
Disability Funding	6,564	3,312
State grant for minor capital works - DOES	-	-
Transfer from Capital Development Reserve	445	590
Transfer from Restricted Reserve	314	456
	74	-
	<b>117,840</b>	109,536
<u>Release to Income</u>		
Amortisation in line with asset depreciation	(6,122)	(6,172)
Amount released on disposal of Fixed Assets	(53)	(19)
<b>Closing Balance</b>	<b><u>111,665</u></b>	<b><u>103,345</u></b>

	<b>2010</b>	2009
	<b>€000</b>	€000
<b>18. Restricted Reserve</b>		
Balance 1 September	<b>74</b>	71
Transfer from Income and Expenditure Account	-	3
Transfer to Capital Account	<b>(74)</b>	-
Balance 31 August	<u>-</u>	<u>74</u>

**19. Capital Development Reserve**

Balance 1 September	<b>2,328</b>	2,359
Transfer from Income and Expenditure Account	<b>2,103</b>	611
Transfer to Expenditure – Student Registration Charge	-	(91)
Transfer to Research Grants and Contracts	<b>(730)</b>	-
Transfer to Expenditure – Self Funding	<b>(287)</b>	(95)
Transfer to Capital Account	<b>(314)</b>	(456)
Balance 31 August	<u><b>3,100</b></u>	<u>2,328</u>

This reserve replaces what was formerly known as the Facilities Reserve. The transfer to Reserve of €2.103m is made up of €2.054m from Student Registration Fes, €41k from interest earned and €8k from sports facilities hire.

**20. Capital Commitments contracted for but not provided**

There are no capital commitments at the end of the period.

**21. Student Maintenance Grants**

Receipts from the Department of Education and Skills (Colleges Section)	<b>4,918</b>	4,714
Payments to Students	<b>(3,904)</b>	(3,800)
Payments to Students (top ups)	<b>(1,014)</b>	(914)
Net Cash Inflow	-	-
Opening Balance	<u>-</u>	<u>-</u>
Closing Balance	<u>-</u>	<u>-</u>

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 co funding provided by the European Social Fund (ESF). These transactions are not included separately in the Income and Expenditure Account.

**22. Employees**

The average number of staff employed by the Institute for the year ended 31 August 2010 was 1,113 (2009: 1,143).

**23. Subsidiary Company**

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 €5,478 while net assets for the year amounted to €60,206.

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 loss for the year of €2,516 while net assets for the year amounted to €15,738.

A company, CIT Foundation Limited, was established by the Institute in July 2007. The Company is dormant and did not trade for the year.

## 24. Institute Canteen and Shop

A company, CIT Student Services Company Limited, operates the Institute canteen and shop. The accounts of the canteen and shop, which do not form part of the accounts of the Institute, are audited by auditors appointed by the Company.

The company was incorporated in December 1994. The canteen and shop had previously been managed by an Institute Committee. The Company took over the assets and liabilities of the canteen and shop with the exception of a sum of €142,847 which has been placed on trust to fund future liabilities arising out of certain contracts of service. The fund, which stood at €180,910 at 31 August 2008, is not recorded in the accounts of either the Institute or the Company. During the year these funds were transferred to the Company and recorded there as a Capital Reserve where the use of the money is restricted to the “furtherance of students welfare by capital investment in facilities” in accordance with the original terms of the trust.

The financial results of the Company for the year ended 30 June 2010 are as follows:

	€
Income	3,494,283
Expenditure	3,388,115
Surplus	106,168
Net Assets	920,882
Capital Reserves	321,669

## 25. Investments

The Institute owns 15% of the ordinary share capital of En-Force Laboratories Limited. The company was formerly a campus company entitled Biological and Environmental Services Unit and was established as a private enterprise on 1st January 2003. These shares have been disposed of by the Institute as at 31 August 2010.

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 effect from 31 May 2010. Cork Institute of Technology hold 25,000 shares in each company and this comprises of 50% shareholding.

## 26. 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 Marine and Natural Resources 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.

## 27. Incremental Entitlements

A High Court claim has been made against the Cork Institute of Technology for alleged incremental entitlements. This case is being defended.

## 28. 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.

## 29. Approval of Financial Statements

The financial statements were approved by the Governing Body on 3 February, 2011.



# 7. Other Information

Cork Institute of Technology

- 7.1 News & Events
- 7.2 Alumni Association
- 7.3 Contact Points

## 7.1 News & Events

1. The Continuing Education Prospectus 2009/10 was officially launched by Mr Maurice Gubbins, Editor, Evening Echo on 26 August 2009.
2. CIT Alumni Association organised an UpSkill event for its graduates and final year students on 28 August 2009. It was an information clinic for those wishing to update their qualifications, add new qualifications or change career direction. This event came about through a CIT graduate contributing ideas as to how the Institute could assist those who may have become unemployed, or who felt they needed to add to their skills to secure their current or future employment prospects.
3. On 7 September 2009, the Minister for Education and Skills, Mr Batt O’Keeffe, T.D. officially launched the CTC and Bord Gáis sponsored **European Energy Saving Award (EESA)** competition 2009/10 for second-level schools in Ireland and the related **Intelligent Use of Energy at School Initiative (IUSES)**.
4. A Culture Night took place on 25 September 2009 at over 50 venues across Cork City. CIT contributed to this event by hosting a series of exhibitions and lectures at Bishopstown Campus, CIT CCAD and CIT CSM.
5. The Institute held a reception on 1 October 2009 in honour of students who received the following awards:
  - CIT Prize for Innovation
  - Siemens Engineers Ireland Innovative Engineer of the Year National Award
  - Cruickshank Most technologically Innovative Product €7,500 National Award
  - Enterprise Ireland/Invest Northern Ireland Solving Problems for Industry €7,500 National Award
  - Enterprise Ireland/Invest Northern Ireland Academic Award
6. CIT is now a fully approved ITEC Centre (Irish Training and Education Centre) for the delivery of both holistic and sports massage.
7. The Careers and Opportunities Fair 2009 took place on 6 October 2009 in the Student Centre, CIT. The Fair consisted of 36 stands booked by companies, information agencies, volunteering organisations and a new addition to the Fair was the presence of a number of higher education institutions offering postgraduate opportunities for 2010-11 academic year.
 

The President presented Paul Walsh, a final year Mechanical Engineering student with the Inaugural Abbott Ireland Intern Bursary at the Fair.
8. The Minister for Education and Skills, Mr Batt O’Keeffe, T.D. attended the Institute for signing of the Tyco Contract which took place on 16 October 2009. Also present were Dr Brendan J. Murphy, President, CIT and Mr Donal Sullivan, Managing Director, Tyco Sensormatic Electronics. The acquisition of the 7.4 acre site and building will allow CIT to transfer their apprentices from rented accommodation across the city back to the main CIT Campus in Bishopstown.
9. The 10th Fitter/Turner Awards Ceremony was held in the Institute on 22 October 2009. It consisted of awards to a number of apprentices at Phase 4 and Phase 6 in Fitting and also an award to the “Best Employer” at both phases. This is to honour the employers of the overall winners at both levels because they play no small part in selecting and motivating these apprentices. Avoncourt Packaging Ltd., Ballycurreen Industrial Estate, Cork, was awarded “Best Employer Phase 4” and Pfizer Biotechnology, Ringaskiddy, Co Cork, was awarded “Best Employer Phase 6.”
10. The CIT CSM Conferings took place on 2 November 2009. A total of 21 students were conferred with the Bachelor of Music (Honours) and 10 students conferred with Master of Arts in Music.
11. The first Visiting Speaker Series for this academic year in the Department of Social & General Studies took place on 3 November 2009. The Guest Speaker was Dr Kieran Allen of UCD and the title of his topic was “Ireland’s Economic Crash.”
12. The President welcomed the Institute of Guidance Counsellors to the Institute on 5 November 2009. They received a number of presentations from staff around the availability of new courses and developments. Many of the Guidance Counsellors are dealing with students at second-level and Post Leaving Certificate level, many of whom will be applying through the CAO by 1 February.
13. On 6 November 2009, CIT co-hosted a conference exploring “The Changing Face of the Pharmaceutical Industry”, in association with Cork County Council and UCC in Cork County Hall. The conference brought together national and international industry figures, academics, policymakers, local government and State agencies. Its purpose was to increase understanding of new business models that are emerging in this sector and to suggest strategies to consolidate and grow the sector that is responsible for a large percentage of the country’s exports.
14. The Minister for Education and Skills, Mr Batt O’Keeffe, T.D. attended the reception and presentation held on 9 November 2009 in the Institute to mark the achievements of the Irish World Skills Team who finished second in the World at the 40th World Skills Competition in Calgary, Canada. This is the highest result ever achieved

by an Irish team since becoming a member over fifty years ago. 950 competitors competed in four days of competition in forty-eight skill areas. Ireland's team of eleven competitors achieved great success winning three gold medals, two bronze and five medallions of excellence. Five of the team were from CIT and these students obtained one Gold Medal, one Bronze Medal, a 4th place and a Medallion of Excellence.

15. The Faculty of Engineering & Science Annual Science Awards Ceremony for 2009 took place on 11 November 2009.
16. The Faculty of Engineering & Science and CIT CCAD Conferring of Degrees and Other Awards took place on 12 November 2009 in the Bishopstown Campus. There were four conferring sessions and 1,107 graduands obtained their parchments in the Faculty of Engineering & Science and 137 in CIT CCAD.  
  
The following joint University of Applied Sciences, Darmstadt, HETAC and CIT awards were conferred on students:
  - Bachelor of Arts (Honours) in Multimedia and
  - Master of Arts (Media Design)
17. The Faculty of Business & Humanities Conferring of Degrees and Other Awards took place on 13 November 2009 in the Bishopstown Campus. There were four conferring sessions and a total of 1,186 graduands obtained their parchments.
18. The Faculty of Engineering & Science Annual Engineering Awards Ceremony for 2009 took place on Thursday 26 November 2009.
19. A decade of collaboration between CIT and UCC was celebrated on 30 November 2009 by the President of CIT, Dr Brendan J. Murphy and the President of UCC, Dr Michael Murphy. A Memorandum of Co-operation was signed in the presence of the Minister for Education and Skills, Mr Batt O'Keeffe, T.D., at a special ceremony in Cork. The extensive co-operation between both institutions over the past ten years has spearheaded the drive in Ireland for greater cross-fertilization in the higher education sector.
20. The Presentation of the Institute's Sports Bursaries & Scholarships took place on 1 December 2009. A total of eighty-four bursaries were presented to athletes from seventeen different sports. The bursaries and scholarships are a reflection of CIT's commitment to the development of a comprehensive sporting policy and are awarded to students who display high achievement levels, commitment, dedication and loyalty to their chosen sport

21. The Launch of the Report: Recognition of Prior Learning – a Focus on Practice took place in CIT on 7 December 2009. The Report was developed by the Education in Employment Strategic Innovation Fund Project and was launched by the Minister for Education and Skills, Mr Batt O'Keeffe, T.D. It represented a significant step forward as it was a collaborative publication based on contributions from nine different HEIs comprising of Universities and Institutes of Technology (IoTs).
22. CIT Rubicon Centre celebrated Global Incubation Day on 8 December 2009 by hosting an event which involved a selection of Rubicon clients sharing their entrepreneurial stories and an open floor question and answer session.
23. A report based on the learning needs in specific employment sectors was launched by Mr John Mullins, Chief Executive, Bord Gáis at the Institute on 15 December 2009. The report is the work of the Roadmap for Employment – Academic Partnerships (REAP) team and is funded by the HEA's Strategic Innovation Fund. The REAP project is led by CIT and comprises of five other IoTs and two Universities.
24. The President, the Registrar & Vice President for Academic Affairs and the Head of CIT CCAD attended the signing of an Amendment to the Consortium Agreement on 15 January 2010, between the University of Applied Sciences, Darmstadt and CIT for the purpose of making joint awards in
  - (i) Bachelor of Arts (Hons) in Multimedia
  - (ii) Bachelor of Arts in Digital Media
  - (iii) Master of Arts in Media Design
  - (iv) Master of Arts in Media Direction

Meetings also took place in relation to future cooperation between the Institute and the University of Applied Sciences, Darmstadt.
25. On 17 January 2010, CIT formally took possession of the new NIMBUS Centre for Embedded Systems Research and, on 16 March, sixty-five researchers and students relocated from diverse locations in the Institute to the NIMBUS building. Funded through the HEA Programme for Research in Third-Level Institutions (PRTL) in 2007, NIMBUS is the first building nationally to be completed in the 4th cycle of PRTL funding and reflects very successful collaboration and project management by the Institute's Development Office, the architects RKD, building contractors Walls, and the team of researchers for whom the building was designed. In a time of financial constraint, it also reflects well on the team that the project was completed on time and within budget.

26. A CIT delegation accepted an invitation from the University of Pune (UoP) to participate in a major bilateral research and innovation colloquium in India on 18 and 19 January 2010. The colloquium entitled "Collaboration in Science and Technology" consisted of a series of workshops, research presentations, lectures, laboratory visits and industry meetings with counterparts from the UoP to identify opportunities of mutual benefit to both institutions. The CIT delegation were led by the Irish Ambassador to India, His Excellency, Mr Ken Thompson.
27. Former CIT CSM student, **Fiona Kelly** won the Bernstein Prize in the Juilliard School in New York. She received an outstanding review from the New York Times. Ms Kelly is currently pursuing a Masters Degree at the Juilliard School studying with Robert Langevin. She performed the BERNSTEIN Halil, Nocturne for Flute and Orchestra on 22 January 2010 as part of the FOCUS 2010 series.
28. The Institute received notification that the current BT Young Scientist of the Year, **Richard O'Shea** competed in the CIT SciFest in late April 2009 where he won two first placed prizes in the Technology category and Sensors category.
29. In the fourth year of a unique cooperation between the Departments of Electronic Engineering, CIT and UCC, forty-three Postgraduate Diploma in Education student teachers completed a six week introductory course to electronics. The training programme is based on the "Exploring Electronics" Transition Year Module developed at CIT with significant backing from the industry and is aimed at de-mystifying electronics in the second-level classroom. The teachers were presented with certificates of achievement from the Department of Electronic Engineering in CIT and a hardware kit to support the use of the module in their future schools.
30. The launch of the joint venture between NMCIS and the Gulf Agency Company (GAC) Training and Service Solutions (GTSS) took place on 11 February 2010 in the NMCI. The joint venture will focus on delivering a comprehensive portfolio of training courses for both seafarers and shore-based personnel.
31. Conferings at the NMCI took place on 19 February 2010. Irish Naval Service students who successfully completed the Higher Certificate in Arts in Leadership, Management & Naval Studies were for the first time conferred with their award.
32. A news piece on CIT's vaccine work was published on the Health Research Board web site on 4 March 2010. Dr Roy Sleator, a HRB funded researcher at CIT and Principal Investigator at the Alimentary Pharmabiotic Centre, and his team have developed a very promising new approach to tackle *Clostridium difficile* (C.difficile), an antibiotic resistant bacteria. Their research involves using one type of bacteria to kill another.
33. As a follow-up to a recent meeting with the Indian Ambassador in Dublin, the Deputy Ambassador, Mr D. Ramamoorthy visited the President on 5 March 2010. The purpose of his visit was to establish relationships with CIT on behalf of the Government of India. Mr Ramamoorthy is in charge of economic, commercial and education affairs.
34. Mr Billy Kelleher, T.D., Minister for Trade & Commerce visited the Rubicon Centre on 8 March 2010. His schedule for the visit was as follows:
- CIT Overview
  - Rubicon Centre
  - Genesis Enterprise Programme
  - CAPP Centre tour and presentation
  - MEDIC Centre tour and presentation
  - TEC Centre Overview and tour of NIMBUS
  - Met the President of the Institute
35. On 9 March 2010, the fifth annual Faculty of Business and Humanities Awards ceremony took place in the Tourism & Hospitality building, in honour of CIT's highest achieving Business and Humanities graduates for 2009. This event was established to celebrate the achievements of its outstanding students and to acknowledge the contribution of many others who supported them.
36. The Department of Tourism & Hospitality was awarded the GOLD Green Hospitality Award (GHA) which was presented on 11 March 2010. CIT is proud of the achievements of the GHA Programme which was developed through the Clean Technology Centre in conjunction with partners Hospitality Solution Consulting since 2004. The GHA now operates on a national scale, is recognised as the National Environmental certification scheme for the Hospitality sector and has 170 members which include hotels, contract caterers, restaurants and bar restaurants.
37. A function to honour staff who retired from 1 September 2007 to 31 December 2008 took place in the Institute on 12 March 2010.
38. Chapter 14 of the published book "Education and Social Change" describes a case study of the Institute's internationally accredited Honours Degree in Mechanical Engineering (DME) course. This award-winning course has run for many years in the Department of Mechanical Engineering and the chapter discusses a method for the inclusion of value systems into the course indicating how the technique can be generalised to other courses.
39. On 19 March 2010, Entrepreneurs showcased their businesses during the CIT Prize for Innovation Exhibition where a total of €10,000 was awarded to the winning entries. The County and City Enterprise Boards sponsored the competition and in addition to the cash prizes, a perpetual cup will be displayed in the Department of Mechanical Engineering for the next twelve months.

40. The Minister for Education and Skills, Mr Batt O’Keeffe, T.D. officially opened the new Access Service on 22 March 2010 in the Student Centre, Bishopstown Campus.

CIT Access Service undertook a comprehensive strategic planning exercise from October 2009 to February 2010. This together with a move into a new location within the Student Centre provided it with the opportunity to formally launch the Access Service to students and stakeholders. The Access Service will actively ensure widened participation to CIT among under-represented groups. The Service will lead the way in high quality, professional and responsive access provision. This will be achieved through a strong commitment to education and social inclusion principles and by working in partnership with all key stakeholders.

41. Mr Brian Crowley, MEP visited the CIT Rubicon Centre on 26 March 2010. He was given an overview of the Institute including research, business start-up and support activity.

42. An advanced optical inspection system to improve the manufacture of intraocular Lenses has been developed by photonics researchers in CIT’s Centre for Advanced Photonics & Process Analysis (CAPP). Intraocular Lenses, commonly called IOLs, restore the sight of cataract patients with blindness or impaired vision by replacing the eye’s natural lens during surgery.

March 2010 saw the handover of the developed system from CAPP to Alcon Laboratories Ltd. The CAPP system was installed in Alcon’s Cork facility which manufactures the world’s most implanted IOLs. Having received training in the operation of the system from CAPP researchers, Alcon’s staff were able to begin validation testing of the equipment on their IOL production line. The initial tests have been successful and results have proven the performance of the CAPP technology on the production line.

43. On 29 March 2010, Mr Micheál Martin, T.D., Minister for Foreign Affairs launched seventeen new Irish Companies at the 12th Annual Genesis Enterprise Programme (GEP) 2010 Awards & Showcase, at CIT. The industries that they are pursuing are varied – energy, international services, food, electronics, telecommunications, electronic learning, software applications, ergonomic furniture design and a diving operation. At the end of each year’s Genesis programme, the participating businesses are presented to the public in a showcase exhibition with the achievements of particular businesses in reaching commercial milestones being recognised in an Awards ceremony.
44. The Institute Prizegiving Ceremony took place in the Institute on 26 April 2010. This Annual presentation of Prizes honoured the outstanding graduates of 2009.

45. On 27 April 2010, SciFest 2010 took place in the West Atrium at CIT. SciFest is a local one-day science fair held in third level colleges and open to all second level students. The Scifest Fair included a competition and exhibition of projects, a selection of science talks, science demonstrations in the college laboratories and a prize-giving ceremony. SciFest’s aim is to encourage a love of science through an investigative approach to learning and to provide an opportunity for students to display their scientific discoveries.

46. The 24th Annual Cork, Mechanical, Manufacturing & Biomedical Engineering Exhibition took place on 29 April 2010 in the Nexus Courtyard, Student Centre. It was Ireland’s largest Educational Engineering and Innovation Event with over 170 stands exhibiting. The 2010 Exhibition Theme was “Sustainability in Engineering – Education and Research”. Mr Eamon Ryan, T.D., Minister for Communications, Energy and Natural Resources and Mr Martin Lowery, President Elect, Engineers Ireland, both attended and addressed the exhibition audience in a presentation ceremony for graduates of outstanding achievement.

47. The Institute hosted a reception to honour Ms Xiao Fang Zhang, PhD student who was the recipient of a European Laureate for Innovation for her work on the development of a Bubble Extractor for Intravenous Infusion at Innovact 2010 which took place in France.

The Chinese Ambassador, His Excellency, Ambassador Liu Biwei attended the reception which took place on 7 May 2010. Ms Zhang, from Dalian City, has been a student in CIT since 2004.

48. The Annual Institute Sports Awards 2010 took place on 11 May 2010. The following awards were presented on the day:

- Nine Individual Awards
- Nine Special Achievement Awards
- Fresher of the Year Award
- Club of the Year Award
- Club of the Year Runners Up

49. A delegation from Jawaharlal Nehru Technological University Hyderabad (JNTUH), India, commenced a two day visit at the Institute on 17 May 2010. The delegation met with the Senior Staff with a view to looking at joint programme development and/or establishing arrangements which will facilitate their graduates in attending programmes in CIT.

50. The opening of the CCAE Exhibition and Prize-Giving Ceremony took place on 28 May 2010.

51. Congratulations were extended to the Student Services Company on becoming the first third-level Canteen to receive the Green Hospitality Award which was presented on 4 June 2010.

52. On 4 June 2010, the NMCI through its joint venture partnership with SEFtec (SEFtec NMCI Offshore Ltd) became an OPITO approved training centre. It secured accreditation following a week long external audit of the facilities, management systems and course delivery.
53. The official opening of the Spectator Stand at the Institute's Sports Complex, Bishopstown Campus took place on 4 June 2010. The opening was performed by the Minister for Enterprise, Trade and Innovation, Mr Batt O'Keeffe, T.D.
54. The European Commission has informed CIT/Tyndall that they will enter into negotiations to fund the Marie Curie Initial Training network, Postgraduate Research on Photonics as an Enabling Technology (PROPHET) that was jointly submitted by CIT/Tyndall as a joint research unit with Tyndall the lead beneficiary.
55. A documentary on the closure of the Beamish & Crawford Brewery, Cork entitled "My Beamish Boy" was screened on RTE 1 on 7 June 2010. The documentary was directed by CIT CCAD graduate, Mike Hannon with the music produced by Johnny McCarthy, Cormac McCarthy and Hugh McCarthy from CIT CSM.
56. The Institute hosted a reception on 11 June 2010 to welcome Prof Greg Boyer who has commenced an eight month period of research in the Chemistry Department, CIT. From New York's Lake Champlain to Lake Taihu in China, Dr Boyer has been around the globe researching, monitoring and analysing algae blooms. He is an accomplished researcher and holder of a prestigious Science Foundation Ireland Walton Fellowship.
57. The Conferring of Degrees took place on 17 June 2010 in the NMCI. For the first time in the history of the Irish Naval Service, a full Level 7, Bachelor of Arts in Leadership, Management & Naval Studies was conferred on non-commissioned officers in recognition of their completion of the Naval Service Senior NCOs course and CIT modules.
58. The Award Ceremony for the National Skills Competition 2010 took place in the Institute on 25 June 2010. It was attended by the Lord Mayor of Cork, Cllr Michael O'Connell and the Minister for Enterprise, Trade and Innovation, Mr Batt O'Keeffe, T.D.
59. CIT's excellently maintained sports grounds played host to numerous competitions throughout the 2009/2010 academic year. While also catering for training for various intercounty teams including the Cork Ladies football teams from under-age to senior level, Cork Senior and Minor camogies, Cork Minor hurlers and footballers and the Cork U21 hurlers, it was also the home ground for Cork Admirals Flag Football games. It also had the honour of successfully hosting the South Munster Schools, Munster Schools, the All-Ireland Schools Cross country, as well as the intervarsities Cross Country and the Umbro Cup in soccer.

## 7.2 Alumni Association (CITAA)

The CIT Alumni Association (CITAA) 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 graduates with the Institute is vital to ensure CIT's future success in delivering Ireland's knowledge-based economy. The CITAA has approximately 14,000 members. The database holds details of graduates from all campuses, at all levels and from all disciplines.

Recent advances in technology have enabled graduates to engage with CIT and with former classmates. The creation of social and professional forums such as Facebook and LinkedIn supports graduates to reconnect with CIT and one another.

The CIT Alumni Association has now set up the following online networks:

- "CIT Alumni Association Facebook"
- "CIT Alumni LinkedIn" or <http://ie.linkedin.com/in/citaa>
- "CIT Alumni Twitter" or <https://twitter.com/CITAlumni>

The Learning City magazine is circulated once a year to all registered alumni and the CIT Alumni Association (CITAA) section focuses on graduate news and the latest developments with the association. Registered graduates also receive an E-News from the Association. Graduates are encouraged to keep their contact details current through email, website, social networking sites or direct contact with the CITAA.

CIT provides all alumni with free members of the CIT Alumni Association (CITAA). A wide range of benefits, services, and events are on offer to registered members.

An Alumni Association Committee consists of graduates and staff who have dedicated themselves to serve on the CITAA Committee to advise the Association and the Institute on how to best engage with our Alumni and to further develop the Association.

### Events 2009/2010

- Alumni Concert at the CIT CSM, 5 February 2010
- CIT UpSkill, 26 February 2010
- CIT Alumni Golf Classic, 23 April 2010

## 7.3 Contact Points

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**Note:**

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