27th Annual Cork Mechanical, Manufacturing & Biomedical Engineering Exhibition



Ireland's Largest Educational
Engineering and Innovation Event



240 Stands in Total in 2013 Event

Thursday April 25th 2013
Nexus Courtyard, Student Centre, Cork Institute of Technology













Design, Innovation and Ethical Engineering

2013 Exhibition Theme

CIT Engineering First in Europe - First in Ireland - First in Innovation

Thursday April 25th 2.00 p.m. to 9.00 p.m. Admission Free Venue: Nexus Courtyard, Student Centre, Cork Institute of Technology





No.	Title of Stand	Industrial Partner
Stand 1	CIT Professionally Accredited Engineering Degrees First in Europe - First in Ireland - First in Innovation	Centrepiece Exhibit 1
Stand	Bachelor of Engineering (Honours) in	Centrepiece Exhibit 2
2	Mechanical Engineering	First in Europe - First in Ireland
	International / National Achievements	First in Innovation
3.	Femoral Implant Process Automation	Zimmer Orthopaedics
4.	Vision Enhancement Device Development	Start-Up Innovation Product Development
5.	Rugby Boot Pressure Distribution Measurement and Analysis	Munster Rugby
6.	Wheelchair Aid Design and Development	Start-Up Innovation Product Development
7.	Inertion of Explosive Atmospheres Investigation	Pilz
8.	Design of Turbine Transmission for use in Oscillating Water Column	Research and Development
9.	Design, Development and Testing of a Vial Transfer System from Class 100 Standard Sterile Area to Unclassified Areas	MSD Schering Plough
10.	Green Boat Analysis and Design	Research and Development
11.	GTA Welding Single Crystal Ni-Superalloy Materials Investigation	PAS Technologies
12.	Design and Development of a Buoyancy Control System for Tidal Measurement Device	Research and Development
13.	Design of fire extinguishing system	The Naval Service
14.	Wind Tunnel Development	Research and Development
15.	Process Improvement And Static Analysis Of Thermoforming Machine	Astellas Ireland
16.	Design and Assembly of World Skills Championships Rig	Research and Development
17.	Investigation of Cutting of PVC Foam	Free Foam Plastics
18.	A Recumbent Touring Bike Design	Research and Development
19.	Establish the link between the MgSt V Grade material quality and QC sample failures	Astellas Pharma
20.	Analysis of Wells Turbine with Self-Pitching blades	Research and Development
21.	Simulation of V5 engine	CIT Engine Development Centre
22.	Tidal Flow Measurement Instrumentation Investigation	Research and Development
23.	Stove Installation Device Design	Start-Up Innovation Product Development
24.	Heat Generation in Drilling Hard Dental Ceramics	Research and Development
25.	Balancing and Vibration Optimisation of V5 engine	CIT Engine Development Centre
26.	Analysis of Academic Block Building Performance	Cork Institute of Technology
27.	Engine Cylinder Capacity Measurement	CIT Engine Development Centre
28.	Small Scale Hydro Assessment and Design	Research and Development
29.	Redesign and Analysis of Helical Spring Laboratory Apparatus	Research and Development
30.	Compressed Air Utilisation - Coolant for Machining PE Plastics	Research and Development
31.	Identification of Physical Ranges of Human Effort - Control System Design for an Electric Drive Pedal Assisted Bicycle	Research and Development
32.	Alternative Guitar Design and Manufacture Method	Research and Development
Stand 33	Bachelor of Engineering (Honours) in Biomedical Engineering	Centrepiece Exhibit 3
Stand		Confusnissa Eukikit 4
Stand 34	Medical Engineering Design and Innovation Centre	Centrepiece Exhibit 4
J 1	(MEDIC) – Cork Institute of Technology Enterprise Ireland Applied Research Enhancement Centre	
35.	Scrum Optimisation through Biomechanics	Munster Rugby
36.	Development of a Baby Feed Simulator	Research and Development
37.	Microfluidic Diagnostic Platform Development	Radisons Diagnostics & CAPPA
38.	Light Measurement Endoscope	Research and Development
39.	Development of Ear Protector for Hurling Helmet	Mycro Sports
40.	Sensor System Development for Para Rowers	Research and Development
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No.	Title of Stand	Industrial Partner
41.	Analysis and Indexing of Rugby Training Exercises	Munster Rugby
42.	Optimum Method for Balloon Catheter Lifting Inspection	Teleflex
43.	Design of Safe Treadmill for Visually Impaired	Research and Development
44.	Boccia Paralympics Ball Manipulation	Jack Cronin, Paralympic Boccia Gold Medalist
45.	Analysis of Orthopaedic Drill Design & Drilling Parameters	Research and Development
46.	Patient Tailored Anatomical Model of Male Urethra	Teleflex
47.	Development of a Sterilisation Unit for Medical Gas Cylinders	Research and Development
48.	Standardisation of Wafer Assembly Unit	Alcon Ireland
49.	Establishing Specifications for the Go-Games Sliotars	Research and Development
50.	Development of Hurley Hand Grip for Wet Conditions	Mycro Sports
51.	Design of a Fully Adjustable Size Bike	Research and Development
52.	3D Gym Tracking	Munster Rugby
53.	DMA Analysis of Dental Restorative Materials	Research and Development
54.	Bone Drill Depth Analysis	MEDIC
55.	Design & Development of LabVIEW Biomedical Toolkit Labs	Research and Development
56.	Design of Alternative to Hurley Metal Band	Research and Development
57.	Static/Dynamic Bike Frame Test Rig Design	Research and Development
Stand 59	Bachelor of Engineering (Honours) in	Centrepiece Exhibit 6
39	Chemical and Biopharmaceutical Engineering	
60.	Design Modification of Bench Scale Membrane Test Cell System	Irish National Centre for Membrane Technology
61.	Bench Scale Adsorption of Oxygen from an Oxygen-Helium Gas Mixture	Research and Development
62.	Pilot Scale Studies: Reverse Osmosis	Irish National Centre for Membrane Technology
63.	Review the Quality of Environmental Impact Statements (EISs) in Ireland, with Particular Reference to the Renewable Energy Sector	Research and Development
64.	Organic Solvent Nanofiltration	Irish National Centre for Membrane Technology
65.	Sensitivity Assessment of the INTRAWASTE Model for the Carbon Foot-Printing of Waste Management Options	Research and Development
66.	Cell Harvesting	Irish National Centre for Membrane Technology
67.	Brewing Studies	Research and Development
68.	Solvent Recovery Assessment for Potential High Volume Commercial Product	Eli Lilly
69.	Bench Scale Waste Water Treatment Plant: Design, Build and Commissioning	Research and Development
70.	Development and Feasibility Analysis of Solvent Recovery from a Novel Pharmaceutical Compound	MSD Schering Plough
71.	Bioreactor Utilities	Research and Development
72.	Steam Generation: Performance & Control Analysis	GlaxoSmithKline
73.	Rheological Analysis of Xanthan Gum Fermentation Broth	Research and Development
74.	Design and Construction of a new Plug Flow Reactor	Research and Development
Stand	CIT Innovative Product Development Laboratories	Centrepiece Exhibit 8
76.	(1)Engineers Ireland Excellence Awards "Best in Class" Inaugural National Education Award	Bachelor of Engineering (Honours) in Mechanical / Biomedical Engineering
	(2) Enterprise Ireland / Invest Northern Ireland Academic Innovation Award	First in Europe - First in Ireland First in Innovation

No	Title of Stand	Industrial Partner
No. 77.	RST TM Sport Equipment Design and Development	Multi-Discipline Start-Up Innovation Team
78.	Haemogenics TM Innovative Product Design and Development	
78. 79.		Multi-Discipline Start-Up Innovation Team
		Multi-Discipline Start-Up Innovation Team
80.	AH Technology TM Animal Healthcare Device Design and Development	Multi-Discipline Start-Up Innovation Team
81.	Porti-Med TM Medical Device for Developing Countries	Multi-Discipline Start-Up Innovation Team
82.	Solasol TM Electronic Device Development	Multi-Discipline Start-Up Innovation Team
83.	123 Fitness TM Sports Training Device Development	Multi-Discipline Start-Up Innovation Team
84.	Sweet Sounding Electrics TM Electronic Device Development	Multi-Discipline Start-Up Innovation Team
85.	WSA TM Sports Safety Device Development	Multi-Discipline Start-Up Innovation Team
Stand 86.	Centre for Advanced Manufacturing and Management Systems (CAMMS)	Centrepiece Exhibit 9
Stand	Bachelor of Engineering in Mechanical	Centrepiece Exhibit 10
87.	Engineering Level 7	Centreplece Exhibit 10
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88.	No.8 Trainer Design and Development	Munster Rugby
89.	Lineout Training Aid (Dual-Trainer) Design and Development	Munster Rugby
90.	Lineout Training Aid (Uni-Trainer) Design and Development	Munster Rugby
91.	Eccentric Loading Trainer Design and Development	Research and Development
92.	Live Scrum Force Measurement	Research and Development
93.	Solar Tracking Development	Research and Development
94.	Roadbump Kinetic Energy Recovery System Development	Research and Development
95.	Automated Floodgate System Design and Development	Research and Development
96.	Round Bale Ejection Rotation System Development	Research and Development
97.	Human Mapping Investigation	Research and Development
98.	Adaption of Cement Mixer for use as Soil Grader	Research and Development
99.	V5 for Motorsport	CIT Engine Development Centre
100.	Walking Aid Design and Development	Research and Development
101.	Hydraulic Equine Tendon Support Testing	Dalmar Ireland
102.	Servo Motor Drive Design and Development	Research and Development
103.	Gantry Crane Control Design and Development	Research and Development
104.	Transfer Unit for Automation Rigs Design and Development	Research and Development
Stand		Centrepiece Exhibit 11
105.	Bachelor of Engineering in Biomedical	Centrepiece Exhibit 11
	Engineering Level 7	
106.	Knee/Hip Exerciser Design and Development	Research and Development
107.	Wobble Board Design and Development	Research and Development
108.	Patient Raiser Design and Development	Research and Development
109.	Clean Room Modelling	Research and Development
Stand 111	Bachelor of Science in Advanced Manufacturing Technology Honours Level 8	Centrepiece Exhibit 13
112.	Investigation of the Viability of using Waste Oil for Diesel Cars	Research and Development
113.	Analysis of the Design for Manufacturability and Modular Expansion	Edpac
114.	ABB Cell : Pencil Cutting Station Design and Development	Research and Development
115.	HANS Device and Roll Cage Analysis and Optimisation	Research and Development
116.	ABB Cell: QC Station Design and Development	Research and Development
117.	Infra-red Heater Activation by Microwaves	Ceramicx
118.	Design of a Chair Assist	Research and Development
119.	Analysis of Vertical Shaft Impacter	John A Woods
120.	Design of Notes holder CUMH	Cork University Maternity Hospital
121.	Rig design for Ad placement on Trucks	Drivebyads
122.	Thermal and Manufacturability Analysis of Materials	Thermosafe
123.	Central De-Trashing System Design	EMC
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No.	Title of Stand	Industrial Partner
Stand	Bachelor of Science in Process Plant Technology	Centrepiece Exhibit 14
124	Honours Level 8	
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125.	Clean Room Air Flow Optimization	Janssen Pharmaceutical
126.	ABB Cell: Robot Studio development & Gripper design	Research and Development
127.	Development of Scheduling Systems for Machining Centre	MDT
128.	Keg Lifting and Stacking Device Design	Research and Development
129.	Tool Mount Design	Ceramicx
130.	Angle Support Boot Analysis and Design	Research and Development
131.	Plant1 Vacuum System Optimization	Janssen Pharmaceutical
132.	Basketball Training Aid Design	Research and Development
133.	Automated Load/Unload and Workshop Layout	MDT
134.	Plough Tip holder Analysis and Redesign	Research and Development
135.	Analysis of Recyclability of Plaster Board	WRS
136.	Remote Adjustment of Lights on Agri Machinery	Research and Development
137.	Compressor Heat Recovery	SRT
138.	Analysis of Bulk Tanks Energy Efficiency	Research and Development
139.	Zero 20-20 Building Inventor Development	Research and Development
140.	ProFiBus Upgrade to FMS Rig	Research and Development
141.	Steam Plant Heat Exchanger Analysis	Research and Development
142.	Building Energy Usage Analysis and Optimisation	Boston Scientific
143.	Bicycle Frame Stiffness Test Rig Design	Research and Development
144.	Design of Jar Opener Aid	Research and Development
145.	Analysis of Retrofitting of Geothermal Heating	Research and Development
146.	Risk-based Inspection of Mechanical Equipment in a Process Plant Manufacturing Active Pharmaceutical Ingredients (APIs)	Research and Development
1.47	by Chemical Synthesis	D 1 1D 1
147.	Analysis and Redesign of Manual Metal Arc Rod Holder	Research and Development
148.	Natural Convection Solar Panel Design	Research and Development
149.	Bicycle Analysis and Re-Design	Research and Development
150.	Home Automation Rig development	Research and Development
151.	ABB Cell: Load/Unload Station Design	Research and Development
152.	Game Console Analysis and Design	Research and Development
153.	Design of Workshop Lift	Research and Development
154.	Lifting Aid for Elderly/Infirmed Design and Development	Research and Development
155.	Safety Re-Design of Squat Rack	Research and Development
156.	Refrigeration Heat Recovery Analysis	Research and Development
157.	ABB Cell: Sharpening Station Design and Development	Research and Development
158.	Analysis and Design of Motorized Golf Trolly	Research and Development
Stand 159	Bachelor of Engineering in Building Services Engineering Honours Level 8	Centrepiece Exhibit 15
160.	An Experimental Study on the Performance of Heating Coils under Variable Flow Conditions	Research and Development
161.	Optimisation of Air Source Heat Pump technology – Dynamic Simulation and Analysis of an Operational System	Research and Development
162.	Analysis of Weather Data for Energy Systems Simulation – Development of TRY and DSY Weather Files	Research and Development
163.	Development of Future Weather Files for use in Dynamic Simulation	Research and Development
164.	Enhancement of BMS Reporting Function for CIT Building and Estates Office	Research and Development
165.	Development of an Intermittent Model for the Zero2020 Testbed	Research and Development
166.	Evaluation of the Impact of Environmental Factors on Thermal Comfort in Lecture Rooms	Research and Development

No.	Title of Stand	Industrial Partner
Stand	Bachelor of Engineering Sustainable Energy	Centrepiece Exhibit 17
168	Honours Level 8	
169.	Marine Energy Research - Harnessing Tidal Streams	OpenHydro Technology
170.	Waste Vegetable Oil as a Space Heating Fuel	Research and Development
171.	An Investigation of the Impact of MPPT on Solar PV System performance	Progressive Solar Energy
172.	Sustainable Purification of Water	Research and Development
173.	Feasibility of Combining Solar PV Systems and Electric Boilers for Domestic Applications	Firebird Heating Solutions
174.	District Heating System Design for a Small Town	Research and Development
175.	Analysis of Power Factor and Power Factor Correction	European Union Renewable Energy Systems Ltd Clonmel
176.	Run of River Hydroturbine Design	Research and Development
177.	Measurement and Verification of HVAC Energy Savings	EMC
178.	BREAM assessment of Zero2020 Test Bed and CIT Masterplan	Cork Institute of Technology
179.	Performance Analysis of an Air-Source Heat Pump	Mark Eire
180.	Biodiesel Production from Waste Vegetable Oil (WVO)	Research and Development
181.	Gas Pressure Model Optimisation for the Bord Gais Network Transmission System	Bord Gais Networks
182.	Desiccant Dehumidification	Research and Development
183.	Energy Generation Scheduling and Management	Astellas Ireland
184.	Optimising Power Usage Effectiveness in Data Centres	Research and Development
185.	Feasibility of Biomass Boiler Reintroduction at Johnson & Johnson Facility	Johnson & Johnson
186.	Techno-Economic Feasibility Study of On-site Electrical Generation for Large industrial Applications	Research and Development
187.	Steam Dashboard Design and Development	GlaxoSmithKline
188.	The Potential for the Processing of Waste through the use of Anaerobic Digestion Technology in Ireland	Research and Development
189.	Energy Performance Enhancement of a Public Building	Laois County Council
190.	Wind Farm Design	Research and Development
191.	Thermal and Energy Analysis of a Hotel/Leisure Complex	Radisson Blu Hotel
192.	Implementing ISO 50001 and Energy Efficient Systems	Research and Development
193.	Evaluation of Wind Farm Energy Storage	Research and Development
194.	Investigation of Anaerobic Digestion in Ireland and Bio-Crack Technology increase of Gas Yield	Research and Development
195.	Effect of Incorporating Anaerobic Digestion into the Irish Animal Rendering Industry	Research and Development
196.	Solar Thermal Assisted Air Conditioning	Research and Development
197.	A LEED Study of a Building Retrofit Project - Assessing Sustainability in Low Energy Design and Construction	Research and Development
198.	Analysis of Biogas and CHP Production from Anaerobic Digestion	Research and Development
199.	Wave Energy Resource Evaluation and Profiling	Research and Development
200.	A Technical, Economic and Environmental Feasibility Study into the use of Natural Gas and Bio-methane as a Transport Fuel	Research and Development
201.	Methyl ester produced from Microalgae	Research and Development
202.	The Techno/Economic feasibility of Pumped-Hydro Energy Storage in Ireland	Research and Development
203.	Potential for Miscanthus Production in Ireland	Research and Development
204.	Air Source Heat Pump Analysis	Research and Development
205.	Investigation of CHP and Biogas	Research and Development
206.	Investigation into the Optimisation of Position and Arrangements of Sensors connected to HVAC Systems	Research and Development
207.	Suitability of Co-operative Anaerobic Digester Technology for Agricultural Waste in Ireland Investigation	Research and Development

No.	Title of Stand	Industrial Partner
208.	Modelling of the Operation of an Oscillating Water Column	Research and Development
209.	Sustainability in Business	Research and Development
210.	CHP and Hydrogen Gas	Research and Development
211.	Analysis of Facility Upgrades on Energy Reduction Potential	Clona Dairies
212.	Utilisation of Concentrators for Micro PV Installations	Research and Development
213.	An investigative study of Electrical Energy Storage using Vanadium Redox Flow Batteries	Research and Development
214.	Heat Recovery Ventilation System Analysis	Research and Development
215.	Design Methodology for an Off Grid Solar PV System for Developing Countries	Research and Development
216.	Building Energy Systems	Research and Development
217.	A Study of Energy Performance Parameters for an Energy Management System - Assessing the Financial Feasibility of Energy Reduction Technologies	Research and Development
218.	An Experimental Study of the Performance of Reflective Radiator Panels - Comparison of Current Available Technology	Research and Development
219.	Optimisation of Cooling Systems on Dairy Farms	Research and Development
220.	Investigation of CHP usage in Commercial Buildings	Research and Development
221.	Water Conservation and Rainwater Harvesting	Cork Institute of Technology
222.	Willow Wastewater Treatment Systems combined with Biomass Production	Research and Development
223.	Feasibility study on Anaerobic Digestion of Waste at CIT	Cork Institute of Technology
224.	Evaluation of Domestic Micro-Hydro Systems	Research and Development
225.	Evaluation of Micro-Wind Turbine Systems at Commercial Sites	Research and Development
226.	LED Retrofitting in Industrial Lighting Installations	Research and Development
Stand 228	Engineers Ireland	Centrepiece Exhibit 19
Stand 229	Vintage and Classic Vehicles of Yesteryear Display CIT Mizen to Malin Fund Raiser Drive for Suicide Aware	Centrepiece Exhibit 20
Stand 230 -240	International / National Awards in Engineering Innovation, Design & Entrepreneurship	Centrepiece Exhibit 21



The CIT Staff and Student Mizen to Malin Vintage Car Rally for Suicide Aware supported by MunsterRugby, raising over €17,000 at the most recent rally, proved a very popular stand for CIT Chemical Engineering students, Mai Twomey, Suzanne Creagh, Adeola Odugbose and Marlene Clark at the 2012 Cork Mechanical, Manufacturing and Biomedical Engineering Exhibition



International / National Awards in Engineering Innovation, Design & Entrepreneurship

Recent International Prize-Winners in

Engineering Innovation, Design & Entrepreneurship Innovative Product Development Laboratories include:

One European Laureate of Innovation First Place Award – European Student Innovator of the Year 2012 - European Student Innovation Finals - Innovact Reims France (2012)

One European Science Engineering and Technology Best European Mechanical Engineering Student First Place Babcock Award - SET Finals London UK (2011)

Two Enterprise Ireland / Invest Northern Ireland Think Outside the Box Academic Innovation Awards (2012, 2009)

One European Laureate of Innovation Third Place Award – European Student Innovation Finals - Innovat Reims (2010)

Two Gold Medals Undergraduate Awards of Ireland and Northern Ireland Engineering/Mechanical Sciences (2011, 2010)

Seven First Places and Six Runner Up Finalists in the Institution of Mechanical Engineers Best Medical Engineering and Design and Development of a Biomedical Device Competitions, London (2011, 2010, 2008, 2007, 2006, 2005)

One Global Student Entrepreneur Finalist Award sponsored by the Entrepreneurs' Organisation in conjunction with

Mercedes-Benz Financial at the GSEA Finals in Kansas City, Missouri, USA (2009)

One SOFE Paris Second Place Award - Institution of Mechanical Engineers (2009)

One First and One Second Place in the ISEA International Sports Engineering Competition, London

Two Queen's Silver Jubilee awards for Best Mechanical Engineering Degree Project in Ireland and Britain

One Genius 2000 Award for Best New Invention at the Nuremburg Inventors' Fair

Two Society of Manufacturing Engineering Outstanding Young Engineer Worldwide Awards

Three First Places for Best Published and Presented Paper at the International Manufacturing Conference.

Recent National Prize-Winners in

Engineering Innovation, Design & Entrepreneurship Innovative Product Development Laboratories include:

Nine Engineers Ireland Innovative Engineer of the Year Awards sponsored by Siemens (2012, 2011, 2009, 2008, 2007, 2006, 2005, 2004, 2003)

One GradIreland Graduate Employee of the Year First Place Award Mansion House Dublin (2012)

One NCBI Inclusive Technology Showcase Grand Prize Wood Quay Dublin (2012)

Two MEETA Asset Management and Maintenance National Awards (2011, 2006)

Three Abbott Ireland Intern of the Year Awards (2012, 2011, 2009)

Two Enterprise Ireland / Invest Northern Ireland Academic Innovation Awards (2012, 2009)

One Engineers Ireland Excellence Awards - Inaugural "Best in Class" Engineering Education Award (2011)

One Engineers Ireland Excellence Awards - ESB Award for Outstanding Contribution to Engineering (2011)

One Engineers Ireland Excellence Awards - Chartered Engineer of the Year (2011)

Three Cruickshank Most Technologically Innovative Project First Place €7,500 Award (2009, 2008, 2007)

One Inaugural Enterprise Ireland / Invest Northern Ireland Young Entrepreneur of the Year Solving Problems for Industry €7,500 Award (2009)

Six Enterprise Ireland / Invest Northern Ireland Award of Merit Awards (2012, 2010, 2009, 2008, 2007)

Enterprise Ireland / Invest Northern Ireland Young Entrepreneur of the Year First Place €10,000 Award

Three Enterprise Ireland I.Mech.E Speak Out for Engineering Awards

Two HP Invent Awards for Best Science/Engineering/IT project in Ireland

Three William Eccles Institution of Production Engineers National Awards

Engineering an Innovation Eco-System

















27th Cork Mechanical, Manufacturing and Biomedical Engineering Exhibition

Exhibition Theme 2013:

CIT Engineering

First in Europe - First in Ireland - First in Innovation

Thursday 25th April 2013 - 240 Stands - Ireland's Largest Educational Engineering Event

Engineers Ireland Innovative Student Engineer of the Year 2012 sponsored by Siemens



Winner: Martin Evans Mechanical Engineering Cork Institute of Technology "Design and Development of an Advanced Scrum Machine in conjunction with Munster Rugby'





innovact European Student Innovation Awards innovact Innovact 2012 Reims France European Student Innovator of the Year 2012 First Place and Outright Winner



First Place European Laureate of Innovation 2012 Kieran O'Callaghan VisionRETM "Real Time Interactive Obstacle Detection and Navigation Aid for the Visually Impaired" Cork Institute of Technology Ireland













Graduate Employee of the Year GradIreland 2012 CIT Mechanical Engineering Graduate 2010 Connor Barry (Abbott) wins

Graduate Employee of the Year 2012 at GradIreland Awards, Mansion House, Dublin



INSTITUTE OF TECHNOLOGY

Connor graduated with a First Class Honours Bachelor of Engineering Degree in Mechanical Engineering at Cork Institute of Technology in 2010

On graduation, Conor secured a place on the highly selective Abbott Ireland Professional Development Programme and is currently working on assignment in Columbus, Ohio



CIT Mechanical Engineering Degree - CA0 Code CR108



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ENGINEERS IRELAND Siemens Engineers Ireland - Innovative Student of the Year 2011 First Place National Award MEETA - Asset Managers Association - Student Award 2011







tion of Prosthetic Shoulder Stem Blasting Process"

Croom Precision Medical



2011 European Science Engineering and Technology SET Awards Millennium Hotel London The Babcock Award

European Mechanical Engineering Student of the Year 2011 First Place



First Place Babcock Award - Best European Mechanical Engineering Student 2011: Rian Edman of Cork Institute of Technology Thermodynamic Analysis, Testing and Evaluation of a Concept 6 Stroke Engine

Runners Up Finalists: Benjamin Lindley of the University of Cambridge Waste incineration in a pressurised water reactor Ross Doak of Heriot-Watt University

Design of a spherical mobile robo

Engineers Ireland National Award Chartered Engineer of the Year 2011

First Female Winner of Chartered Engineer of the Year Accolade



Louise Connolly, ESBI, CIT Mechanical Engineering



Graduating from CIT with an honours degree in Mechanical Engineering in 2004, Louise joined ESB International. She is currently a consultant engineer in ESBI Engineering's power plant department and works on Irish and international power plant and gas pipeline projects.

CIT INSTITUTE OF TECHNOLOGY

Design, Innovation and Ethical Engineering

For further information and group bookings, contact: