



UNIVERSITY of LIMERICK
OLLSCOIL LUIMNIGH

Faculty of
Science + Engineering

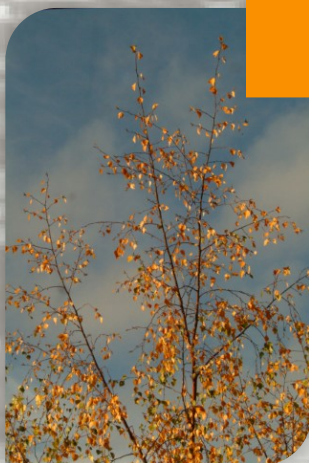
PhD Graduations 2012



Faculty of Science + Engineering

Autumn Conferings

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Winter Conferings

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UNIVERSITY of LIMERICK
OLLSCOIL LUIMNIGH

Autumn Conferings

Canty Donal Brandon

Thesis:	The Impact of Holistic Assessment Using Adaptive Comparative Judgement on Student Learning
Internal Supervisors:	Dr Niall Seery / Dr Pat Phelan
External Examiners:	Prof. Richard Kimbell, University of London, UK Prof. Stephanie Atkinson, University of Sunderland, UK
Chair:	Dr Cathal Heavey

Carey Michelle

Thesis:	Generalised Smoothing in Functional Data Analysis
Internal Supervisors:	Dr Kevin Hayes / Dr Eugene Gath
Internal Examiner:	Dr Ailish Hannigan
External Examiner:	Prof. James Ramsey, University of Ottawa, Canada
Chair:	Dr Mark Burke

Carroll Noel

Thesis:	Service Science: An Empirical Study on the Socio-Technical Dynamics of Public Sector Service Network Innovation
Internal Supervisors:	Dr Ita Richardson / Dr Eoin Whelan
Internal Examiner:	Dr Stephen Kinsella
External Examiner:	Dr Markus Helfert, Dublin City University
Chair:	Dr John Noll

Cashman Andrew Patrick

Thesis:	Design and Optimisation of the Impulse Turbine with an Internal Variable-Pitch Controlled Guide Vane System Using Computational Fluid Dynamics and Experimental Analysis
Internal Supervisor:	Dr Ajit Thakker
Internal Examiner:	Dr Grainne Carroll
External Examiner:	Dr Thirumalaisai Shanmugam Dhanesekaran, ANSYS INC, USA
Chair:	Dr John Jarvis

Collins John Daniel

Thesis:	Age and Gender Related Aspects of Neck-Shoulder Musculoskeletal Disorders
Internal Supervisor:	Dr Leonard O'Sullivan
Internal Examiner:	Dr Susan Coote
External Examiner:	Prof. Jack Dennerlein, Harvard School of Public Health, Boston, USA
Chair:	Dr Cathal Heavey

Dalton Mark

Thesis:	Continuous Flow Digital PCR for Absolute Quantification of Nucleic Acids
Internal Supervisor:	Dr Tara Dalton
Internal Examiner:	Prof. Tony Pembroke
External Examiner:	Prof. Alan Lyons, College of Staten Island and Graduate School, USA
Chair:	Prof. Noel O'Dowd

Faulkner Fiona

Thesis:	An Analysis of Performance in Mathematics for Technology Undergraduates and an Investigation of Teaching Interventions for These Students
Internal Supervisors:	Dr Ailish Hannigan / Dr Olivia Fitzmaurice
Internal Examiner:	Dr Helen Purtill
External Examiner:	Prof. Duncan Lawson, Coventry University, UK
Chair:	Prof. John O'Donoghue

Fernstrom Mikael

Thesis:	Design Exploration in Interactive Sonification
Internal Supervisor:	Prof. Liam Bannon
External Examiner:	Prof. John Bowers, University of London (Goldsmiths)
	Dr Dermot Furlong, Trinity College Dublin
Chair:	Dr Michael English

Gao Xin

Thesis:	Vanadium Redox Flow Batteries for Large-Scale Energy Storage Electrochemistry, Efficiency and Spectroscopic Monitoring
Internal Supervisors:	Prof. Noel Buckley / Prof. Martin J. Leahy
Internal Examiner:	Dr Christophe Silien
External Examiner:	Prof. Petr Vanysek, Northern Illinois University, USA
Chair:	Dr Arousian Arshak

Geaney Hugh

Thesis:	Growth of Silicon and Germanium Nanowires in the Vapour Phase of High Boiling Point Organic Solvents
Internal Supervisor:	Dr Kevin M Ryan
Internal Examiner:	Dr Dmitri Bulushev
External Examiner:	Prof. Gareth Redmond, University College Dublin
Chair:	Dr Peter Davern

Giblin Mary Brigid

Thesis:	Introducing Agile Methods in a Large Software Development Organisation: A Case Study
Internal Supervisor:	Dr Chris Exton
Internal Examiner:	Dr Gabriela Avram
External Examiner:	Prof. Par Agerfalk, Uppsala University, Sweden
Chair:	Dr Eoin Ó Conchuir

Gilmartin Stephen

Thesis:	The Design and Development of CMOS-Compatible Nanobolometers for Infrared Sensing Applications
Internal Supervisors:	Prof. Khalil Arshak / Dr Arousian Arshak
Internal Examiner:	Prof. Noel Buckley
External Examiner:	Prof. Michael Schoning, University of Applied Sciences Aachen, Division Juelich, Germany
Chair:	Dr Donal Heffernan

Golden Treasa Marie

Thesis:
Vegetable

Effects of Catalyst Morphology on the Hydrogenation of Oil

Internal Supervisors:
Internal Examiner:
External Examiner:
Chair:

Dr JJ Leahy / Dr Teresa Curtin
Prof. David O'Beirne
Prof. Elio Santacesaria, University of Naples, Italy
Dr Witold Kwapinski

Harte Imelda

Thesis:
Internal Supervisors:
Internal Examiner:
External Examiner:
Chair:

Development of Mouldable and Resorbable Bone Filler
Prof. Colin Birkinshaw / Dr Eamonn De Barra
Dr JJ Leahy
Prof. David John Wood, Leeds Dental Institute, UK
Prof. Con Hussey

Healy Michael Gerard

Thesis:
Internal Supervisors:
Internal Examiner:
External Examiner:
Chair:

A Novel, Efficient, Scalable and Easy-to-use Cryptographic Key Management Solution for Wireless Sensor Networks
Dr Tom Newe / Prof. Elfed Lewis
Dr Martin Hayes
Dr Emanuel Mihai Popovici, University College Cork
Dr Colin Fitzpatrick



Joseph Shiju Gregory

Thesis:	Interferometric Phase Microscopy Method for Functional Imaging of In-Vitro Live Cells
Internal Supervisor:	Dr David Newport
Internal Examiner:	Dr Tara Dalton
External Examiner:	Prof. Stephane Colin, Universite de Toulouse, France
Chair:	Dr John Jarvis

Kavanagh Edel Patricia

Thesis:	Finite Element Investigation of the Human Mandible Bone: Examination of Bone Fracture, Plate Fixation and Increasing Degrees of Atrophy
Internal Supervisors:	Dr John Jarvis / Prof. Gerard Kearns
Internal Examiner:	Prof. Tim McGloughlin
External Examiner:	Prof. Pankaj Pankaj, Edinburgh University, Scotland
Chair:	Dr Andy Niven

Mattsson Anders Jorgen

Thesis:	Modelling and Automatic Enforcement of Architectural Design Rules
Internal Supervisor:	Prof. Brian Fitzgerald
External Supervisor:	Dr Bjorn Lundell
Internal Examiner:	Dr Jim Buckley
External Examiner:	Prof. Matti Rossi, Aalto University, Finland
Chair:	Dr Gabriela Avram

Mitchell Niall Anthony

Thesis:	Numerical Modelling of Cooling Crystallisation: Process Kinetics to Optimisation
Internal Supervisor:	Dr Patrick Frawley
Internal Examiner:	Dr Philip Griffin
External Examiner:	Prof. Chris Reilly, Loughborough University, UK
Chair:	Dr John Jarvis

O'Grady Michael

Thesis:	Nanoscale Properties of Copper Metallization: Real-Time Stress Measurements during Electrodeposition, In Situ AFM Imaging and Ductility Test Development
Internal Supervisor:	Prof. Noel Buckley
Internal Examiner:	Dr David Corcoran
External Examiner:	Prof. Richard Alkire, University of Illinois, USA
Chair:	Dr George McClelland

O'Murchú Nora Concillio

Thesis:	Designers as Curators, Users as Designers: A Reflective Study of Hacking and Curation to Extend Interaction Design Practice
Internal Supervisor:	Dr Luigina Ciolfi
Internal Examiner:	Dr Marilyn Lennon
External Examiner:	Prof. Jonas Lowgren, Malmo University, Sweden
Chair:	Dr Kerry Hagan

Pican Emmanuel Benoit

Thesis:	Direct Interconnection of Offshore Electricity Generators
Internal Supervisors:	Prof. Martin J. Leahy / Dr Daniel Toal
Internal Examiner:	Dr Colin Fitzpatrick
External Examiner:	Prof. John Ringwood, National University of Ireland, Maynooth
Chair:	Dr JJ Leahy

Quill Nathan Paul

Thesis:	Formation of Nanoporous InP in KOH and KCl: Electrochemistry and Electron Microscopy
Internal Supervisor:	Prof. Noel Buckley
Internal Examiner:	Dr Colm O'Dwyer
External Examiner:	Prof. Arnaud Etcheberry, Universite de Versailles St-Quentin, France
Chair:	Dr David Corcoran

Scharrer Martin Josef

Thesis:	Enhancements for Digital Control of Switch Mode Power Supplies: Bi-Directional Data-Links, State Dependent ADC Encoding and Advanced Digital Pulse Width Modulation Schemes
Internal Supervisors:	Dr Karl Rinne / Dr Mark Halton
Internal Examiner:	Dr Ciaran MacNamee
External Examiner:	Dr Kevin McCarthy, University College Cork
Chair:	Prof. Tom Coffey

Tierney Aine Patricia

Thesis:	Noninvasive Methods of Characterising Local Regional Variations in Aortic Tissue to Advance Aneurysm Rupture Risk Prediction
Internal Supervisors:	Prof. Tim McGloughlin / Dr Anthony Callanan
Internal Examiner:	Prof. Stewart Walsh
External Examiner:	Prof. David Vorp, University of Pittsburg, USA
Chair:	Prof. Michael McCarthy



Velusamy Vijayalakshmi

Thesis:	Design, Development and Characterization of a Handheld Electrochemical Analyzer System in the Perspective of DNA Biosensors for Foodborne Pathogen Detection
Internal Supervisors:	Prof. Khalil Arshak / Dr Catherine Adley
Internal Examiner:	Prof. Tony Pembroke
External Examiner:	Dr Amos Mugweru, Rowan University, USA
Chair:	Dr Donal Heffernan

Walsh John Michael

Thesis:	Design and Analysis of an Impulse Turbine with Variable-Pitch-Controlled Guide Vanes for Wave Energy Power Conversion
Internal Supervisor:	Dr Ajit Thakker
Internal Examiner:	Dr Conor McCarthy
External Examiner:	Dr Richard Cooper, Queens University Belfast
Chair:	Dr John Jarvis

Wen Jiangchuan

Thesis:	Power Saving Approaches for Use with Bluetooth: Modelling and Analysis of New Protocols
Internal Supervisor:	Dr John Nelson
Internal Examiner:	Dr Richard Conway
External Examiner:	Prof. Pietro Manzoni, Universidad Politecnica de Valencia, Spain
Chair:	Dr Martin Hayes

Yazdani Nezhad Hamed

Thesis:	Effect of Prior Deformation on Creep Behaviour of AISI 316H Austenitic Stainless Steels
Internal Supervisor:	Prof. Noel O'Dowd
Internal Examiner:	Dr. Peter Tiernan
External Examiner:	Prof. Feargal Brennan, Cranfield University, UK
Chair:	Prof. Michael Pomeroy





Winter Conferings



Amarandei George

Thesis:	Pattern Formation in Thin Polymer Films
Internal Supervisors:	Dr David Corcoran / Dr Arousian Arshak
External Supervisor:	Dr Colm O'Dwyer
Internal Examiner:	Prof. Philip Moriarty
External Examiner:	Dr Tony Cafolla, Dublin City University
Chair:	Dr George McClelland

Armshaw Patricia Mary

Thesis:	Functional Geromic Analysis of the UV-Inductable 'Cytotoxic' Gene from the ICE R391, an Archetypal Member of the SXT/R391 Family of Integrative Conjugative Elements
Internal Supervisor:	Prof. Tony Pembroke
Internal Examiner:	Dr Jakki Cooney
External Examiner:	Prof. Seamus Fanning, University College Dublin
Chair:	Dr Tewfik Soulimane

Bilauca Mihai

Thesis:	Automatic Table Layout and Formatting
Internal Supervisor:	Dr Patrick Healy
Internal Examiner:	Dr JJ Collins
External Examiner:	Prof. Barry O'Sullivan, University College Cork
Chair:	Dr Norah Power

Confrey Thomas William

Thesis:	An Investigation of Transient Natural Convection in Aircraft Wing Box Compartments
Internal Supervisors:	Dr David Newport / Dr Vanessa Egan
External Supervisor:	Dr Vesna Lacarac
Internal Examiner:	Dr Tara Dalton
External Examiner:	Prof. Roy Doughlas, Queens University Belfast
Chair:	Prof. Tim McGloughlin

Cronin Éanna Sean

Thesis:	Using RFID to Output Reliability Indicators in PC Refurbishment
Internal Supervisor:	Dr Colin Fitzpatrick
Internal Examiner:	Dr Tom Newe
External Examiner:	Dr David Chesmore, University of York
Chair:	Dr Daniel Toal

Cronin Patrick Robert

Thesis:	Incorporation of Nanoparticles of Titanium Dioxide into Thermoplastic Textiles
Internal Supervisors:	Dr Tofail Syed / Dr Peter Tiernan
Internal Examiner:	Prof. Edmond Magner
External Examiner:	Prof. Halina Podbielska, Wroclaw University of Technology
Chair:	Prof. Noel O'Dowd



Devine Mel

Thesis:

Internal Supervisors:

Internal Examiner:

External Examiner:

Chair:

Rolling Optimisation, Stochastic Demand Modelling and Scenario Reduction Applied to the UK Gas Market

Dr John Kinsella / Prof. James Gleeson / Dr David Ramsey

Dr Mark Burke

Prof. Barry O'Sullivan, University College Cork

Dr Alan Hegarty

Deshpande Sadhana

Thesis:

Internal Supervisors:

Internal Examiner:

External Examiner:

Chair:

A Coordination Model for Global Software Development Teams

Dr Ita Richardson / Dr Sarah Beecham

Dr Gabriela Avram

Dr Ban Al-Ani, University of California

Dr Liam Murray

Fitzgerald Brian Gerard

Thesis:

Internal Supervisors:

Internal Examiner:

External Examiner:

Chair:

Evaluation of Policies to Enhance Environmental Sustainability in Small to Medium Sized Irish Settlements

Dr Bernadette O'Regan / Prof. Richard Moles

Prof. Conleth Hussey

Prof. Donald Lyons, University College Cork

Dr Catherine Adley

Gallagher Paul Laurence

Thesis:	Creating Legible Interactive Surfaces for Public Settings
Internal Supervisor:	Prof. Liam Bannon
Internal Examiner:	Dr Chris Exton
External Examiner:	Dr Mike Fraser, University of Bristol
Chair:	Dr Jim Buckley

Gilmartin Stephen

Thesis:	<i>The Design and Development of CMOS-Compatible Nanobolometers for Infrared Sensing Applications</i>
Internal Supervisors:	Prof. Khalil Arshak / Dr Arousian Arshak
Internal Examiner:	Prof. Noel Buckley
External Examiner:	Prof. Michael Schoning, Aachen University of Applied Sciences, Juelich, Germany
Chair:	Dr Donal Heffernan

Johnson Michael John

Thesis:	The Design and Validation of a Low-Cost Mobile Robotic Testbed Supporting Path Planning, Team Building and String Stability Research
Internal Supervisor:	Dr Martin Hayes
Internal Examiner:	Dr Ciaran MacNamee
External Examiner:	Dr Mauro Dragone, University College Dublin
Chair:	Dr Tom Newe

Kelly Emma Marie

Thesis:	Thermal Management of Portable Biomedical Vaporisers
Internal Supervisor:	Dr Ronan Grimes
Internal Examiner:	Dr Patrick Frawley
External Examiner:	Dr Giorgio Baldinelli, Universita degli Studi di Perugia, Italy
Chair:	Dr Andy Niven

Lane Stephen

Thesis:	SOAdapt: A Process Reference Model for Developing Adaptable Service-Based Applications
Internal Supervisor:	Dr Ita Richardson
Internal Examiner:	Dr Nour Ali
External Examiner:	Prof. Hausi Muller, University of Victoria, Canada
Chair:	Dr Nikola Nikolov

Lyons Joseph Anthony

Thesis:	Towards the Rational Design of Lipids for Use in In Meso Crystallisation of Membrane Proteins: A Case Study with a Cytochrome Oxidase and a G-protein Coupled Receptor
Internal Supervisors:	Prof. Martin Caffrey / Dr Tewfik Soulimane
Internal Examiner:	Prof. Tony Pembroke
External Examiner:	Prof. Shelagh Ferguson-Miller, Michigan State University,
Chair:	Prof. Michael H. Hayes

Madrecka Aleksandra

Thesis:
Protector

Internal Supervisor:
Internal Examiner:
External Examiner:
Chair:

Biomechanical and Computational Investigation of the Hip

Design and Function

Prof. Tim McGloughlin
Dr David Newport
Prof. Michael Gilchrist, University College Dublin
Dr John Jarvis

Meere Damien John

Thesis:
Contextualised

Internal Supervisors:
Internal Examiner:
External Examiner:
Chair:

An InfoStation-Based Multi-Agent System Supporting

and Personalised mLearning Service Delivery

Dr Ivan Ganchev / Dr Máirtín Ó Droma
Dr Nikola Nikolov
Prof. Ioan Salomie, Technical University of Cluj-Napoca, Romania
Dr Colin Fitzpatrick

Melligan Fergus

Thesis:

Internal Supervisors:
Internal Examiner:
External Examiner:

Chair:

Pyrolysis of Biomass and Biorefinery Residual Materials for Production of Advanced Biofuels

Dr JJ Leahy / Dr Witold Kwapinski / Prof. Michael H. Hayes
Dr Dmitri Bulushev
Prof. Angelos Lappas, Chemical Process Engineering Research Institute CPERI, Greece
Dr Colin Fitzpatrick

Moore Daithí Paul

Thesis:

Internal Supervisors:
External Supervisor:
Internal Examiner:
External Examiner:
Chair:

Thermally Induced Flows and Ventilation within an Aircraft Wing Leading Edge Compartment

Dr David Newport / Dr Vanessa Egan
Dr Vesna Lacarac
Dr Reena Cole
Prof. Oronzio Manca, Seconda Università Degli Studi di Napoli, Italy
Dr Jeremy Robinson

Morado Vazquez Lucia

Thesis:

Internal Supervisors:
Internal Examiner:
External Examiner:
Chair:

An Empirical Study on the Influence of Translation Suggestions' Provenance Metadata

Dr Chris Exton / Dr Reinhard Schaefer
Dr Liam Murray
Dr Maria del mar Sanchez Ramos, University of Alcala, Spain
Dr Jim Buckley

Mullane Nessa Siobhan

Thesis:

Internal Supervisor:
Internal Examiner:
External Examiner:
Chair:

Toward the Development of Gamma-Lactones and Gamma-Lactams as Protease Inhibitors

Dr Tim Smyth
Dr Noreen Hanly
Prof. Stephen Connors, Trinity College Dublin
Dr Peter Davern



Noor Mohamed Radzi

Thesis:

Bioenergetics at Extreme Temperature: Structural and Functional Studies of Complexes II and IV of Thermus Thermophilus

Internal Supervisor:

Dr Tewfik Soulimane

Internal Examiner:

Prof. Tony Pembroke

External Examiner:

Dr Volker Zickermann, Goethe University, Frankfurt, Germany

Chair:

Dr Jakki Cooney

O'Connell Maurice

Thesis:

The Sustainability Potential of (W)EEE Re-use in Ireland: Evaluation, Implementation, Auto-Identification and the Internet of Things

Internal Supervisor:

Dr Colin Fitzpatrick

Internal Examiner:

Dr Ian Grout

External Examiner:

Prof. Ian Williams, University of Southampton

Chair:

Dr Tom Newe

O'Doherty Travis Mark

Thesis:

A Quantitative Assessment of Policies to Increase Environmental Sustainability of Medium to Large Sized Settlements in Ireland

Internal Supervisors:

Dr Bernadette O'Regan / Prof. Richard Moles

Internal Examiner:

Prof. Merritt Bucholz

External Examiner:

Dr Geraint Ellis, Queens University Belfast

Chair:

Prof. Tony Pembroke

O'Dwyer Anne Marie

Thesis:

Identification of the Difficulties in Teaching and Learning of Introductory Organic Chemistry in Ireland and the Development of a Second-Level Intervention Programme to Address These

Internal Supervisors:

Dr Peter Childs / Dr Noreen Hanly

Internal Examiner:

Dr Tim Smyth

External Examiner:

Dr Claire McDonnell, Dublin Institute of Technology

Chair:

Dr Peter Davern

O'Dwyer Sandra

Thesis:

Stabilisation of Omega-3 Oils in Food Emulsion Systems

Internal Supervisors:

Prof. David O'Beirne / Dr Deirdre Ní Eidhin

External Supervisor:

Dr Brendan O'Kennedy

Internal Examiner:

Prof. Dick FitzGerald

External Examiner:

Prof. Ronan Gormley, University College Dublin

Chair:

Prof. John Breen

Ó Griofa Marc Bernard

Thesis:

The Use of Cardiac Autonomic and Hemodynamic Monitoring as a Surrogate Marker for Sleep Stability and Performance in Austere and Extreme Environments

Internal Supervisor:

Dr Derek O'Keeffe

Internal Examiner:

Dr Ciaran MacNamee

External Examiner:

Dr Chris Carr, MIT (Massachusetts Institute of Technology)

Chair:

Dr Richard Conway

O'Keeffe Niall William

Thesis:	On Slip Flow and Interfacial Phenomena within Superhydrophobic Microchannels
Internal Supervisors:	Dr Tara Dalton / Dr Cormac Eason
Internal Examiner:	Dr Patrick Frawley
External Examiner:	Prof. Anthony Robinson, Trinity College Dublin
Chair:	Prof. Tim McGloughlin

O'Shea Laura

Thesis:	Investigation of Silica Scaling of Heat Exchanger Surfaces at Aughinish Alumina
Internal Supervisor:	Prof. Kieran Hodnett
Internal Examiner:	Dr Seamus McMonagle
External Examiner:	Prof. Maria Kennedy, Institute for Water Education, UNESCO-IHE
Chair:	Dr Catherine Adley

O'Sullivan Kieran James

Thesis:	Examining the Role of Sitting Behaviour in Non-Specific Chronic Low Back Pain
Internal Supervisor:	Dr Leonard O'Sullivan
External Supervisor:	Prof. Wim Dankaerts
External Examiners:	Prof. Raymond Lee, University of Roehampton, London
	Dr Valerie Sparks, Cardiff University, Wales
Chair:	Dr David Tanner

Pisano Cecilia

Thesis:	Multiscale Modelling of Processing and Properties of Intercalated Polymer-Clay Nanocomposites
Internal Supervisor:	Dr Lukasz Figiel
External Supervisor:	Prof. Francesco Aymerich
Internal Examiner:	Prof. Noel O'Dowd
External Examiner:	Prof. Siegfried Schmauder, University of Stuttgart, Germany
Chair:	Prof. Tim McGloughlin

Riordan Daniel

Thesis:	The Design and Implementation of Animal Auto Identification Systems for Application within the Agricultural Sector
Internal Supervisor:	Dr Ian Grout
External Supervisors:	Dr Edmond Harty / Dr Joseph Walsh
Internal Examiner:	Prof. Elfed Lewis
External Examiner:	Prof. Shane Ward, University College Dublin
Chair:	Dr Colin Fitzpatrick

Ryan Peter Anthony

Thesis:	Design Analysis and Optimisation of the Self-Rectifying Impulse Turbine for Ocean Wave Energy Conversion Using Computational Fluid Dynamics and Experimental Analysis
Internal Supervisor:	Dr Ajit Thakker
Internal Examiner:	Dr John Jarvis
External Examiner:	Dr T.S. Dhanasekaran, ANSYS INC, USA
Chair:	Prof. Tim McGloughlin



Russell David Kenneth

Thesis:

Heterologous Production and Characterisation of Cation Diffusion Facilitator Proteins from the Marine Bacterium *Maricaulis Maris* MCS10

Internal Supervisor:

Dr Tewfik Soulimane

Internal Examiner:

Prof. Gary Walsh

External Examiner:

Prof. Kornelius Zeth, Unidad de Biofisica, Spain

Chair:

Dr Tim Smyth

Salaj-Kosla Urszula

Thesis:

Nanoporous Gold Electrodes as Matrices for Enzyme Immobilization for Application in Biosensors and Biofuel Cells

Internal Supervisor:

Prof. Edmond Magner

Internal Examiner:

Prof. Tony Pembroke

External Examiner:

Prof. Lo Gorton, Lund University, Sweden

Chair:

Dr Jakki Cooney

Sedakov Roman Olegovich

Thesis:

Spatial Periodic Solutions of the Extended Cahn-Hilliard Equation

Internal Supervisors:

Prof. Eugene Benilov / Dr William Lee

Internal Examiner:

Dr Jean Charpin

External Examiner:

Dr Edward Cox, University College Dublin

Chair:

Dr Alan Hegarty

Sharif Khaironi Yatim

Thesis:

Open Source Programmers' Information Seeking

Internal Supervisor:

Dr Jim Buckley

Internal Examiner:

Dr Nikola Nikolov

External Examiner:

Dr Chris Douce, Open University, London

Chair:

Dr Liam Murray

Singh Ajay

Thesis:

Synthesis and Assembly of Binary, Ternary and Quaternary Semiconductor Nanorods

Internal Supervisor:

Dr Kevin M. Ryan

Internal Examiner:

Dr Christophe Silien

External Examiner:

Dr Andreu Cabot, Catalonia Institute for Energy Research, Spain

Chair:

Dr Tim Smyth

Slattery Darina Marion

Thesis:

Using Financial Event Phrases and Keywords to Classify Form 8-K Disclosures by Likely Share Price Response

Internal Supervisor:

Dr Richard Sutcliffe

External Examiners:

Dr Lee Gillam, University of Surrey

Dr Tony Veale, University College Dublin

Chair:

Dr Michael English

Treacy Páraic Thomas

Thesis:	An Investigation into the Integration of Mathematics and Science at Junior Cycle in Irish Post Primary Schools
Internal Supervisors:	Prof. John O'Donoghue / Dr George McClelland
Internal Examiner:	Dr Olivia Fitzmaurice
External Examiner:	Prof. Martin Stynes, University College Cork
Chair:	Dr Mark Burke

Twohig Eoghan Diarmuid

Thesis:	Mechanical and Microstructural Properties of a Nickel-Titanium Alloy at Elevated Temperatures Relevant to the Dieless Drawing Process
Internal Supervisors:	Dr Peter Tiernan / Dr Syed Tofail
Internal Examiner:	Dr David Tanner
External Examiner:	Dr David Brabazon, Dublin City University
Chair:	Dr Cathal Heavey

Zhang Yuqi

Thesis:	Electromechanical Properties of Bone at the Nanometre and Micrometre Scale
Internal Supervisor:	Dr Syed Tofail
External Supervisors:	Dr Brian Rodriguez / Prof. Hugh Byrne
Internal Examiner:	Dr Christophe Silien
External Examiner:	Prof. Sidney Lang, Ben-Gurion University of the Negev, Israel
Chair:	Dr Tewfik Soulimane

Zhang Fan

Thesis:	On the Security and Energy Consumption Estimation of Wireless Sensor Network Protocols
Internal Supervisors:	Dr Reiner Dojen / Prof. Tom Coffey
Internal Examiner:	Dr Kevin Murphy
External Examiner:	Prof. Robert Gyorodi, University of Oradea, Romania
Chair:	Dr Máirtín Ó Droma

