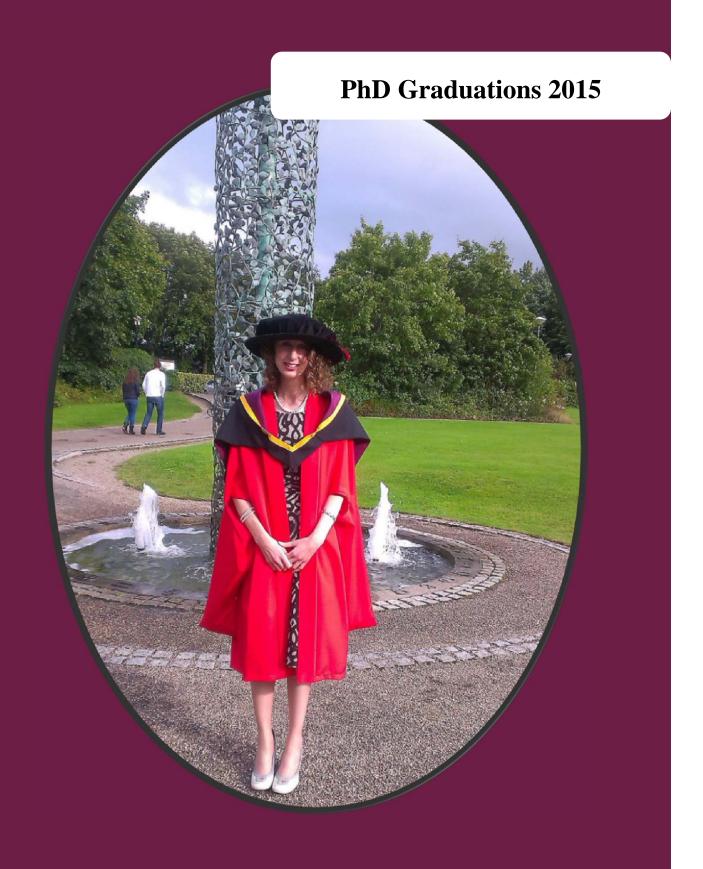


Faculty of Science + Engineering



Faculty of Science + Engineering

Autumn Conferrings
Pages 3 - 9



Winter Conferrings

Pages 10 - 17







Bourke Andrea

Thesis:

Electrode kinetics in all-vanadium flow batteries: effects of electrochemical treatments

Internal Supervisor:

Prof. Noel Buckley / Dr. Robert Lynch

Internal Examiner: Dr. Fernando Rhen

External Examiner: Dr. Adam Whitehead, Industriezentum No Sud strabe 3 Neudorf

Austria

Chair:

Dr. Ian Clancy

Browne Leonard

Thesis:

Quantifying the Hemodynamic characteristics of an arteriovenous fistula used for Hemodialysis

Internal Supervisor: Internal Examiner:

Dr Philip Griffin / Dr. Michael Walsh

Dr David Newport

External Examiner:

Prof. Umberto Morbiducci, Politecnico di Torino Turin, Italy

Chair:

Dr. Jeremy Robinson

Costelloe Jennifer

Thesis:

Towards the Use of Geometric Parameters and Blood-Borne Species Concentration in the Prediction of Cerebral Aneurysm **Growth and Rupture**

Internal Supervisor: Internal Examiner:

Dr Michael Walsh Dr David Newport

External Examiner: Chair:

Prof. Madhavan Raghavan, University of Iowa

Dr. Jeremy Robinson

Cunha Neves Adriana

Thesis:

Extraction, purification and characterisation of biofunctional peptides from marine processing co-products

Internal Supervisor: Internal Examiner: External Examiner:

Prof Dick FitzGerald Dr Eibhlís M. O'Connor

Prof. Hordur Kristinsson, Icelandic food and biotech R&D, Iceland Dr. Ronan Courtney

Chair:

Cunnane Eoghan

Thesis:

Towards the Development of Guidelines for the Endovascular Treatment of Peripheral Artery Disease: A Tissue Characterisation Approach

Internal Supervisor: Internal Examiner: External Examiner:

Dr Michael Walsh Dr. Eamonn De Barra Prof. Richard Leask

Dr. Jeremy Robinson

McGill University, UK

Chair:

Enright Deirdre

Thesis:

Development of a novel process for the removal of selected organic compounds from waste streams

Internal Supervisor: Internal Examiner: External Examiner:

Dr. Tom O'Dwyer / Dr. Teresa Curtin

Dr Peter Davern

Dr Brian Kelleher, Dublin City University

Chair:

Dr J.J. Leahy





Gahan Jacinta

Thesis:

Bacterial and Arbuscular Mycorhizal Fungal Interactions for

Mobilisation of Organically Bound Sulfur in Soil

Internal Supervisor: Internal Examiner:

Dr Achim Schmalenberger Dr Tom Harrington

External Examiner: Chair:

Prof. Matthias Noll, University of Applied Science and Arts, Germany

Dr. Ken Byrne

Galvin Elaine

Thesis:

To determine and overcom misconceptions in biology held by students and educators inthe irish schooling system

Internal Supervisors: Dr Audrey O'Grady

Internal Examiner: Dr Geraldine Mooney Simmie

External Examiner: Dr Manfred Lang, University of Kiel, Germany

Chair:

Dr Ronan Courtney

Heffernan Natalie

Thesis:

Extraction, characterization and seasonal variation of bioactive compounds (polyphenols, carotenoids and polysaccharides) from Irish origin macroalgae with potential for including in functional food products

Internal Supervisor: Prof. Dick FitzGerald

External Supervisor: Dr. Thomas Smyth / Dr Nigel Brunton

Internal Examiner: Dr. Eibhlís M. O'Connor

External Examiner: Dr. Rena Barry-Ryan, Dublin Institute of Technology

Chair:

Dr. Ronan Courtney

Ivashyn Uladzislau

Thesis:

An Experimental and Numerical Investigation of the Biaxial Tensile Behaviour of Biomedical Alloys, Nitinol and SS304

Internal Supervisor: Dr. Peter Tiernan Internal Examiner: Dr. Seamus Gordon

DR. James Butler, Cook Medical Ltd Limerick Ireland **External Examiner:**

Chair: Dr. Peter Williams

Kleineberg Oliver

Thesis A new fault tolerant architecture for time sensitive automation

networks

Internal Supervisor: Dr. Donal Heffernan Internal Examiner: Dr. Tom Newe External Examiner: Dr. Mark Davis

Dublin Institute of Technology Internal Supervisor:

Chair: Dr. Ciaran MacNamee

Kuhs Manuel

Thesis The influence of solvent on the nucleation of medium-sized

flexible organic molucules from solution

Internal Supervisor: Prof. Ake Rasmuson

Dr. Stephane Veesler, Centre ciplinaire de nanoscInternal **External Examiner:**

Examiner:nce de marseille

External Examiner: Dr. Simon Lawrence, University College Cork

Prof. Kieran Hodnett Chair:



Lanning Ivor

Thesis: Modelling of Information Sharing in Capacitated Assembly

Supply Chains Using Simulation

Internal Supervisor: Prof. Cathal Heavey
Internal Examiner: Dr Peter Williams

External Examiner: Dr Paul Young, Dublin City University

Chair: Dr Seamus Gordon

Mc Carthy Conor

Thesis On the utilinternal Supervisor:ation of taylor flows for

automated cell to signal

Internal Supervisor: Dr. Tara Dalton

Internal Examiner: Dr. Patrick KInternal Examiner:ly

External Examiner: Dr. Darren Link Raindance Technologies Inc Billerica USA

Chair: Prof.Noel O'Dowd

Mc Alea Eamonn

Thesis Mitigating Employer Liability for Producers and Users of

Engineered Nano Materials

Internal Supervisor: Dr. Finbarr Murphy / Dr. Syed Tofail / Dr. Martin Mulliins

Internal Examiner: Dr. Fergal O'BrInternal Examiner:n

External Examiner: Dr. Elena Semenzin, University ca'Foscari Venice Italy

Chair: Dr. Sheila Killian

McCarthy Denis

Thesis Optical fibre X-ray radiation dosimeter sensor for low dose

applications

Internal Supervisor: Prof. Elfed Lewis / Dr. Sinead O'Keeffe

Internal Examiner: Dr. Colin Fitzpatrick

External Examiner: Prof. Francis Berghmans, Vrije Universiteit Brussels, Belgium

Chair: Dr. Tom O'Dwyer

Mc Carthy Marguerita

Title | Integral voltage-gated sodium channels: production,

characterisation and investigation into oligomeric state

detergent dependence

Internal Supervisor:

Dr. Tewfik Soulimane
Internal Examiner:

Dr. Patrick Kiely

External Examiner: Prof. Susanne Arnold, Radnoud University Medical Center,

The Netherlands

Chair: Dr. Ning Liu

Mc Cormack Allison

Title A Bayesian Study of Safety Conditions at United States Navy

Shipyards: Exploration of Statistical Models for the Severity of

Injuries and safety

Internal Supervisor: Dr. Thomas Waldmann

Internal Supervisor. Dr. Mikael Fernstrom

External Examiner: Prof. Neville Stanton, University of Southampton, UK

Chair: Dr. Seamus Gordon



Moore James

Title

Aerodynamic and thermal characteristics of a novel modular aircooled condenser

Internal Supervisor:
Internal Examiner:
External Examiner:

Prof. Oronzio Manca, Seconda Universita Degli Studi di Napoli, Italy

Chair: Dr. Andy Niven

Nishio Naoto

Title

Predicting the Quality of a Translation from Attributes of a Translator

Internal Supervisor: Internal Examiner: External Examiner:

Dr. Nikola Nikolov Dr. Lucia Specia, University of Sheffield, UK

Chair:

Dr. Patrick Healy

Dr. Richard Sutcliffe

Dr. Ronan Grimes

Dr. Jeff Punch

O'Dwyer Jean

Title

Microbiological Contamination of Private Water Wells in the Midwest Region of Ireland: Investigation of Water Quality, Public Awareness and the Application of Logistic Regression in Contaminant Modelling.

Internal Supervisor:
Internal Examiner:
External Examiner:

Dr. Tom O'Dwyer
Dr. Enda Cummins, UCD Smurfit Graduate Business School

Chair:

Prof. Gary Walsh

Dr. Catherine Adley

Richardson David

Title

Nanotubes prepared by electroless deposition: investigation of the nanostructure formation mechanInternal Supervisor:m and characterInternal Supervisor:ation of physical properties

Internal Supervisor:

Dr. Fernando Rhen
Dr. Christophe Silien
Dr. Christophe Silien

External Examiner: Prof. Mike Lyons, Trinity College Dublin

Chair: Dr. Ian Clancy







Walsh Richard

Title

Internal Supervisor: Internal Examiner: External Examiner:

Chair:

A Purpose-Built Model for the Effective Teaching of Trigonometry: A Transformation of the van Hinle Model

Dr. Olivia Fitzmaurice / Prof. John O'Donoghue

Dr. Patrick Johnson

Prof Juergen Maasz, University of Linz, Austria

Dr.Alan Hegarty

Wnetrzak Renata

Title

Clean and Environmentally FrInternal Examiner:ndly Animal Waste TechnologInternal Examiner:s for Fertilizer and Energy Production

Internal Supervisor: Dr. Witold Kwapinski / Dr. JJ Leahy

Internal Examiner: Prof. Michael H Hayes

External Examiner: Dr. David Fangueiro, Universidade de LInternal Suboa, Tapada da

Ajuda Portugal

Chair:

Dr. Noreen Hanly

Zhernovaya Olga

Title

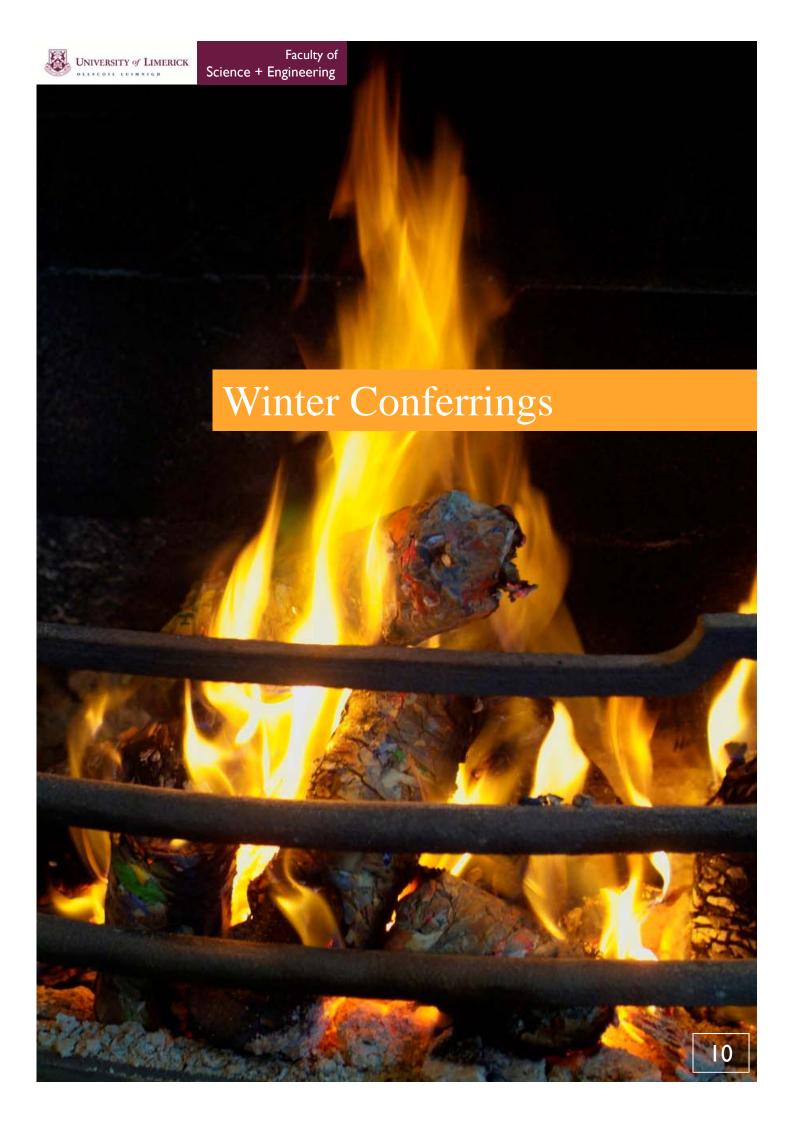
Internal Supervisor: Internal Examiner: External Examiner: Chair: Optical clearing of blood

Prof. Martin J. Leahy / Dr. Ning Liu

Dr. Syed Tofail

Prof. Igor Meginski, University of Oulu, Finland

Dr. Ian Clancy





Balandeh Mehrdad

Internal Supervisors:

Internal Examiner:

External Examiner:

Thesis:

Chair:

Effects of Electrochemical Pretreatments on the Kinetics of Some Electrode Reactions on Carbon and Palladium

Prof. Noel Buckley / Dr Robert Lynch

Prof. Ursel Bangert

Dr Shafaat Ahmedm, GlobalFoundries, New York, USA

Dr Ning Liu

Barlas Panagiotis

External Examiner:

Thesis:

Chair:

Automating Simulation: An Open Source Software for Automated Input Data in Discrete Event Simulation Projects

Internal Supervisor: Prof. Cathal Heavey
Internal Examiner: Dr Peter Williams

Dr Stefan Onggo, Lancaster University Management School, UK

Dr Seamus Gordon

Brennan James Edmund

Thesis:

Chair:

Adoption of National Electronic Prescribing Services in Primary Care in Europe: Policy Lessons for Ireland

Ms Annette McElligott / Dr Norah Power

Dr Dermot Shinners-Kennedy

Prof. Wendy Currie, Audencia Nantes, School of Management, France

Dr Michael English

Chennupati Gopinath

Internal Supervisors:

Internal Examiner:

External Examiner:

Grammatical Evolution + Multi-Cores = Automatic Parallel Programming!

Prof. Conor Ryan / Mr Atif Azad

Dr Malachy Eaton

Dr John Woodword, University of Stirling, Scotland

Mr J.J. Collins

Thesis:

i nesis:

Internal Examiner: External Examiner: Chair:

Internal Supervisors:

Dagkakis Georgios

Internal Supervisor:

Internal Examiner:

External Examiner:

Thesis:

ManPy: Research into the Development of a Modular Open Source Discrete Event Simulation Engine

Prof. Cathal Heavey

Dr Alan Ryan

Dr Simon Taylor, Brunel University, UK

Chair: Dr Seamus Gordon

Daniels Emma

Internal Supervisor: Internal Examiner:

External Examiner:

Thesis:

The Removal of CO from Gaseous Streams Using Solid Sorbents

Dr Teresa Curtin Dr Tom O'Dwyer

Dr Andoni Gil, Public University of Navarre, Spain

Chair: Dr Noreen Hanly





Doyle Tony

Thesis:

Spectral Precedence Methodologies in Spatial Auditory Research Perceptual Evaluation of Spatial Attributes in 2D and 3D Virtual

Auditory

Display Environments

Internal Supervisor: Internal Examiner:

Dr Kerry Hagan Dr Mikael Fernstrom

External Examiner: Chair:

Prof. Eric Lyon, School of Performing Arts, Virginia Tech, USA

Dr Jim Buckley

Duggirala Naga Kiran

Thesis:

Internal Supervisor: External Examiner:

Chair:

Crystal Engineering of Ionic Cocrystals

Prof. Michael Zaworotko Internal Examiner: Dr Denise Croker

Dr Magali Hickey, Alkermes Inc, Massachusetts, USA

Dr Emmet O'Reilly

Fennell Peter Gerard

Thesis:

Internal Supervisor: External Examiner:

Chair:

Stochastic Processes on Complex Networks: Techniques and

Explorations

Prof. James Gleeson Internal Examiner: Dr Mark Burke Prof. Peter Mucha, University of North Carolina, USA

Dr Romina Gaburro

Ghadimihamzehkoulaei Pezhman

Thesis:

Research into Developing Intelligent Sustainable Supplier Selection and Order Allocation Using Multi-Agent Systems in a Partnership

Supply Chain
Prof. Cathal Heavey
Dr Peter Williams

Prof. Agostino Villa, Politecnico di Torino, Italy

Chair: Dr Seamus Gordon

Ju Xiaoming

Internal Supervisor:

Internal Examiner:

External Examiner:

Internal Supervisor:

Internal Examiner:

External Examiner:

Thesis:

An Experimental Investigation into the List Colouring Problem

Dr Patrick Healy Prof. Conor Ryan

Prof. Cathal Brugha, University College Dublin

Chair: Dr Norah Power

Kennedy Tadhg Gerard

Thesis:

Nano-Structuring of Silicon and Germanium: A Viable Route to High

Capacity, Long Cycle Life Lithium-Ion Battery Electrodes

Internal Supervisor: Dr Kevin M. Ryan Internal Examiner: Dr Tom O'Dwyer

External Examiner: Prof. Mike Lyons, Trinity College, Dublin

Chair: Dr Denise Croker

13



Kredzinski Lukasz

Thesis: 1550 nm Super Luminescent Diode and Anti-Stokes Effect CCD

Camera-based Optical Coherence Tomography for Full-Field

Optical Metrology

Internal Supervisor: Dr Michael Connelly
Internal Examiner: Dr David Corcoran

External Examiner: Prof. Arnaud Dubois, University of Paris 11, France

Chair: Dr Donal Heffernan

Krzczanowicz Lukasz Daniel

Thesis: Optical Phase Modulated Data Wavelength Conversion Using Four

Wave Mixing in Bulk and Quantum Dash Semiconductor Optical

Amplifiers

Internal Supervisor: Dr Michael Connelly
Internal Examiner: Dr Ciaran MacNamee

External Examiner: Dr Antonella Bogoni, CNIT Consorzio Nazionale Interuniversitario per le

Telecomunicazioni, Italy

Chair: Dr Richard Conway

Murphy Joseph Andrew

Thesis: Development of Stress during Electrodeposition of Nano-Scale

Copper Metallization: An In-Situ Study Using Real-Time Wafer-Curvature Measurements, Electrochemical Characterization, and

AFM Imaging

Internal Supervisors: Prof. Noel Buckley / Dr Robert Lynch

Internal Examiner: Dr Ian Clancy

External Examiner: Prof. Greg Hughes, Dublin City University

Chair: Dr David Corcoran

O'Donovan Alan James

Thesis: On the Thermal and Fluidic Characteristics of Steam Condensation

in an Air-Cooled Condenser

Internal Supervisor: Dr Ronan Grimes
Internal Examiner: Dr David Newport

External Examiner: Dr Hussam Jouhara, Brunel University, UK

Chair: Dr Conor McCarthy

Panahifar Farhad

Thesis: Development of Models for the Successful Implementation of

Collaborative Planning, Forecasting and Replenishment (CPFR) in

High-tech Industries

Internal Supervisor:
External Supervisor:
Internal Examiner:
Prof. Cathal Heavey
Prof. PJ Byrne
Dr Ann Ledwith

External Examiner: Prof. Brian Fynes, University College Dublin

Chair: Dr Peter Williams

Poeggel Sven

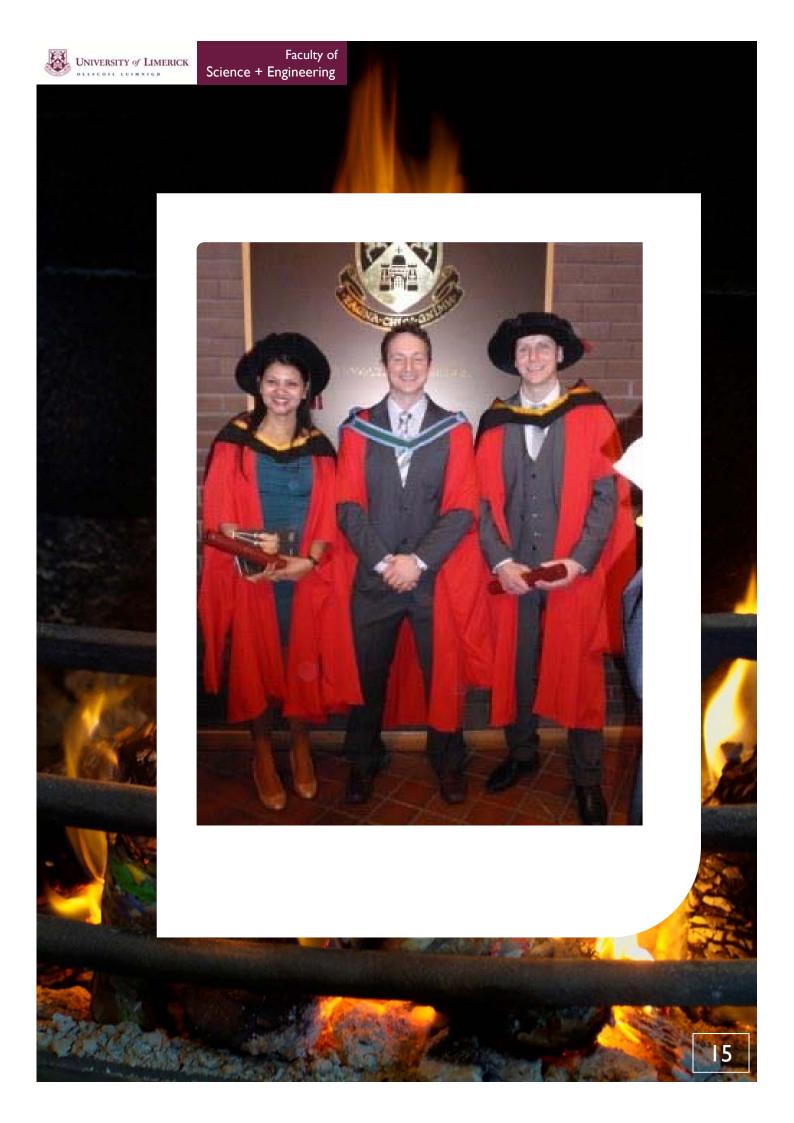
Thesis: Development of an Optical Fibre-based Pressure and Temperature
Sensor System for Urodynamic and Other Medical Applications

Internal Supervisors: Dr Gabriel Leen / Prof. Deirdre McGrath / Prof. Elfed Lewis

Internal Examiner: Dr Tom Newe

External Examiner: Prof. Andrea Cusano, University of Sannio, Italy

Chair: Prof. JJ Leahy





Ryan Marie

Internal Supervisors:

Thesis:

Chair:

An Investigation into the Role of Language in Science Education at Junior Cycle Level in Ireland

Dr Peter Childs / Dr Teresa Curtin

Internal Examiner: Dr Joanne Broggy
External Examiner: Dr Silvija Markic, U

Dr Silvija Markic, University of Bremen, Germany

Dr Peter Davern

Singh Shalini

Thesis:

Colloidal Synthesis of Multinary Metal Chalcogenide Nanocrystals with Composition, Shape and Crystal Phase Control

Internal Supervisor: Internal Examiner: External Examiner: Dr Kevin M. Ryan Prof. Michael Pomeroy

Dr Liberato Manna, Italian Institute of Technology, Italy

Dr Peter Davern

Chair:

Waddell Alistair Martin

Thesis:

The Characterization of Obstructed Laminar Channel Flows for Local Heat Transfer Enhancement in Microfluidic Cooling Applications

Internal Supervisor:

External Supervisor:

Dr Jeff Punch

Dr Jason Stafford

Dr Vanessa Egan

Dr Vanessa Egan

External Examiner: Prof. Amy Fleischer, Villanova University, USA

Chair: Dr Andy Niven

Zawawi Mohd Anwar

Thesis:

An Optical Fibre Sensor for Physiological Bending Monitoring in Clinical Environment

Internal Supervisors: Prof. Elfed Lewis / Dr Sinead O'Keeffe

Internal Examiner: Dr Richard Conway

External Examiner: Dr Kate Sugden, Aston University, Birmingham, UK

Chair: Dr Tom Newe

Zhang Zhuxiu

Thesis:

Organic-Inorganic Hybrid Supermolecular Building Blocks for the Design and Synthesis of Metal-Organic Materials

Internal Supervisor: Internal Examiner:

Dr Kevin M. Ryan

External Examiner:

Dr Wolfgang Schmit, Trinity College Dublin Dr Witold Kwapinski

Prof. Michael Zaworotko

Chair:

