



R2i-2017 Innovation Workshop

The Research to Industry (R2i) Workshop– 18th May 2017

Stokes Building, Dublin City University, Glasnevin, Dublin 9, Ireland



The Event

The R2i-2017 Innovation Workshop provides opportunities for innovative researchers to present their work at this forum comprising a wide spectrum of interested parties. Attendees from business and industry may engage with innovators to take up promising innovations into further development or exploitation. This event bridges the gap between industry and research by:

- Showcasing innovative technological research of potential value to Irish and UK industry
- Identifying resources or competence in specific areas
- Find specialists to support further or related research
- Bridge skills gaps by discovering graduates to employ, second or sponsor

This innovative workshop builds on previous successful R2i initiatives. At R2i-2017 researchers will present short high impact illustrated narratives of their research achievements. The four sessions are led by keynotes who are leaders in take-up and commercialisation of research.

The Keynotes at R2i-2017 are:

Dr Tom Rowbotham, IEEE Life Fellow, Partner at Vesbridge Venture Capital. Tom will give guidance on how to prepare & seek business funding".

Stephen McNulty, Chief Executive Officer, AmbiSense - providing disruptive technology in environmental monitoring and IoT. Stephen will talk about his experience as an entrepreneur, identifying a market opportunity and working with university researchers to spin-out AmbiSense

Géraldine Andrieux Gustin CEO of BLUMORPHO, an innovation accelerator company and business maker for innovation. Géraldine will address innovation acceleration and business creation.

Paul Murray, Investment Director, Atlantic Bridge Capital. Atlantic Bridge invests in technology companies in Europe, the US and China. The Fund focuses primarily at the expansion capital and growth equity stages.

The R2i-2017 Programme:

Research to Industry (R2i-2017)			
08:00-09:00	Registration & Coffee		
09:00-09:15	Welcome Address: Professor Patrick McNally, Dublin City University		
Time	Session	Presentation Title	Presenter/Affiliation
09:15-09:45	Keynote	<i>Guidance on how to prepare & seek business funding</i>	Dr Tom Rowbotham, UK, IEEE Life Fellow, Venture Partner, Vesbridge Venture Capital
09:45	Session 1: ICT Chair: Grace O'Malley, INEMI	<i>A CVD-based Graphene receiver for WLAN applications</i>	Mohamed Saeed RWTH Aachen University, Germany.
09:55		<i>An all-fibre optical back-propagation solution for the mitigation of optical propagation impairments</i>	Aravind P. Anthur Dublin City University, Ireland.
10:05		<i>Probabilistic constellation shaping yields terabit transmission</i>	Fabian Steiner Technische Universität München, Germany
10:15		<i>5G 60 GHz Radio over Fibre Optical Fronthaul System Based on a Gain Switched Laser</i>	Eamonn Martin Dublin City University, Ireland
10:25-10:45	Coffee Break		
10:45-11:15	Keynote	<i>Identifying a market opportunity and working with university researchers to spin-out a company</i>	Stephen McNulty Chief Executive Officer, AmbiSense, Ireland
11:15	Session 2: Manufacturing, Sustainability & Energy Chair: Carolyn Hughes, Invent DCU Ltd	<i>Non-destructive Laboratory-Based Tool to Measure Die Warpage in Encapsulated Packaged Chips</i>	Nima E. Gorji Dublin City University, Ireland
11:25		<i>A Highly-Integrated Novel Electric Propulsion System (NEPSY)</i>	Alessandro Serpi University of Cagliari, Italy
11:35		<i>Remote sensing a low pressure plasma in the radio near field</i>	Sean Kelly Dublin City University, Ireland
11:45		<i>Modular Multilevel Parallel Converter based Split Battery System for Electric Vehicles (M2B4EV)</i>	Florian Helling University des Bundeswehr Munich, Germany
11:55		<i>Life+: Freshbox Project</i>	Krishna Panduru IMAR, Institute of Technology, Tralee, Ireland
12:05-13:00	Lunch		
13:00-13:30	Keynote	<i>Innovation acceleration and business creation</i>	Géraldine Andrieux Gustin CEO of BLUMORPHO, France
13:30	Session 3: IoT & Machine Learning Chair: Chris Bailey, University of Greenwich	<i>Goldman Saving Money Services (G-SMS)</i>	Andreas Chrysafis Goldman Solutions & Services Ltd., Cyprus
13:40		<i>H2020 - ProPAT</i>	Krishna Panduru IMAR, Institute of Technology, Tralee, Ireland
13:50		<i>Autonomic Home Area Network Infrastructure (AUTHENTIC)</i>	Matt Kennedy International Energy Research Centre, Ireland
14:00		<i>Prognostics for Smart Qualification Testing of Electronic Products</i>	Mominul Ahsan University of Greenwich, UK
14:10		<i>Prototype Wireless Controller System based on Raspberry Pi and Arduino for Engraving Machine</i>	Saifaldeen S. O. Al-Kadhim University of Technology, Baghdad, Iraq
14:20		<i>Interactive Technology (IT) smart parking system</i>	Muftah Fraifer University of Limerick
14:30-14:50	Coffee Break		
14:50-15:20	Keynote	<i>Technology companies investment, expansion capital and growth equity stages</i>	Paul Murray Investment Director, Atlantic Bridge Capital, Ireland & UK
15:20	Session 4: Medical & Assistive Technology Chair: Paul Cunningham, IIMC	<i>Knee Tracker- A smart device for pre and postoperative monitoring of patients having knee surgery</i>	S A Sampath Bluespot Knee Clinic, London, UK
15:30		<i>IOT based Process Model for heart Monitoring Process</i>	Dalyah. Y. Al-Jamal Prince Sultan University, Riyadh, KSA
15:40		<i>SepTec</i>	Elaine Spain Dublin City University, Ireland
15:50		<i>SMARTCOUGH: Continuous Monitoring of Cough Events Based on Smartphones</i>	Jesus Monge University of West Scotland, UK
16:00		<i>Controlled growth of high quality and large area graphene by Physical Vapour Deposition: Implications for biomedical applications</i>	Rajani K Vijayaraghavan Dublin City University, Ireland
16:10		<i>Binary Multilevel Pulse Source for Transcranial Magnetic Stimulation (BiStim)</i>	Florian Helling University des Bundeswehr, Germany
16:20-16:40	Awards & Closing Remarks		

Registration & Seminar Fees.

Spaces are limited and registration is attractive at only Euro 25.00 per delegate. There are also opportunities for Table-Top Exhibits – see below. Register at <https://www.eventbrite.ie/e/r2i-2017-innovation-workshop-the-research-to-industry-r2i-workshop-tickets-32182064421>

Exhibition:

Companies are encouraged to promote at R2i-2017 by booking a tabletop without delay. All speakers are also encouraged to take a table-top at discounted rate to further promote their work. Bookings are on a first-come first-served basis (no more than two table-tops per Company). All exhibitors are offered a free listing in the event programme.

Tabletop Exhibitor --- R2i-2017 Presenter: €55.00

Tabletop Exhibitor - IEEE or IMAPS Members' companies: €200.00

Tabletop Exhibitor --- Non-Member: €350.00

We expect the event to sell out, so book early at <https://www.eventbrite.ie/e/r2i-2017-innovation-workshop-the-research-to-industry-r2i-workshop-tickets-32182064421>

For further information on this Innovation Workshop, please contact either:

DCU

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or

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The Venue:

Dublin City University is Ireland's University of Enterprise, a young, dynamic and ambitious university with a distinctive mission to transform lives and societies through education, research and innovation. Since admitting its first students in 1980, DCU has grown in both student numbers and size (16,000+) and is now a multi-campus environment, located just north of Dublin city. In the last nine years, DCU has twice been named Sunday Times 'University of the Year'. http://www.dcu.ie/info/get_to.shtml

The Workshop Venue is room S206/S208 the Stokes Building on the DCU Glasnevin Campus. The Stokes Building is indicated as Building S https://www4.dcu.ie/sites/default/files/campus_map.pdf

Hotels close to DCU:

Holiday Inn Express Dublin Airport

https://www.ihg.com/holidayinnexpress/hotels/us/en/dublin/dblex/hoteldetail?cm_mmc=GoogleMaps--EX--IRL--DBLEX

Crowne Plaza Dublin Airport

https://www.ihg.com/crowneplaza/hotels/us/en/dublin/dblnp/hoteldetail?cm_mmc=GoogleMaps--CP--IRL--DBLNP

Dublin Skylon Hotel

<http://www.dublinskylonhotel.com/>

Regency Hotel

<http://www.regencyhotels.com/>

Travelodge Dublin Airport South Hotel

https://www.travelodge.ie/hotels/378/Dublin-Airport-South-hotel?utm_source=google&utm_medium=maps&utm_campaign=dublin-airport-south

Directions from Dublin Airport to DCU:

Enter by the Collins Avenue entrance (main Campus Entrance) and proceed to the Multi-Storey Car Park (Building F at https://www4.dcu.ie/sites/default/files/campus_map.pdf). Campus parking is extremely limited and we cannot block book any space therein. Therefore, it is **strongly recommended** that participants use public transport or, preferably, a taxi directly from the airport. DCU is a 15 minute taxi drive from Dublin Airport.

Full details on public transport to DCU can be found at https://www.dcu.ie/info/public_transport.shtml

Organisers: IEEE UK & Ireland Action for Industry, IEEE UK & Ireland CPMT Chapter;
Dublin City University (DCU); iNEMI; IMAPS-UK

