



NovaUCD Newsletter



The Innovation and Technology Transfer Centre

December 2008

Dear Colleagues and Friends

Welcome to the last issue of the NovaUCD Newsletter for 2008.

The major success story for 2008 was the sale of ChangingWorlds. This spin-out company from UCD's School of Computer Science and Informatics was co-founded in 1999 by Professor Barry Smyth and Paul Cotter. It is being acquired by Amdocs the US-quoted technology company for \$60 million plus a deferred consideration which is dependent on the performance of the company over the next two years. The success of ChangingWorlds will hopefully be an inspiration for academic entrepreneurs who are interested in establishing new ventures to commercialise innovative ideas emerging from university research.

NovaUCD celebrated its fifth birthday in October. While international experience shows that there is a long lead-time involved in commercialising the output of university research, a lot has been achieved by the innovators and entrepreneurs supported by NovaUCD during its first five years of operation. In this Newsletter we look back at some of the results achieved since NovaUCD officially opened in October 2003.

The 13th Campus Company Development Programme Awards Evening took place in November. The overall winner was ASimil8 co-founded by Paul Groarke and Garrett Hussey. ASimil8, which is located at NovaUCD, is a new eLearning venture which has developed a next generation learning platform to provide immersive education for languages and other subjects using virtual world and gaming technologies.

The 11th NovaUCD 'Entrepreneurs Live!' seminar series which is supported by the Dún Laoghaire Rathdown County Enterprise Board has now been completed. Podcasts of the latest seminars are available online. To date 64 entrepreneurs have contributed to these seminars which have continued to attract a large audience and to stimulate lively debates on issues relating to entrepreneurship and new venture formation. The series will run again during 2009.

In this issue we also report on other recent developments for BiancaMed, ChangingWorlds, Interleado and Q-Validus and the presentation of Enterprise Ireland Commercialisation Awards to two UCD researchers.

I would welcome any comments or feedback on this issue. Please contact Micéal Whelan on t: 01-716 3712 or e: miceal.whelan@ucd.ie.

Dr Pat Frain, Director

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ChangingWorlds Acquired by Amdocs

Amdocs the US-quoted technology group (NYSE: DOX) and the leading provider of customer experience systems has signed a definitive agreement to acquire the UCD spin-out company, ChangingWorlds Ltd.

ChangingWorlds is a provider of personalization and intelligent portal solutions for mobile service providers.

Under the terms of the agreement, Amdocs has agreed to acquire all of ChangingWorlds' shares for \$60 million in cash, net of cash on hand, subject to post-closing adjustments. Additional consideration may be paid later based on the achievement of certain performance metrics. The acquisition is subject to conditions customary to such transactions, and is expected to close during Amdocs' fiscal quarter ending December 31, 2008.

ChangingWorlds which is a provider of personalization and intelligent portal solutions for mobile service providers, was co-founded in 1999 by Professor Barry Smyth and his then PhD student Paul Cotter as a spin-out from UCD's School of Computer Science and Informatics.



Professor Barry Smyth

ChangingWorlds was a participant on the NovaUCD 1999 Campus Company Development Programme and was infact the overall winner of that year's Programme.

The company initially occupied incubation space in UCD's Campus Innovation Centre before moving to South Dublin Business Park in Leopardstown.

ChangingWorlds is now a global expert in mobile internet personalization and content discovery technologies. It has rolled out its ClixSmart™ Intelligent Mobile Portal platform to over 50 mobile network operators worldwide and it now employs over 160 highly-qualified

staff including staff based in Dublin, Brazil, the Far East and USA.

ChangingWorlds has always maintained strong strategic links with UCD's School of Computer Science and Informatics and its Advanced Research Centre is located in NovaUCD.

NovaUCD's First Five Years of Successful Commercialisation

NovaUCD celebrated its fifth birthday in October. While international experience shows that there is a long lead-time involved in commercialising the output of university research, a lot has been achieved by the innovators and entrepreneurs supported by NovaUCD during its first five years of operation.

Since its official opening on 13 October 2003, 44 high-tech and knowledge-intensive companies have occupied incubation space at NovaUCD and availed of NovaUCD's related innovation services. This includes 15 UCD spin-out companies which are commercialising research undertaken in the University.



Dr Pat Frain, Director, NovaUCD

In addition 30 new ventures have utilised NovaUCD's desk space facilities to undertake feasibility studies.

Since 2004, 90 individuals and 57 projects have now completed NovaUCD's Campus Company Development Programme. The aim of this NovaUCD enterprise support programme is to assist entrepreneurs in the establishment and development of knowledge-intensive enterprises. These figures include the eleven new projects and 20 individuals which completed the 2008 Programme in late November. Former participants on the NovaUCD CCDP, which has run annually since 1996, now collectively employ 700 people.





Since the establishment of NovaUCD, UCD researchers have submitted 170 invention disclosures and a total of 122 patent applications have been filed by UCD for intellectual property arising from research in life sciences, engineering and information and communication technology. Patent applications include 69 priority patent applications, 29 PCT (patent co-operation treaty) applications and 24 national/regional patent applications. In the last three years 24 licence agreements have also been signed with a range of indigenous and international companies.

Twenty-four innovative new ventures with 200 employees are currently based at NovaUCD and occupy 90% of the available incubation space. An additional 10 early stage companies are also currently based in NovaUCD's desk space.

Protection and Commercialisation of Intellectual Property

NovaUCD is responsible for the implementation of UCD's policies relating to the commercialisation of intellectual property and for the management of the intellectual property arising from UCD's research programmes.

A key priority of NovaUCD is to work with UCD researchers in identifying, protecting and commercialising the intellectual property arising from their research programmes and to take innovative ideas from proof-of-principle to full commercial success.

UCD 2008 Invention Disclosures and Patent Filings

Thirty-eight invention disclosures have already been disclosed by UCD researchers to NovaUCD since the start of 2008.



UCD patents filed to date in 2008 include:

A DNA-based test for association with elite sprinting performance in thoroughbred racehorses, Dr Emmeline Hill, UCD School of Agriculture, Food Science and Veterinary Medicine. An Irish and US priority patent application.

A DNA-based test for association with elite racing performance in thoroughbred racehorses, Dr Emmeline Hill, UCD School of Agriculture, Food Science and Veterinary Medicine. An Irish and US priority patent application.

A macrocyclic derivative and assemblies formed therefrom, Dr Rafe Darcy, UCD School of Chemistry and Chemical Biology. A UK priority patent application.

A method and apparatus for blind source separation, Dr Scott Rickard, UCD School of Electrical, Electronic and Mechanical Engineering. A European and US national patent application.

A modified promoter sequence, Professor Therese Kinsella, UCD School of Biomolecular and Biomedical Science. A UK priority patent application.

A process for cleaning a membrane supported biofilm reactor. Dr Eoin Casey, UCD School of Chemical and Bioprocess Engineering. A European priority patent application.

A searching system and method, Professor Barry Smyth, UCD School of Computer Science and Informatics. An Irish priority and US provisional patent application.

A system level power evaluation method, Dr Damian Dalton, UCD School of Computer Science and Informatics. An Irish long term and PCT patent application.

Amyloid and amyloid-like structures, Dr Suzi Jarvis, UCD Conway Institute of Biomolecular and Biomedical Research. A European priority patent application.

An encoding scheme and a decoding scheme using a series of LDPC codes based on finite inversive spaces, Dr Mark Flanagan, UCD School of Electrical, Electronic and Mechanical Engineering and Dr Marcus Greferath, UCD School of Mathematical Science. A PCT patent application.





An isolated population of amniotic fluid cells, Dr David McLaughlin, UCD School of Biomolecular and Biomedical Science. A European priority and US provisional patent application.

Automated building outline detection, Dr Hamish Carr, UCD School of Computer Science and Informatics. An Irish priority patent application.

Captodiamine, Professor Ciaran Regan, UCD School of Biomolecular and Biomedical Science. An Irish priority patent application.

Cluster aggregation point for load balancing in a sensor network, Gregory O'Hare and colleagues, UCD School of Computer Science and Informatics. A PCT patent application.

Cognition TxP (alternatively transcribed genes associated with memory consolidation), Professor Ciaran Regan, UCD School of Biomolecular and Biomedical Science. A US priority patent application.

Compositions and methods for the control of mammary cell number, Dr Annette Byrne, UCD Conway Institute of Biomolecular and Biomedical Research. A US national patent application.

Heat-expanded food products, Professor Dolores O'Riordan, UCD School of Agriculture, Food Science and Veterinary Medicine. A PCT patent application.

High power EUV lamp systems, Professor Padraig Dunne, UCD School of Physics. A European, US national and Japan patent application.

Information retrieval, Dr Neil Hurley, UCD School of Computer Science and Informatics. An Irish and US priority patent application.

Integrated drilling, chamfering and deburring tool, Professor Gerry Byrne and Eamonn Ahearne, UCD School of Electrical, Electronic and Mechanical Engineering. An Irish priority patent application.

Method and apparatus for control of large scale sensor networks, Dr Raja Jurdak, UCD School of Computer Science and Informatics. An Irish priority patent application.

Method and system for monitoring sleep, Professor Conor Heneghan, UCD School of Electrical, Electronic and Mechanical Engineering. A PCT patent application.

Method of coating a thin liquid metal film onto a Solid Substrate, Dr Fergal O'Reilly, UCD School of Physics. An Irish priority patent application.

Method for performing magnetic resonance measurements and apparatus for executing said method, Dr Marcus Greferath, UCD School of Mathematical Science. A European priority patent application.

Method for producing polyhydroalkanoate (PET to PHA), Dr Kevin O'Connor, UCD School of Biomolecular and Biomedical Science. An Irish and UK priority patent application.

Meparfynol, Professor Ciaran Regan, UCD School of Biomolecular and Biomedical Science. An Irish priority patent application.

Microwave plasma sintering, Dr Denis Dowling, UCD School of Electrical, Electronic and Mechanical Engineering. An Irish priority patent application.

Nitrosylated Conjugated Linoleic Acids, Dr Orina Belton, UCD Conway Institute and Professor Des Fitzgerald and colleagues from RCSI. A UK priority patent application.

Pseudomonas putida styrene monooxygenase variants, Dr Kevin O'Connor, UCD School of Biomolecular and Biomedical Science. A UK priority patent application.

Schizo TxP (alternatively transcribed genes associated with Schizophrenia), Professor Ciaran Regan, UCD School of Biomolecular and Biomedical Science. A US priority patent application.

The conversion of a mixture BTEX compounds by defined mixed cultures to medium chain length polyhydroalkanoate, Dr Kevin O'Connor, UCD School of Biomolecular and Biomedical Science. A UK priority patent application.

Contact: For further information contact Dr Ciaran O'Beirne, Manager, Technology Transfer, t: 01-716 3713, e: ciaran.obeirne@ucd.ie.

NovaUCD Laboratory Notebooks

Keeping a laboratory notebook is an essential part of scientific research. Besides being a vital tool for research management it may also provide vital evidence in determining ownership of intellectual property in the





event of successful commercialisation of your research output.

NovaUCD has a new stock of laboratory notebooks available for UCD researchers to purchase at a special below cost price.

Contact: For further information on how to purchase these laboratory notebooks please contact Caroline Gill, t: 01 7163 715, e: caroline.gill@ucd.ie.

Researchers PC

A dedicated PC with access to certain proprietary databases is available at NovaUCD to support UCD researchers in commercialisation activities. This will facilitate researchers in conducting market analysis on different industrial sectors, either to support grant proposals or to assist in the development of commercialisation plans. Assistance will also be provided in searching patent databases.

The PC is available on a 'first-come-first-served basis' and a time-slot to use this PC should be booked in advance via John Wrigley, NovaUCD, t: 716 3721 or e: john.wrigley@ucd.ie.

NovaUCD 2008 Campus Company Development Programme Awards Evening

The 13th NovaUCD Campus Company Development Programme (CCDP) Awards evening took place in the William Jefferson Clinton Auditorium on 20 November.

The aim of the NovaUCD Campus Company Development Programme, which has run annually since 1996 and which is supported by Enterprise Ireland, is to assist entrepreneurs in bringing their innovative ideas from intellectual concepts to fully developed and sound commercial business enterprises.

At the awards evening the promoters of each of the projects which completed this year's Programme had an opportunity to deliver a short 'elevator pitch' before being presented with their certificates. The promoters of the three projects short-listed for awards then presented their business plans. The short-listing and selection of award winners was performed by an independent evaluation panel chaired by Ray Bulger, CEO, Duolog Technologies and which also included Rob Corbet, Arthur Cox; Greg Hogan, Deloitte and Mark O'Donovan, Raglan Capital.

The guest speaker at the Awards evening was the serial entrepreneur Bernie Cullinan, CEO of Clarigen.

Eleven projects completed this year's Programme and to date over 140 projects and 210 individuals have completed the Programme.

Overall Winner – ASimil8

ASimil8, a new e-learning venture, co-founded earlier this year by Paul Groarke and Garrett Hussey won NovaUCD's 2008 start-up award and €5,000 after being declared the overall winner of the 13th NovaUCD Campus Company Development Programme.



Paul Groarke and Garrett Hussey, co-founders, ASimil8

There is currently no convenient way for most students learning languages to practise their language skills other than travelling to foreign destinations which can be expensive and impractical. To address this and related issues in the learning environment ASimil8 has developed a next generation learning platform to provide immersive education for languages and other subjects using virtual world and gaming technologies.

The use of virtual world and gaming technology is designed to engage students in the same way that video games grab and keep their attention. By 'immersing' students in real-life settings where they must use their knowledge, ASimil8 will give students a deeper and more dynamic understanding of their subjects.





Dr Pat Frain, Bernie Cullinan, CEO, Clarigen, Garrett Hussey, Professor Mark Keane, Vice-President for Innovation, Paul Groarke and Tom Hayes, Enterprise Ireland

Paul Groarke, co-founder and CEO, ASimil8, has spent the last 5-years working in the e-learning industry. In the past he has held senior management positions in Baltimore Technologies and other companies. He has managed over 100 product releases and helped to build a number of start-up companies.

Garrett Hussey, co-founder and CTO, ASimil8 has 18 years industry experience. He has been chief architect for a number of companies including Baltimore Technologies. He is an expert on the technology and standards in the e-learning industry. ASimil8 is currently located at NovaUCD.

Runner-ups: Flexitimers and Bioplastech

Two other projects participating on this year's Programme, Flexitimers and Bioplastech received runner-up awards and prizes of €3,000 and €2,000 respectively.

Flexitimers has developed an internet platform that will enable companies to radically change how they recruit and approach the HR function.



Dervla Cunningham and Joy Redmond, co-founders, Flexitimers

Flexitimers was established to address the needs of employers who wish to recruit professionals with experience and skills but not on a permanent basis and professionals looking for flexible (part-time, freelance and contract)

positions and projects. Flexitimers, which is located in NovaUCD with a regional office in Gorey, Co. Wexford was co-founded by Dervla Cunningham and Joy Redmond.

Bioplastech is commercialising a process which converts waste materials to a value-added, environmentally friendly (i.e. biodegradable) plastic. This plastic has numerous potential product applications in the packaging sector as well as in agriculture and biomedicines.



Dr Kevin O'Connor, founder, Bioplastech

Bioplastech is commercialising research which has been undertaken over the last number of years by Dr Kevin O'Connor and his team in UCD's School of Biomolecular and Biomedical Science.

Other Participating Projects

Eight other projects completed this year's Programme.



Participants on the NovaUCD 2008 CCDP

ASTRA-Research is a data management solution venture focusing on health-related research and will provide advice, research support, training and analysis. Dr Mary Codd, UCD School Public Health and Population Science is the promoter of ASTRA-Research.

Biosystems Engineering is commercialising two projects on this year's CCDP. One is developing a thermal process validation service for the Irish food industry while the second is developing a canine





biometric identification system. The promoters are Dr Fergal Tansey and Dr Alexis Pacquit.

Biosystems Engineering, a NovaUCD client company is a spin-out from UCD's School of Agriculture, Food Science and Veterinary Medicine.

DESTinE is developing a specialist software tool enabling schools to assess and profile the strengths and interests of students with special educational needs. Stephanie Fitzgerald, an educational psychologist is the promoter.

eBioTech has developed innovative technologies to remotely diagnose and monitor diseases such as Asthma. eBioTech has emerged from research undertaken in UCD's School of Electrical, Electronic and Mechanical Engineering and the lead promoters are Professor Richard Reilly and Isabelle Killane.

ElectroSim is developing software to significantly accelerate electrostatics in molecular simulations. Dr Niall English, UCD School of Chemical and Bioprocess Engineering is the lead promoter.

ERG Consulting is being established to provide energy and environmental services to the Irish and European building industries. Professor Owen J. Lewis, UCD School of Architecture, Landscape and Civil Engineering is the lead promoter.

EUV Source Solutions is examining the provision of extreme ultra violet light sources and optics to the semiconductor industry. Dr Kenneth Fahy, Dr Fergal O'Reilly and Dr Paul Sheridan, UCD School of Physics are the promoters.

Exergaming Solutions is utilising computer games to aid specific therapeutic exercises to improve the quality and outcomes of rehabilitation interventions. Dr Brian Caulfield and Diarmaid Fitzgerald, UCD School of Physiotherapy and Performance Science and Professor Barry Smyth, UCD School of Computer Science and Informatics are the promoters.

NovaUCD 2009 Campus Company Development Programme

NovaUCD is now accepting applications for the 2009 Campus Company Development Programme which will commence in Q1 2009. If you are interested in applying to participate on this Programme please contact Dr Ciara Leonard.

Contact: For further information contact Dr Ciara Leonard, Project Manager, Enterprise Development, tel: 01-716 3714, email: ciara.leonard@ucd.ie.

NovaUCD 'Entrepreneurs Live!' Seminar Series

The 11th "Entrepreneurs Live!" seminar series, run by NovaUCD in association with Dún Laoghaire-Rathdown County Enterprise Board commenced in early October and ran for 6 weeks. The entrepreneurial guest speakers who took part in this series were:

Dr Steve Collins, co-founder, Havok



Sean Mitchell, founder and CEO, Movidia



Sean Fee, co-founder and CEO, iFoods.tv





Bernard Hensey, founder and CEO, Phive Plasma Technologies



A total of 64 well known entrepreneurs have now participated on this very popular seminar series. The aim of the 'Entrepreneurs Live!' seminar series is to promote a spirit of entrepreneurship among the academic, research and student population at UCD.

The 12th series will commence in February 2009 and further details will be available in the New Year.

Contact: For further information please contact Caroline Gill, t: 01 7163 715, e: caroline.gill@ucd.ie.

Michael Cullen, co-founder and CEO, Beacon Medical Group



Companies at NovaUCD

Twenty-four innovative new ventures, occupying 37 incubation units, or nearly 90% of the available incubation space, are currently located in NovaUCD.

NovaUCD continues to welcome proposals from the promoters of high-quality, knowledge-intensive ventures who are interested in locating in NovaUCD.

Contact: For further information contact Dr Ciara Leonard, Project Manager, Enterprise Development, tel: 01-716 3714, email: ciara.leonard@ucd.ie.

Declan Kearney, founder and CEO Supplierforce.com



Companies in the News

BiancaMed

Dr Conor Hanley, co-founder of BiancaMed, the NovaUCD-based health technology company was among the entrepreneurs named as finalists in the Academic Enterprise Awards Europe 2008. These Awards were the first pan-European awards to recognise researchers who start new businesses. Dr Hanley and BiancaMed was the only Irish-based entrepreneur and company to reach the finals.

Podcasts of four of these seminars are available to download via: <http://www.ucd.ie/nova/news/currentnews/novaneasttitle,20023,en.html>





Dr Conor Hanley

The finalists were grouped into six categories, by industry sector and Dr Hanley was a finalist in the Life Sciences category which was won by Neville McGlenaghan, Peter Flatt, Finbarr O'Harte of Diabetica, a spin-out from the University of Ulster.

BiancaMed was co-founded by Dr Philip de Chazal, Professor Conor Heneghan and Dr Conor Hanley as a spin-out from UCD's School of Electrical, Electronic and Mechanical Engineering.

At the core of BiancaMed's technology platform is a very sensitive motion sensor that detects heart rate and respiration – without having to touch a person - completely wirelessly. The sensor is combined with BiancaMed's sophisticated health analysis software and provides solutions to monitor and help improve the wellness of sleep, health, respiration and fitness.

BiancaMed plans to use its technology to launch a unique baby monitor and a sleep measurement service in the European and US markets in 2009. The BiancaMed Baby Monitor will monitor the quality of a baby's sleep along with the baby's movement and breathing patterns as well as noises.

Established by the by the London-based Science|Business Innovation Board the Academic Enterprise Awards Europe 2008 was the first awards Programme across Europe to focus on university spin-outs and their founders which are often cited as a vital source of innovation in Europe.

The finalists were chosen by a selection committee which included representatives of the 27 universities and research institutes supporting the Programme.

ChangingWorlds

ChangingWorlds, the UCD spin-out which is being acquired by Amdocs for \$60 million has also won two prestigious awards in recent months.

ChangingWorlds, won the 'Company of the Year' award at the 2008 Irish Software Association Awards ceremony. The Award was presented to David Moran, CEO, ChangingWorlds, in recognition of the company's impressive customer successes in the global mobile industry, its product strategy, management team, commitment to innovation and international growth across all of its key territories- Europe, Asia Pacific & the Americas.



Myra Garrett, Managing Partner, William Fry; David Moran, CEO, ChangingWorlds and Shane Dempsey, Director, Irish Software Association

ChangingWorlds also won the CPD (Continuing Professional Development) Company of the Year Award at the annual Engineers Ireland award ceremony. The awards, now in their fifth year, were created to recognise the particular achievements of the top performers in this crucial area of engineering.



John Power Director-General, Engineers Ireland, John McGuinness TD, Minister for Trade and Commerce with David Moran, CEO of UCD spin-out Changingworlds





ChangingWorlds used the Engineers Ireland CPD framework to foster creativity amongst its employees in its Advanced Research Centre at NovaUCD. This allowed the company to tap into the wealth of experience and knowledge embedded in the organisation resulting in the development of the ClixSmart Business Intelligence Manager (BIM) and ClixSmart Ad Personalizer (AP).

Interleado

Interleado, the online marketing software solutions company has announced the release of 'All in One SEO Workbench'.



Peter Cullen, Interleado

This new product automates the manual work associated with search engine optimisation (SEO) campaigns resulting in significant cost savings along with improved website rankings. The product, which is delivered using the SaaS (software-as-a-service) business model is targeted at web design, internet marketing, PR and advertising agencies but can also be used by individual businesses.

It provides SEO professionals with three main benefits, increased productivity in SEO project implementation, improved SEO results and improved online brand awareness.

The 'All in One SEO Workbench' allows users to generate customised reports for their target websites. These reports then allow users to easily see, in a dashboard format, how well each website is optimised and what its visibility level is. Also displayed are the top 3 issues that are preventing each website from attracting more traffic along with a comprehensive list of the critical factors influencing the website's visibility.

Interleado, a NovaUCD client company, was founded in 2007 by Peter Cullen. Prior to founding Interleado, Peter worked for Ericsson and Creative Labs in both hardware and software product development.

Q-Validus

Q-Validus the NovaUCD-based international certification solutions provider was selected as a Dublin regional finalist in the InterTradeIreland All-Island Seedcorn Business Competition 2008, Emerging Category.



David Carpenter, CEO, Q-Validus

Q-Validus is developing and delivering innovative assessment and certification programmes designed to improve collaboration, productivity and competitiveness in the modern workplace.

Earlier this year Q-Validus launched Spreadsheet Safe™ an innovative training and certification programme designed to assist businesses in reducing the risks associated with poor spreadsheet design, usage and control.

The InterTradeIreland All-Island Seedcorn Business Competition is designed to stimulate new start-up activity, improve the quality of investment proposals, accelerate their development and create more opportunities for equity investment.

Enterprise Ireland 2008 Commercialisation Awards

Two UCD researchers Dr David Browne, UCD School of Electrical, Electronic and Dr Denis Dowling, Director, UCD Surface Engineering Group Mechanical Engineering have been presented with Enterprise Ireland Commercialisation Awards in recognition of the successful licensing of technology developed by them to industry.





Dr David Browne, Jim Lawler, Enterprise Ireland's Director of Industrial Technologies Research Commercialisation and Dr Jimmy Devins TD, Minister for Science, Technology and Innovation



Dr Denis Dowling, Jim Lawler, Enterprise Ireland's Director of Industrial Technologies Research Commercialisation and Dr Jimmy Devins TD, Minister for Science, Technology and Innovation

NovaUCD LinkedIn Group

NovaUCD has established a NovaUCD LinkedIn Group.

The purpose of the NovaUCD LinkedIn Group is to connect together the NovaUCD community which includes entrepreneurs, innovators, researchers, staff, the NovaUCD network of professional contacts along with any individual who is based or has been based at NovaUCD or is otherwise linked with NovaUCD.

If you wish to become a member of this group please use the URL below or visit the LinkedIn website, www.linkedin.com, and search for 'NovaUCD' under 'Groups'.

<http://www.linkedin.com/e/qis/149865>

Contact: For further information contact Micéal Whelan, Communications, tel: 01-716 3712, email: miceal.whelan@ucd.ie.

