



University College Dublin  
An Coláiste Ollscoile, Baile Átha Cliath

# Report of the **President**

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September 2016 – August 2017



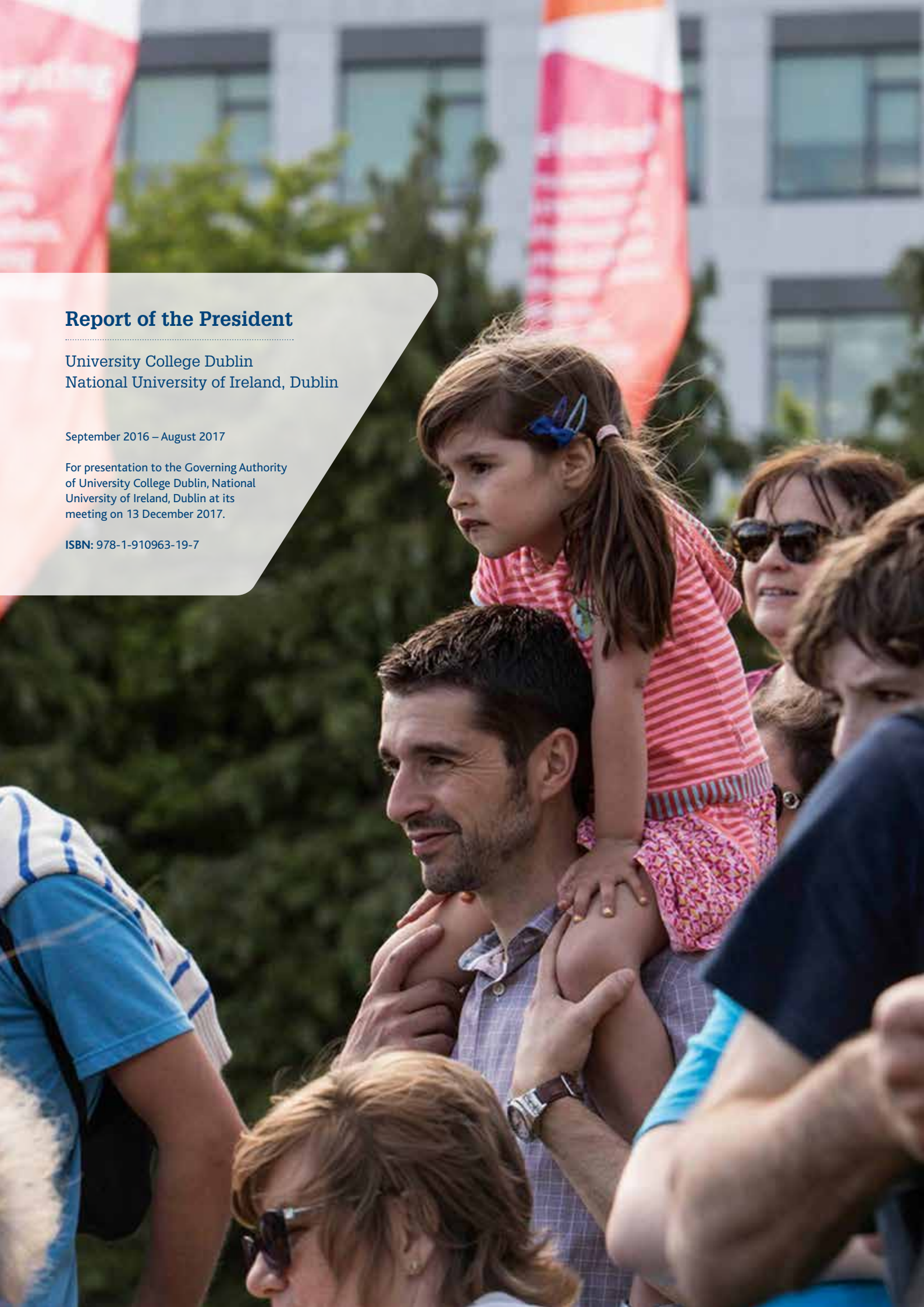
## Report of the President

University College Dublin  
National University of Ireland, Dublin

September 2016 – August 2017

For presentation to the Governing Authority  
of University College Dublin, National  
University of Ireland, Dublin at its  
meeting on 13 December 2017.

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# Overview by the President

I am happy to present to you my fourth report as President of University College Dublin. As you will see as you read through our many accomplishments, this great University continues to build on our excellent track record of commitment to the flourishing of society, nationally and globally.

2016/17 has been a busy but productive year. Our recruitment has held up strongly, both nationally and globally, reflecting our reputation for quality education and student experience.

In terms of our research reputation, we continue to make progress in citations per faculty, demonstrating the quality of our research output. Conscious of the impact of various rankings, we continue to perform well in areas under our control, and have maintained strong output against a backdrop of stagnant State investment.

We have seen an increase of eight places in the QS World University Rankings, the largest upward rankings movement since the 2008 global financial crisis. In this year's QS World Subject Rankings UCD is the number one university in Ireland for 40 of the 43 subjects we offer. The QS Graduate Employability Rankings also ranked us number 1 in Ireland and number 75 in the world, the only Irish university to enter the top 100 by this measure. We are also leaders in innovation and research – ranked number one for research in Ireland according to the Times Higher Education Rankings 2017; and two of our Master's business programmes are also ranked in the Financial Times Global Top 50.

We have made significant progress towards the objectives of our Strategy over the last year, and we have now set targets against the Key Performance Indicators agreed with the Governing Authority, allowing us to monitor this progress.

Over the past year, all senior leaders and managers within the University, including the University Management Team, have undertaken a leadership training programme. This training will enable our entire university community to even more effectively contribute to the implementation of our strategy, and provides a good foundation for next year's introduction of a new performance development system, Performance for Growth (P4G).

## Education

The University-wide curriculum review, which concluded this year, involved an enormous collaborative effort to identify a set of improvements which will be implemented in the 2018 academic session. There has been a significant increase in collaborative teaching programmes across the University community, and the use of new technologies for more effective student learning and support.

The number of CAO entry routes to our programmes has decreased, maximising student flexibility and allowing students to affirm their interest and commitment to a subject they wish to specialise in. We continually seek to widen the range or routes of entry into UCD, to ensure we widen participation for under-represented groups, and there has been improvement in achieving student diversity with the population now at 29%.

You can read more about our educational achievements in the Education section of the report.

## Global UCD

Since the launch of UCD's Global Engagement Strategy in September 2016, there has been a great deal of activity, and significant progress has been made in achieving our strategic objectives. International student numbers increased further to 7,549 and we now have over 130 different countries represented on our Dublin campuses. Throughout the year we held several events to celebrate the cultural diversity of our UCD community. Our international students add enormously to the quality of campus life and to the educational experience of our students. The Global Engagement section of this report contains more detail.

## Equality, Diversity and Inclusion

We recognise both the opportunities and the challenges associated with equality, diversity and inclusion. Our challenges include the need to remove barriers to equality which exist for members of our University community. The UMT Equality Diversity and Inclusion (EDI) Group and a number of sub-groups have taken a lead across a number of key areas, including communications and events, data, disability, ethnic diversity, gender equality, LGBTI and widening participation of under-represented students. The Athena Swan

UCD availed of a glorious opportunity to showcase our amazing sport and campus facilities in Summer 2017 by hosting the pool games for the Women's Rugby World Cup.

Bronze Award to UCD in March this year provided recognition of the University's understanding of and plans for gender equality, and is testament to the commitment and engagement of what is now the Gender Equality Action Group, led by Vice-President for Research, Impact and Innovation, Professor Orla Feely.

I was delighted to appoint Professor Colin Scott as Vice-President for Equality, Diversity and Inclusion in February 2017. This appointment raises the profile and expectations of EDI activities on campus and the capacity for external engagement with government and public agencies, with industry and NGOs, and also internationally, ensuring that equality, diversity and inclusion always has high priority in our decision making.

## Research, Innovation and Impact

The past year has seen continuing strong performance by UCD in research, innovation and impact, with successes in major funded programmes as well as in individual scholarship. UCD leads two of the four national research centres announced by Science Foundation Ireland (SFI) this year: the BEACON Bioeconomy Research Centre and the I-FORM Advanced Manufacturing Research Centre. Through successes such as these, the value of research grants registered grew to €97.5 million this year - this is a strong figure, particularly given that it does not yet include the two new research centres, which will be registered in the next financial year. These and many other successes are described in the Research, Innovation and Impact section of this report.



## Overview by the President

Right: Chinese Culture workshops at the UCD Festival.

Far right: Leinster Rugby Coach Adam Griggs at the centre of the scrum for Leinster Rugby Mini Drills at the UCD Festival.

Below: The first time the UCD Foundation Day Medal is presented outside Ireland – UCD President, Prof Andrew Deeks presents the medal to Colm Tóibín in recognition of his distinguished literary achievements.

## Brand and Reputation

There is no doubt that global universities have to communicate their message and build awareness of their achievements and their distinctiveness among a wide array of audiences. Over the past year University Relations has undertaken extensive consultation and market research to define that message for UCD. The kernel of the message is taken from John Henry Newman's Idea of a University in which he expounds the value of 'True enlargement of mind.' This takes us beyond the classroom and presents an ambition and ethos that rings true for our community. Translated from its 19th century origins into 21st century parlance, the campaign message is 'Think Bigger' and connects with the foundation, history and heritage of UCD, providing the prompt to the wider community of scholars, researchers, staff, students and alumni. University Relations has developed a suite of materials that will be rolled out over the coming year.

## Strategic Partnerships

Over the last year we have made significant progress in building partnerships with organisations based here in Ireland and internationally in the areas of talent development, research and innovation and corporate social responsibility. Building partnerships with industry and other organisations is crucial to developing



graduate recruitment and internships and enabling students to maximise opportunities. The QS Graduate Employability 2018 rankings placed UCD 75th in the world and number 1 in Ireland this year, and we continue to strengthen our relationship with industry through building major strategic partnerships with a select number of organisations.

In December 2016 a very exciting strategic partnership was announced between Origin Enterprises and UCD, which will put Irish research at the forefront of new and innovative approaches for future farming systems. The multidisciplinary research teams at UCD will use our research expertise in data science and agriculture, together with Origin's industry experts, to address the issue of crop sustainability, a major global food security challenge.

We have built on our strategic partnership with Intel, and last year I was delighted to present the first 15 awards of the UCD-Intel Masters Student Scholarship Programme. This programme supports the education of 64 UCD postgraduate students in nanochemistry, computer science, electronic and computer engineering and nanotechnology over the coming years to address areas of critical skill shortage in the Irish economy.

Our partnership with Dún Laoghaire Rathdown County Council has grown significantly in the last year and I was delighted that they came on board as the major sponsor of UCD Festival. Through our partnership with the DLRCC Arts Office, two of our College of Science artists in residence, Meadhbh O'Connor and David Beattie have benefited from their support. The artists are based at UCD Parity Studios, which began in the College of Science in 2013, offering year-long residencies to professional artists who are interested in developing their creative work in a multidisciplinary environment. The studios provide a unique platform for sustained engagement with other researchers and a supportive environment for interdisciplinary enquiry, across all areas of research at UCD.

I was delighted to sign partnership agreements with Microsoft, Credit Suisse, Bristol Myers Squibb and PwC over the last year. One area of engagement with Microsoft sees a collaboration on a Professional Diploma in Education Studies (Computational Thinking) to equip secondary school teachers in the emerging area of computer science education, in preparation for the introduction of the subject to the Leaving Certificate syllabus.





Our partnership with PwC solidifies our long-standing relationship, supporting the development of high-performing talent, together with thought leadership and innovation. This includes collaboration on internship and academic programmes.

I am pleased that many of these partnerships encompass a corporate social responsibility programme, which is an important component in our engagement with our community.

Working together with our strategic partners enables access to facilities such as the Science outreach lab to students from DEIS schools, thus widening participation and access to higher education, amongst other initiatives.

## Reconnecting with Alumni – Wherever they are

On the day our students graduate, putting on a cap and gown may signal the end of their student experience, but it doesn't mean their link with UCD is broken. As a graduate, they are automatically part of an ever-growing global alumni community of more than 246,000 leaders, creators and change-makers living in more than 170 countries, bound together by a shared University connection. Over the last year our influential alumni continued to be one of the University's greatest strengths, and speak to our reputation as Ireland's global university. Their continued success sends a powerful message – UCD alumni create meaningful change at all levels of society, both nationally and globally.

During the past 12 months we have continued to work hard developing and strengthening our relationship with alumni. We have seen a 50% increase in alumni staying connected to each other and to UCD through a tailored programme of events and communications. This programme aims to continue to support our alumni, whether they are newly graduated or entering a new chapter after retirement. We are now regularly updating a record-breaking 150,000 alumni about developments at UCD on an ongoing basis, and this year we welcomed some 22,000 alumni to events held across the globe.

In November at the 2016 UCD Alumni Awards, we celebrated with pride the outstanding global achievements of ten alumni who uphold values that UCD holds dear – integrity, excellence, collegiality,

engagement, creativity and diversity – values we believe are in the DNA of the University. Awarded on the night for their contribution on the world stage included alumni like the Irish Ambassador to the USA H.E. Anne Anderson who received the award for Arts and Oscar winner Benjamin Cleary who received the award for Law.

Many of our alumni making headlines around the world featured in September's *Connections* magazine. Read by 350K people globally, this year's magazine celebrated the global achievements of our alumni who are exploring, leading, learning and making a difference.

Over the last year, a great privilege for me was having the honour of welcoming graduates to some of the 80+ alumni celebrations and events that took place across the globe – many of which were held with the support of our 48 alumni chapters around the world. This year we held events across Europe, Dubai, China, Sri Lanka, Hong Kong, Singapore and India. A particular highlight in February was the awarding of the UCD Foundation Day Medal in New York to notable arts and humanities alumnus Colm Tóibín in recognition of his outstanding literary achievements.

One of my personal highlights of the last year was in June when we held the UCD Festival on campus, welcoming more than 12,000 alumni, students, faculty, staff and the local community to campus to celebrate the thinkers, creators, educators, innovators and fun makers of UCD. The day was an opportunity for guests to enjoy a multidisciplinary programme of over 60 events that celebrated the very best that the UCD has to offer, as well as the opportunity to rediscover the campus, reconnect with old friends and network with other alumni and members of the UCD Community. The Festival also celebrated the global footprint of UCD's alumni through satellite Festival events organised by our alumni in London, New York and Chicago.

I would like to take this opportunity to thank the many thousands of alumni for the time, effort and resource they put into our University, and in particular for supporting the student experience through giving back their time, through our student-alumni mentoring programme, or sharing their talent as speakers or advisors with alumni and students.

Again this year, as we have seen our alumni becoming ever more engaged with UCD, we have seen an increase of a third in the number of alumni financially supporting students at UCD through our UCD Champions – Changing Futures Campaign. I would like to thank all

## Overview by the President

alumni who donated through our regular giving programme, which this year supported twice as many scholarships as last year, and also supported the student experience by funding Library, Campus Development and Global Engagement priorities.

The continued success of our alumni globally and their growing willingness to support us financially will continue to make UCD a truly outstanding University for many years to come.

## Major Gifts

Of course our Changing Futures Campaign is only part of the philanthropic support we have received this year, and I would like to thank all our donors for their generous support and commitment to progressing UCD's strategic objectives throughout the year.

Gifts to UCD have made an impact right across the University – helping to deliver ground-breaking research, nurturing the leaders of tomorrow and enriching lives through scholarship and learning.

Throughout the year I observed time and again the tangible effect that philanthropy has on every aspect of the University. From celebrating the achievements and successes of the UCD Sutherland School of Law; to welcoming scholars from disadvantaged communities to gain a world-class education; to rejoicing with our talented and skilful athletes as they reap their medals; to witnessing the eagerness and enthusiasm as a new programme in a particular discipline gets underway. It is, without doubt, truly transformational.

Below left: Can you feel it? Virtual Reality at the UCD O'Brien Centre for Science at the second annual UCD Festival.

Below right: UCD Festival included a pop up Teddy Bears hospital where our younger visitors enjoyed checking the health of their teddies with the help of some of UCD's fantastic student doctors. Pictured are medical student Aodhagan McGoohan with Robyn Cogan aged 5 from Sandyford.

It was also very encouraging to work with the substantial number of our corporate partners who support the University philanthropically. These valued partners understand that the competitiveness of Ireland is dependent on universities which educate our future leaders in all spheres of life and generate intellectual property and innovation.

2016/17 has been a record year for philanthropic gifts to UCD. In particular, I am excited that an extraordinary gift will enable us to build a unique 'Future of Learning' environment to ensure we remain at the forefront of business education, and continue to provide our students with an education that is relevant today and will continue to be relevant tomorrow.

We rely now more than ever on the generosity of our donors and supporters, who give their time, counsel and financial resources to UCD. Resilience from the unpredictability of government funding is crucial for UCD to prosper. Our biggest challenge remains the funding crisis, but thanks to the generosity of thousands of alumni and friends, our fundraising programmes contribute significantly to our success in providing a world-class student experience and performing research which contributes to the flourishing of our society.

I am indebted to our hardworking Foundation Boards: UCD Foundation, Ireland; Friends of UCD, UK; and John Henry Newman Foundation, USA. Their ongoing loyalty and dedication is greatly appreciated.

The need continues to be great, and we will only be able to achieve our ambitious plans and true potential through transformational financial gifts from our supporters.

**Professor Andrew J Deeks**  
UCD President

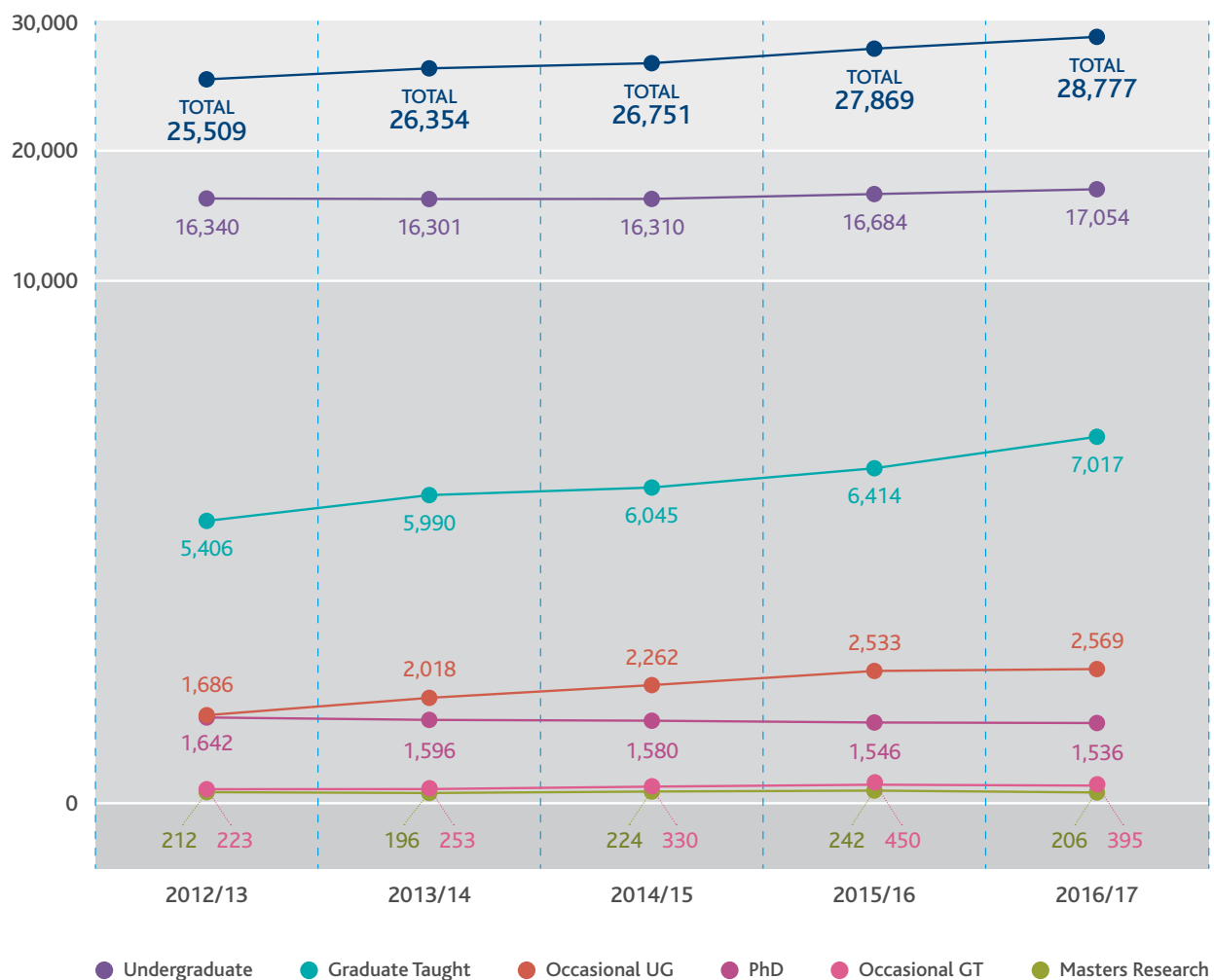




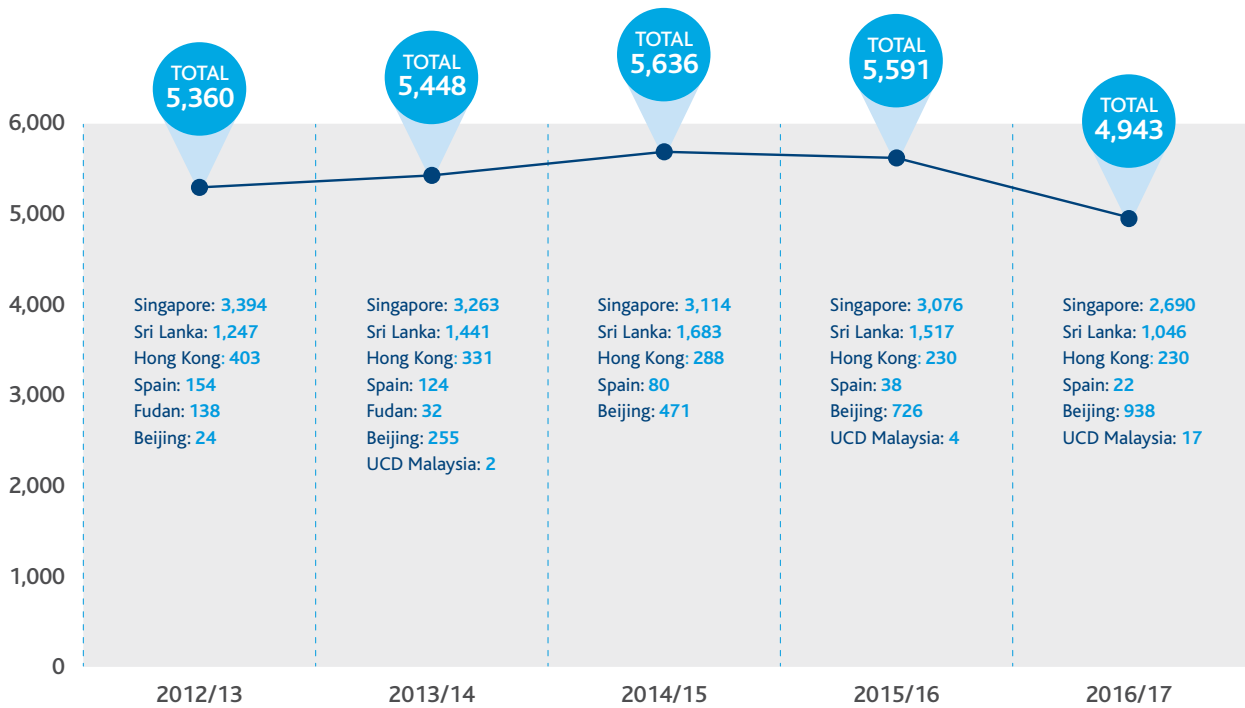


# UCD by Numbers

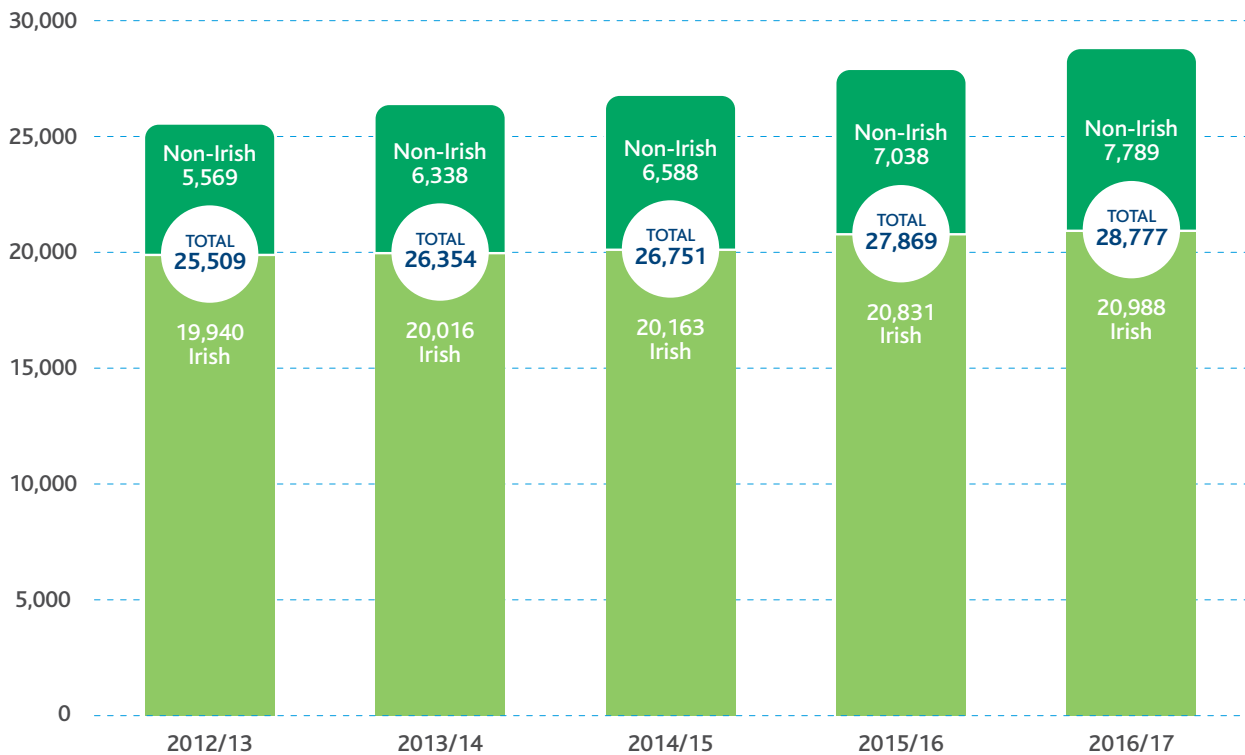
## UCD Student Statistics Ireland Campuses



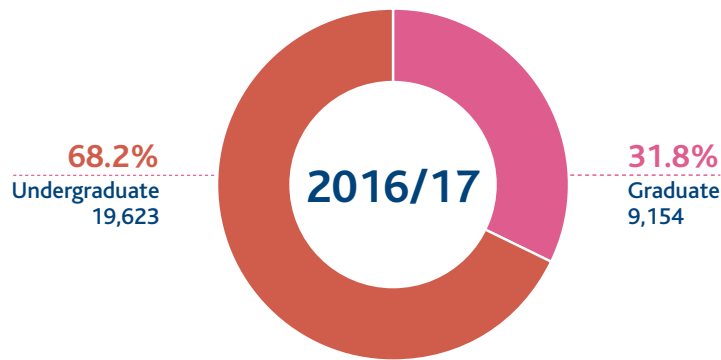
## UCD Student Statistics Overseas Operations



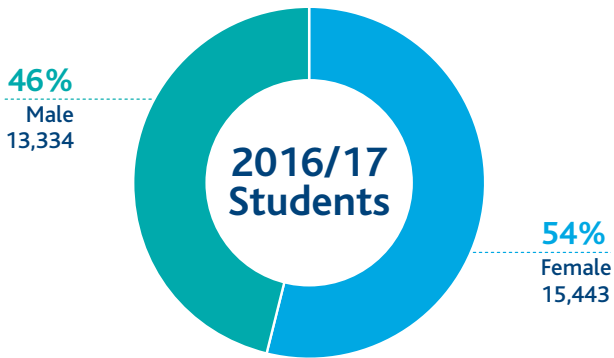
## UCD Students in Ireland



## UCD Undergraduate/Graduate Breakdown



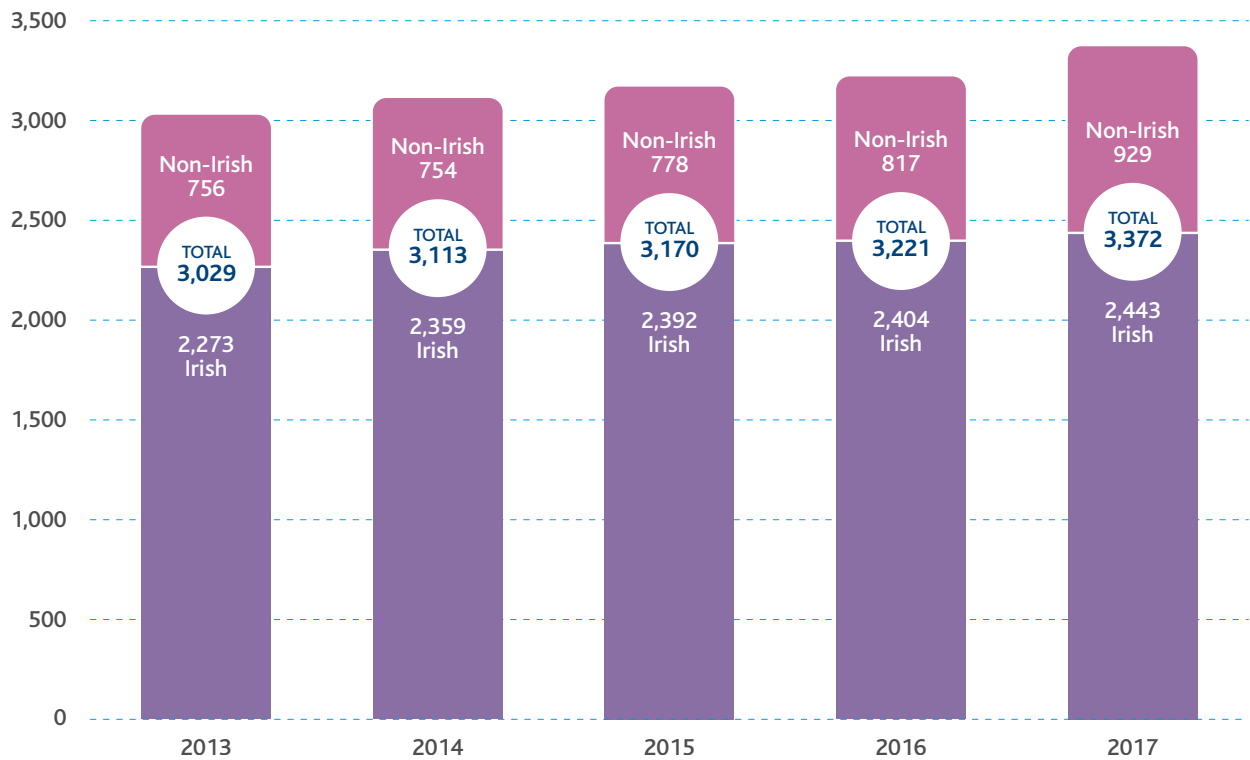
## UCD Male/Female Students



## UCD Male/Female Staff

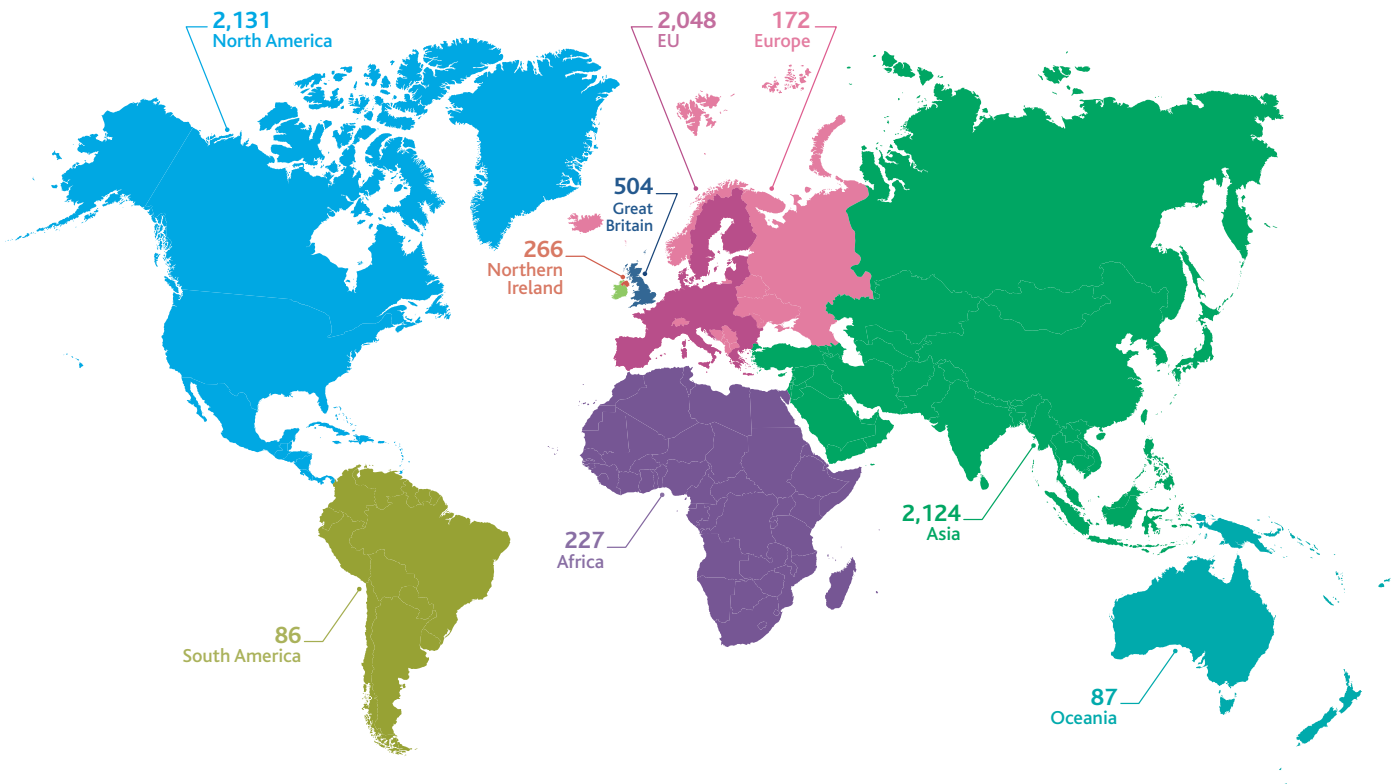


## Staff Statistics in Ireland



## UCD International Students by Region

2016/17



## UCD Undergraduate and Graduate Numbers by Discipline

Ireland 2016/17

Subject Area	Undergraduate	Graduate	Total
Generic programmes and qualifications	295	–	295
Education	–	587	587
Arts and humanities	3,994	395	4,389
Social sciences, journalism and information	1,622	755	2,377
Business, administration and law	3,834	2,392	6,226
Natural sciences, mathematics and statistics	2,206	967	3,173
Information and Communication Technologies (ICTs)	422	670	1,092
Engineering, manufacturing and construction	1,632	898	2,530
Agriculture, forestry, fisheries and veterinary	1,773	537	2,310
Health and welfare	3,674	1,935	5,609
Services*	171	18	189
<b>Total</b>	<b>19,623</b>	<b>9,154</b>	<b>28,777</b>

Figures are classified under the International Standard Classification of Education (ISCED) as used by the Higher Education Authority (HEA) and more widely to facilitate comparison of education statistics across countries on the basis of uniform and internationally agreed definition.

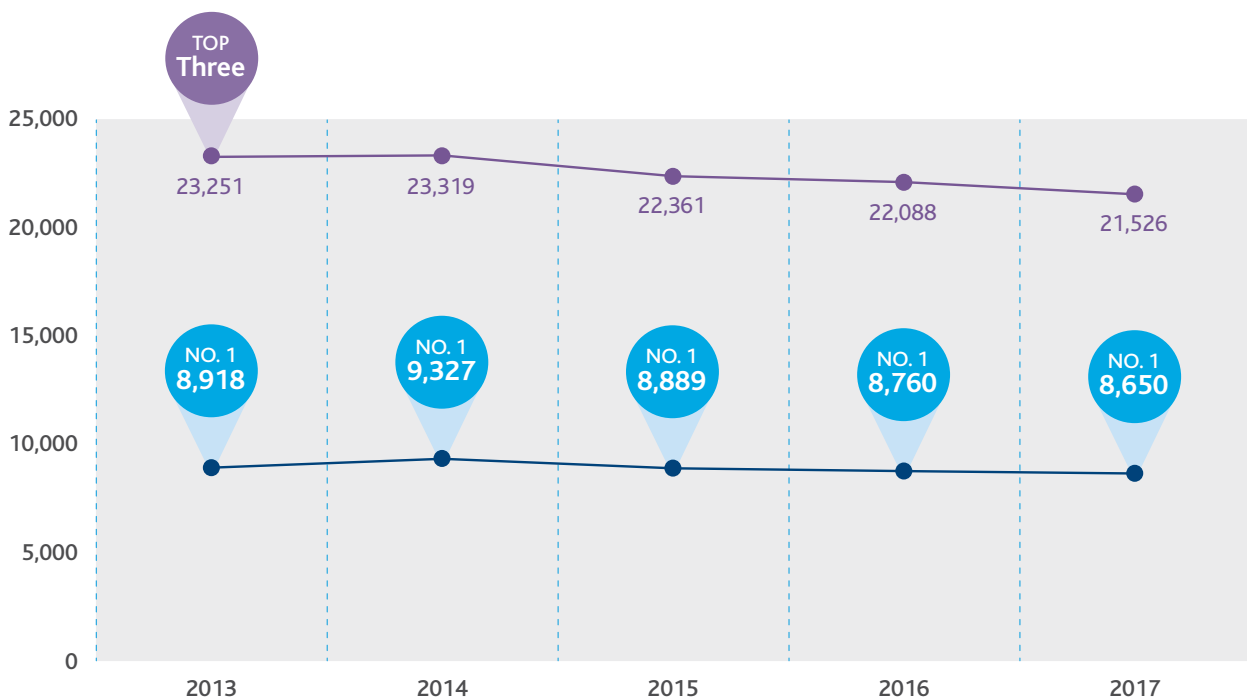
\* Services include programmes such as Safety and Health at Work.

## Top 20 Countries UCD Alumni\*

 <b>192,912</b> (1) Republic of Ireland	 <b>2,839</b> (8) Hong Kong	 <b>1,124</b> (15) Australia
 <b>12,694</b> (2) United States	 <b>2,667</b> (9) Germany	 <b>816</b> (16) Malaysia
 <b>10,380</b> (3) Singapore	 <b>2,665</b> (10) China	 <b>722</b> (17) Belgium
 <b>4,888</b> (4) United Kingdom (England, Scotland, Wales)	 <b>2,035</b> (11) Spain	 <b>671</b> (18) Netherlands
 <b>4,312</b> (5) Sri Lanka	 <b>1,550</b> (12) Canada	 <b>480</b> (19) Switzerland
 <b>3,229</b> (6) Northern Ireland	 <b>1,302</b> (13) Italy	 <b>382</b> (20) Austria
 <b>2,875</b> (7) France	 <b>1,184</b> (14) India	

\* Alumni for whom we hold contact details.

## CAO 1st Preferences





# Education

## Introduction by the UCD Registrar and Deputy President

Valuing, engaging and empowering people is critical to delivering excellent service to our students, colleagues and the wider community. I'm pleased to report on progress across our strategy for the past year and to highlight the achievements of our faculty, professional and administrative staff in delivering our ambitious agenda. In an ongoing period of financial challenge, we have continued to innovate both in education and in enhancing the student experience.

Over the past year, we have seen collaboration across the University community, from the development of new technologies for personalised student support through to the delivery of the first Massive Open Online Course (MOOC) and the establishment of Communities of Practice under UCD Agile. The University-wide curriculum review which concluded this year, arose from an enormous collaborative effort in identifying improvements which will be implemented through programmes in the 2018 academic session.

Supporting and recognising excellence in faculty and staff and encouraging their continued professional development, ensures our students are exposed to the best experience inside and outside the classroom preparing them for success beyond university. The numbers of faculty taking qualifications in university teaching has increased, and we have introduced the Teaching Excellence and Outstanding Contribution awards which not only recognise excellence in teaching, but also the contribution to the student experience.

This year UCD was also ranked in the QS University rankings as number 1 in Ireland and number 75 in the world for employability. This achievement coincides with the launch of the UCD Embark and UCD Advantage Awards, which encourage students to recognise the value of extra-curricular activities in their personal and professional development.

We have reduced the number of CAO entry routes to our programmes, maximising student flexibility and allowing students to affirm their interest and commitment to a subject they wish to specialise in. We continually seek to widen the range or routes of entry into UCD to ensure we widen participation for under-represented groups and there has been improvement in achieving student diversity with the population now at 29%.

We believe the entire university experience is key to student success, and in recognition of this approach, this year two new roles were created, the Dean of Undergraduate Studies and the Dean of Students. In conjunction with Professor Barbara Dooley, Dean of Graduate Studies and Deputy Registrar, I am pleased to welcome both Associate Professor Marie Clarke as Dean of Undergraduate Studies and Professor Jason Last as Dean of Students. Together with our colleagues across the University, we look forward to providing our students with a holistic education and experience that is both student-focussed and research-led.

**Professor Mark Rogers**  
Registrar and Deputy President

## Strengthening and Enhancing Programmes and Disciplines

### Curriculum Review

The report of the Curriculum Review was published in March 2017. This institutional initiative was a large-scale and ambitious project that led to the successful articulation of programme outcomes across the taught programme portfolio. Programme enhancement themes were identified by the University Management Team to inform the Curriculum and Enhancement (CRE) process, namely, embedding research in the undergraduate experience; the development of discipline-specific as well as a wider set of attributes and capabilities; effective and efficient definition and assessment of outcomes; and expansion of the use of technology to enhance learning

Through the CRE process, programme vision and value statements and programme outcomes have been articulated for 598 taught programmes. This process of curriculum mapping afforded programme review teams the opportunity to focus on development and change. Opportunities to engage with students on curriculum development enabled positive change and sharing of good practice.

To promote programme-focussed assessment, a key output of the report, events featuring international speakers took place, culminating in the *Linking Assessment, Feedback and Learning Symposium* arranged by UCD Teaching and Learning in May this year, attended by 120 faculty and staff. The UCD student panel noted both the importance of early feedback on their work and the planning of assessments across modules and programmes. They also highlighted the value of early 'low stakes' assessment (either ungraded or low-weight graded) in helping students to gauge progress.

### Modular Flexibility and Choice

The development of a new four-year BA Humanities degree and a new four-year BSc Social Sciences degree has introduced a range of exciting and innovative programmes underpinned by cutting edge research conducted by faculty. The first cohort of these students will commence their studies in September 2018. These new degree programmes promote coherence within subjects, and their four-year duration enables the introduction of internships, work placements and study abroad opportunities.

### Student Learning and Assessment

A comprehensive survey of all students was carried out to identify how the University could improve assessment supports for students. A key finding included a requirement for exam timetables to be integrated into each student's personal UCD online calendar. In response, UCD Registry and UCD IT Services developed an innovative online timetable which also includes details of exam locations and seat numbers. It was introduced in Semester 1 of academic session 2016/17.

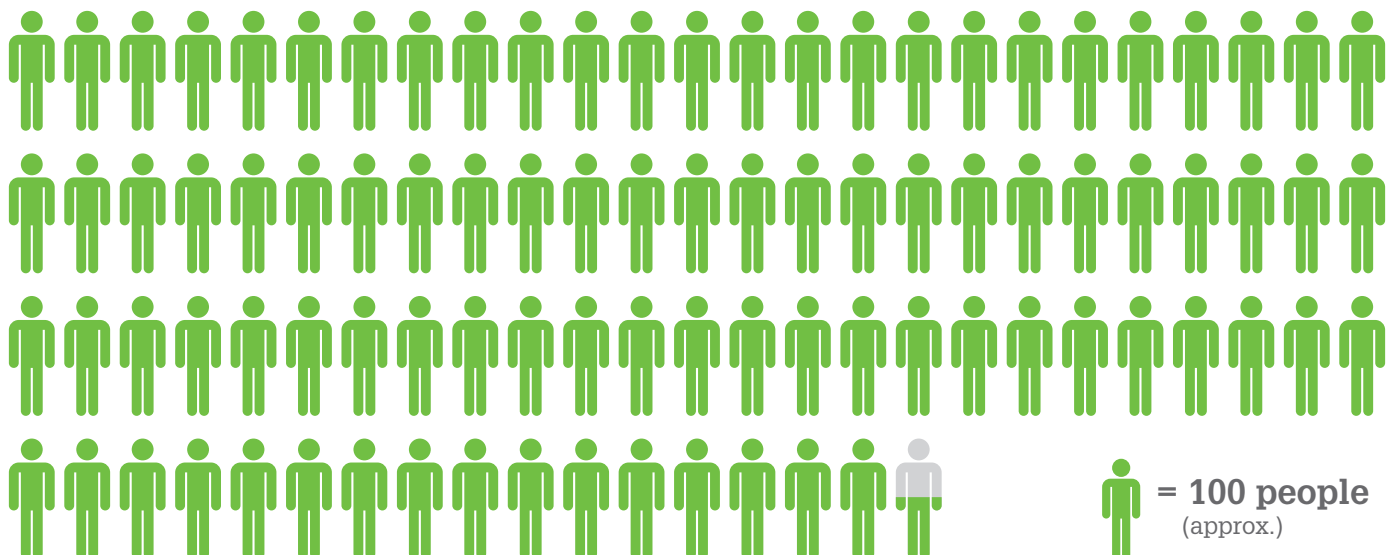
Systems were also enhanced to assist module co-ordinators in facilitating early publication of provisional results, in turn allowing students to adjust their learning in preparation for later assessment components.

### Widening Participation and Supporting Lifelong Learning

UCD is pioneering the creation of an inclusive campus and is to the forefront in the development of a systematic approach to mainstreaming access and widening participation. This past year has resulted in significant milestones on the journey from the margins to mainstream. Notably 29% of the undergraduate student population of over 17,000 is now drawn from targeted under-represented groups.

**9,154** UCD Graduate Students in Ireland

**22%** Increase in the Past Five Years



Progression rates for these students are almost identical to those of the overall student population.

Progress too is evident in the development of an inclusive campus. Phase 1 focused on specific underpinning components, including strategy, structures, academic processes, and the built and technical infrastructure. Over the past year, Phase 2 has focused on encouraging and harnessing the pockets of commitment and enthusiasm and has resulted in participation in a wide variety of workshops and seminars on inclusive practice.

### Highlights

- In December 2016, the Minister for Education and Skills, Richard Bruton TD officially opened the UCD Access and Lifelong Learning Centre. The Centre aims to be the 'bridge to inclusion' offering connections, engagement and relationship building between communities that may be distant from higher education and the University community.
- As part of the outreach and engagement programme, UCD students welcomed 180 potential students from 'link' schools, Further Education colleges, Adult Guidance centres, Enable Ireland and the Visiting Teachers Service. This provided an opportunity to experience university life up close, including lectures and tutorials. Lectures and tours were also offered as part of National Heritage Week and events arranged to coincide with the AONTAS Adult Learners' Festival.
- This year Widening Participation Scholarships were presented to 81 students. Since the first Scholarship Awards was held in 2012 where 12 students were awarded scholarships, 219 students have received scholarships. To date UCD Alumni and corporate donors have donated over €1 million to fund these valuable scholarships.
- Open Learning UCD's innovative way of offering undergraduate modules to all learners was expanded significantly and now offers over 200 modules across 25 schools.

Pictured at the launch of the UCD Access and Lifelong Learning Centre in December 2016 are (l-r): Professor Mark Rogers, UCD Registrar and Deputy President; Dr Anna Kelly, Director, UCD Access and Lifelong Learning; Minister for Education and Skills, Richard Bruton TD; and Professor Andrew Deeks, UCD President.



- As part of the mainstreaming and inclusive practice initiative, UCD published the *Universal Design for Curriculum Design: Case Studies from University College Dublin*, showcasing practical ideas for incorporating inclusive design in pedagogical practices. Through the National Forum for the Enhancement of Teaching and Learning in Higher Education, UCD in collaboration with AHEAD, also developed a Digital Badge in universal design for teaching and learning.
- This year the UCD conferring ceremonies were expanded to include awards to the students of the University Access Programme and students from the Open Learning Certificate course in Genealogy.
- In June UCD was pleased to welcome Diane Reay, Professor of Education at Cambridge University, as keynote speaker at the UCD Access Symposium. Professor Reay's address focused on inequality and widening access and participation and was complemented by the 'Inclusive Practice in UCD' showcase which demonstrated examples of good practice at UCD. Seminars exploring student support strategies took place throughout the day, and the RTE journalist and broadcaster, Dr Gavin Jennings, conducted a public interview with UCD Access graduates.
- The University Widening Participation Committee, led by Professor Grace Mulcahy has been instrumental in driving the UCD vision for access and its work this year included focus on processes and supports, including recruitment and admission, assessment and campus facilities.

### Learning Through Research

Over €60,000 was allocated to nine projects under a new seed funding scheme 'Learning through Research', launched in October 2016. The scheme aims to support the design and development of a 'spine' of research activities within undergraduate programmes to enhance student specialist knowledge and transferable skills. The scheme is an output from the research of the UCD Fellows in Teaching and Academic Development, the Curriculum Review and Enhancement project, and the Learning Through Research symposium.

### Technology-enhanced Learning

Our strategic goal is to empower the UCD community by enhancing University life through new and emerging digital technologies. Building on UCD's longstanding provision of online learning opportunities and supported by Universitas 21, UCD launched its first open online course 'Planetary Urbanisation' in October 2016. Developed by the UCD School of Geography in collaboration with UCD IT Services, the course is free and open to everyone. Social learning, social media and interactive learning technologies play an increasingly important role in bridging academic research and education to foster an excellent student learning experience and UCD is leading the way.

To provide an institutional platform for faculty and staff to share experience in implementing educational technologies in teaching and assessment practice, UCD offers both pedagogical and technical support through EdTECx Talks and workshops. Now in its third year, the EdTECx series, a community event delivered by UCD IT Services and UCD Teaching and Learning, in conjunction with the School-based network of educational technologists, has proved to be an excellent way of introducing and showcasing technologies for teaching and learning.





Pictured at the UCD Access Symposium in June 2017 (l-r): Professor Grace Mulcahy, UCD School of Veterinary Medicine; Professor Diane Reay, Cambridge University; Professor Andrew Deeks, UCD President; Dr Anna Kelly, Director, UCD Access and Lifelong Learning; and Professor Mark Rogers, UCD Registrar and Deputy President.

### Widening Participation – Undergraduate Programmes (Certificates, Diplomas and Degrees)

	2015	2016	2017
Socio-economically disadvantaged students (full time degree only) (1)	1,746	1,320	1,406
Students reporting a Disability (full time) (2)	1,349	1,473	1,564
Students reporting a Disability (part time)	48	51	59
Mature students (full time) (3)	967	1,021	1,060
Mature students (part time)	814	836	796
Part Time and Flexible Learning (4)	1,006	1,064	910
QQI-FET (full-time)	262	178	291
<b>All UCD Widening Participation Students</b>	<b>4,437</b>	<b>4,755</b>	<b>4,965</b>
<b>Total UCD Undergraduate students</b>	<b>16,310</b>	<b>16,687</b>	<b>17,054</b>
<b>% Widening Participation Students</b>	<b>27.2%</b>	<b>28.5%</b>	<b>29.1%</b>

New Entrants to Undergraduate Degrees – supplementary admission routes	2015	2016	2017
HEAR	234	269	210
DARE	153	233	246
QQI-FET	72	100	99
Mature	233	193	184

#### Notes

- (1) students from socio-economic groups D, F & G (defined by Central Statistics Office)
- (2) students who report a disability either through registration for supports with Access and Lifelong Learning; admission through DARE; OR indicating a disability on the Equal Access Survey
- (3) students aged 23 years and over on year of entry to UCD, with no previous undergraduate degree
- (4) Part Time, including Open Learning

## University Teaching and Learning – Recognition and Professional Development

### Teaching and Learning Awards

Highlighting the importance that UCD places on high quality teaching, learning, assessment and curriculum design, two new Teaching and Learning Award schemes were launched in February 2017. For the first time students submitted nominations and the content and volume of their nominations (1,675, 84% of nominations) is testament to the value they place on the role of faculty and staff in their learning experience.

This was also the first year that faculty and staff could acknowledge the work of colleagues; 735 teams and individuals were nominated, and 73 college-level awardees were identified in the ensuing application and adjudication phase. A further application and selection process, resulted in 13 University Teaching and Learning awardees who were presented with their awards at a celebration in September 2017.

The nominations highlighted engaging and passionate communication of expert knowledge, pioneering learning methods, dynamic, visionary and inspiring teaching and curriculum development and leadership. They also applauded personal touches, approachability and the time taken to support and encourage students to overcome difficulties. Students described how they were motivated by their teachers' passion for their subject, and how their teachers were role models who challenged them to reach their potential through thought-provoking yet accessible, interactive learning.

### Professional Programmes in Teaching and Learning

The number of UCD faculty taking professional programmes in University Teaching and Learning continues to grow with almost 50 graduates across three programmes. The programmes, delivered by UCD Teaching and Learning, provide faculty at various stages of their careers with opportunities to review and improve their teaching skills and their understanding of approaches and theories in effective higher education. Modules offered include Embedding Research in Teaching, Assessing for Teaching and Learning and Active Learning with Technology.

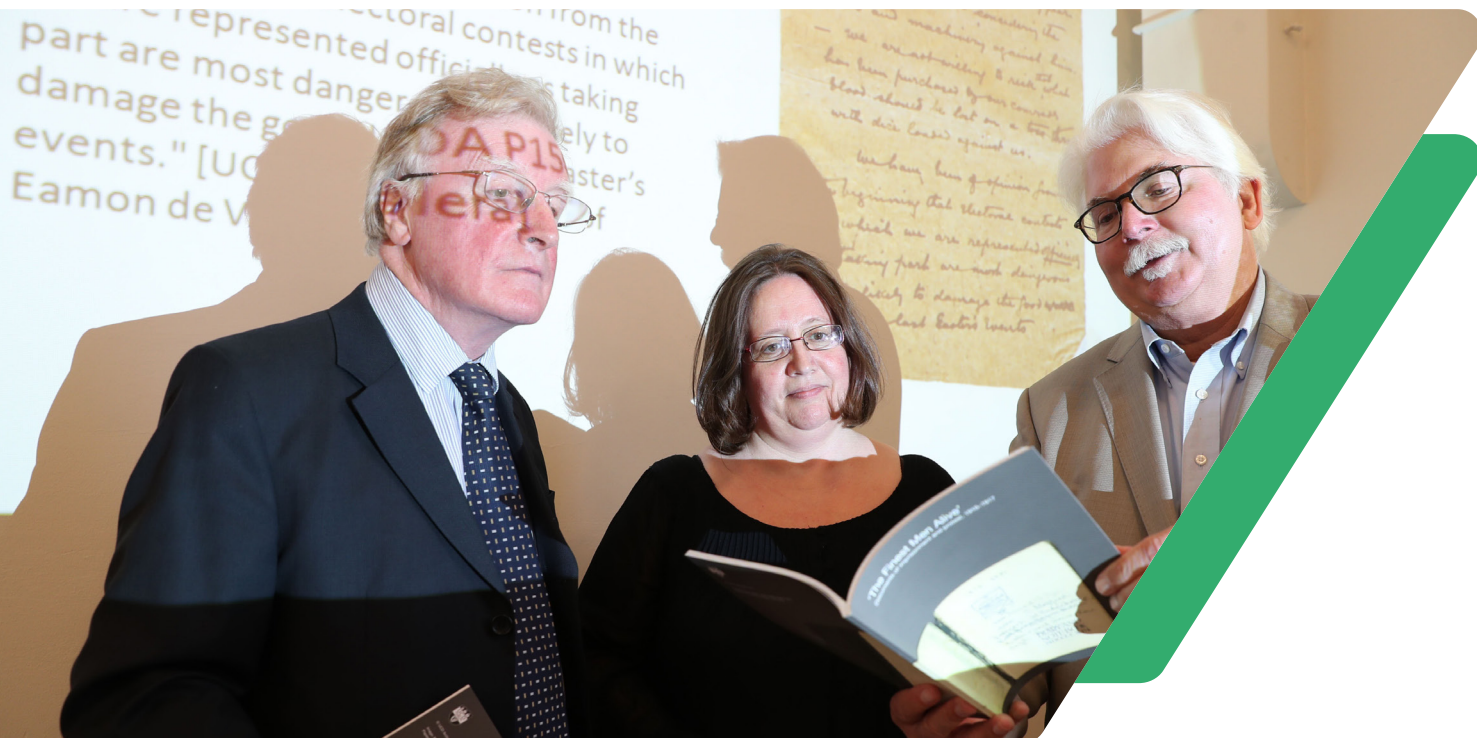
## Supporting Academic Enhancement

### Delivering and Measuring Quality

We maintain our commitment to continuous quality improvement and we are an active participant and contributor to national and international quality assurance/enhancement activities.

In 2016/17 quality reviews were completed for the following: National College of Art and Design (QA Procedures Approval); UCD/ Teagasc BAgrSc/Professional Diploma, Dairy Farm Management; UCD School of Physics; Kaplan (UCD Business Programmes), Hong Kong and Singapore; UCD School of Art History and Cultural Policy; National College of Art and Design (Linked Provider); UCD School of Classics; UCD School of Biosystems and Food Engineering; UCD Estates Services; and UCD Career Development Centre.

Below: 'The Finest Men Alive' – a new online exhibition outlining the experience of republican prisoners after the Easter Rising. Pictured at the launch are Prof Michael Laffan; Kate Manning, Principal Archivist, UCD Archives; and Dr John Howard, University Librarian.





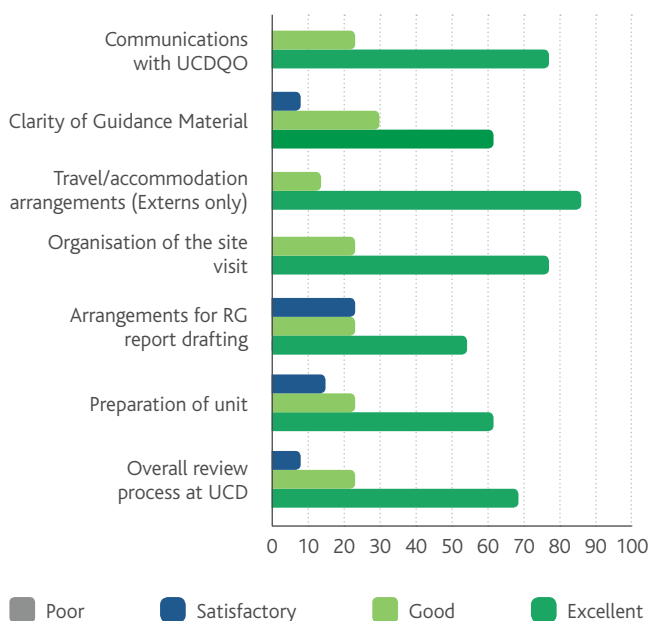
Clifden Arts Festival Committee placed its print and digital archive into the safe-keeping of UCD Library, where it will become part of the UCD Heritage Collection. Pictured at the event are (l-r) Carmel O'Sullivan, Associate Librarian; Prof Andrew Deeks, UCD President; and Brendan Flynn, Founder and Creative Director, Clifden Arts Festival.

Peer review plays an independent monitoring role enabling the ongoing enhancement of education and research activity, the student experience and the supporting infrastructure. In 2016/17, review group composition included members from the University of Oxford, Nanyang Technological University (Singapore), University of Glasgow, McGill University (Canada) and the University of California, Berkeley.

The chart below sets out responses on the key areas on which feedback was sought. Overall reviewer feedback was positive, with over 85% of all respondents indicating that all areas were either excellent or good.

External Cyclical Review is an element of the broader quality framework for Designated Awarding Bodies (universities, DIT, RCSI). This year QQI confirmed that an institutional review of UCD will take place in 2019. Institutional reviews are co-ordinated by QQI and underpinned by the relevant sections of the Qualifications and Quality Assurance Act 2012. QQI will appoint an external review team to conduct this review. Review teams are composed of peer reviewers who are students and senior institutional leaders from comparable institutions as well as external representatives, such as employers.

### Feedback from Reviewers for UCD Quality Reviews 2015–2016



### Delivering Library, Information and Knowledge Management Services

The UCD Library continued its support of University teaching and research and significant contribution to the preservation and visibility of Irish cultural heritage. It also extended its engagement with non-traditional students and the wider community, particularly on the themes of digital skills and digital cultural heritage.

This year the Library saw a 22% increase in participation in the Leaving Cert scheme, with over 500 Leaving Cert students from Dublin schools using library study facilities. Training sessions to support development of research and information skills and digital competencies, were taken up by 8,500 UCD students and employees. Client Services delivered 214 hours of training (3,878 undergraduates; 3,207 graduates; and 678 mixed groups) and 700 faculty/researchers attended 35 Library Research Services workshops.

## Education

Right: Olympian and UCD Alumnus Paul O'Donovan was named as the Dr Tony O'Neill Sportsperson of the Year.

Far right: The Ireland Women's Rugby Team with the President Michael D Higgins and Mrs Sabina Higgins at the opening match of the tournament at UCD.

We were delighted that our Library's association with the Clifden Arts Festival, which is linked with some of the finest names in the arts, including Seamus Heaney and Bill Whelan, led to the deposit of their 40-year archive with UCD. It also initiated a programme of academic involvement with the UCD School of English, Drama and Film.

### Highlights

- Over 1.8 million library visits, a 6% increase from the previous year, continuing a multi-year increase in demand for space and services.
- In collaboration with UCD IT Services, expansion of self-service laptop loan programme in both the James Joyce and Health Sciences libraries.
- Sponsorship of 121 Digital, a volunteer-delivered programme to support digital skills development among the elderly through one-to-one support.
- New publications from the UCD Digital Library, Ireland's oldest and most extensive repository of digital research and cultural heritage information, including *1916 and Me / 2016 and Us*, a video archive of 43 individuals' views on 1916; the *G & T Crampton Photograph Archive*, an extraordinary collection of 667 photographs from the albums of G & T Crampton; and *Hermes* (1907-1908), a literary journal for the staff and students of UCD.
- Hosting the Celebrating Poetry, Spoken Word and Music event, with Dr Paul Perry, UCD Fellow in Poetry, as part of the UCD Festival.
- Participation in National Heritage Week, organised by Professor John McCafferty, Academic Curator, Cultural Heritage Collection which included *Cultural Heritage Treasures of UCD*, a series of twenty-minute illustrated talks.
- Launch of the *UCD Library Cultural Heritage Collections Blog*, highlighting UCD's unique and distinct collections.
- The National Folklore Collection inaugural podcast series, *Blúiríní Béaloidis/Folklore Fragments*, hosted by Claire Doohan and Jonny Dillon, available on Soundcloud.
- A RTÉ three-part documentary, *John Connors: The Travellers* – a collaboration between the Travelling community, the filmmaker and the National Folklore Collection, which received critical acclaim.
- The new dúchas.ie website, including 500,000 digital texts and photographs documenting Irish life and culture, was launched by Joe McHugh TD, Minister of State for the Irish Language, the Gaeltacht and the Islands.
- Partnership with Bord na Gaeilge on *The Living Language*, a UCD SPARC-funded project delivering talks on music, drama, politics and sport in Irish.
- Transferal of 3,400 additional rare printed books dating from the 15th to 18th centuries to the Special Collections, as part of the UCD-OFM (Franciscan) agreement.
- Donation to the Special Collections of the *Maurice Harmon Library and Archives*, a valuable collection of books and private papers of UCD Emeritus Professor Maurice Harmon.



- Exhibitions including: *The Gemma Hussey Papers*, hosted by UCD Archives and the travelling exhibition *Ever Closer Union: The Legacy of the Treaties of Rome for Today's Europe*, mounted by the European University Institute, was launched in UCD Library and attended by ten European ambassadors to Ireland.

## Student Engagement and Life Skills

### Recruitment Fairs

To connect students with top national and international employers, the UCD Career Development Centre ran five recruitment fairs attended by 5,184 students and 211 employers. 3,106 vacancies were advertised online to students throughout the year and 108 employer recruitment events took place on campus. 61 students participated in an eight-week, employer-led Skills for Working Life programme.

This focus on forging meaningful connections between UCD and graduate employers has contributed to UCD being named number 1 in Ireland and number 75 in the world for employability in the QS rankings. To enable effective student engagement with the graduate job market, 2,764 one-to-one career coaching consultations were delivered. 99% of students reported feeling more confident after the consultation.

### Co-curricular Skills Awards

A new co-curricular awards scheme was launched earlier this year, to encourage early engagement with co-curricular activities by providing recognition of the skills, attributes and attitudes that are gained from participating in activities outside the classroom.

The awards which are structured around themes such as personal and professional development and cultural engagement, were developed by a cross-university working group in consultation with faculty, staff and students as well as key employers of UCD graduates. This major initiative will be managed through the UCD Career Development Centre.

### Access to Advice

Uniquely in the Irish third-level sector, UCD has a devolved student support structure, comprising twelve Student Advisers across the University. Each undergraduate programme has a highly visible



dedicated Student Adviser assigned to provide support, information and advice to all students, particularly the incoming first-year students. This year UCD has focused on developing and enhancing the Student Adviser role and promoting their services to staff and students using different communication channels, including a new twitter campaign during orientation.

### Highlights

- An innovative online instant messaging option has been introduced to the relaunched mobile-friendly Student Adviser webpage, allowing students to immediately connect with a Student Adviser. This was piloted last February and has been so successful it has been rolled out across the University.
- Student Advisers have been involved in the continuing disbursement of funds to students in financial need. 427 students received €500 funding from the Student Support Fund and a further 283 students facing unexpected personal circumstances and difficulties received funding from the UCD Student Welfare Fund.
- Student Advisers continue to lead the Peer Mentoring programme in which over 600 students were recruited and trained to undertake this role, giving up their last week of summer holidays to welcome over 4,500 incoming students.
- Dr Niamh Nestor, Student Adviser in the School of Veterinary Medicine, was honoured with a University Teaching and Learning Award in recognition of her outstanding and professional contribution to student learning, reflecting the growing importance and impact of the Student Adviser role within the University.

## The Wider University Experience

### Student Health and Well-being

The health and well-being of our students is paramount. UCD works in partnership with health and counselling services to support and help students in achieving academic productivity through a healthy and balanced lifestyle. This year the UCD Student Health Service increased the number of GP staff and introduced a new self-check-in point, significantly improving service efficiency for the student body.

The UCD Chaplaincy's vision for this year was to increase unity, connection and partnership between faith-based societies and denominations on campus. They facilitated and led a committee of students in pioneering Café Koinonia, a free coffee shop in the Student Centre, in tandem with *Come & See*, a series of talks held in the Astra Hall. In addition, they facilitated weekend retreats for student groups to enable them to seek silence, solitude and spiritual guidance in times of stress.

### Student Community

Societies are an exciting feature of life at UCD, with more than 100 societies covering everything from debating and creative writing to juggling and dancing. For the academic year 2016/17, UCD Societies recorded their largest ever total membership, with a combined membership of 54,000 students across all societies. The society with the largest membership is the Literary & Historical Society with almost 6,000 students, and 13 societies in total exceeding 1,000 members each. The total unique membership figure is just under 16,000 students.

UCD Societies welcomed many guests to the University this year including former US Chairman of the Joint Chiefs of Staff, General Martin Dempsey; former ECB President, Jean Claude Trichet; Senator David Norris; Sir Bob Geldof; Vice-President of the European Commission, Frans Timmermans; activist Peter Tatchell; actress Jane Lynch; comedian Oliver Callan; Chief Justice Susan Denham; Game of Thrones actor Kristian Nairn; and film-maker David Yates.

### Sporting Achievements

Sport is an integral part of student life at UCD, it plays a vital role in enabling students to reach their potential outside of the classroom.

- UCD saw over 450 students across 29 sports recognised at the 2016/17 UCD Athletic Sport Awards ceremony on 18 May in the UCD Student Centre. This gathering of sporting talent reflects the impressive volume of achievements attained by our students across all levels of sport both nationally and internationally.
- Olympic silver medallist and world champion Paul O'Donovan was named as the Dr Tony O'Neill Sportsman of the Year, in recognition of his sporting achievements and contribution to university and sporting life. The Ladies Hockey first team was named the Elite Team of the Year and Club of the Year, following their remarkable season securing the EYHL League, the EYHL

Champions Cup, the Irish Senior Cup, as well as the university championships and colours titles.

- Consistent with the UCD Strategy 2015-2020, to build our engagement locally, nationally and internationally, UCD Sport played host to the pool stages of the 2017 Women's Rugby World Cup from 9-17 August. Twelve teams, including Ireland, competed in the most important tournament in women's international rugby, with approximately 700 athletes, staff and volunteers moving onto the Belfield campus for the two-week period. A fan zone was set up bringing the campus to life during the tournament for the 5,500 fans who attended on each match day. Some 18 pool stage matches were played at UCD. The tournament also set new social media records with 45 million views across official tournament platforms, the best-performing World Rugby event of the year and the biggest since Rugby World Cup 2015.
- Thirteen UCD students were selected to represent Ireland at the World University Games in Taipei, Taiwan from the 19-30 August. The World University Games is second in size only to the Olympics with in excess of 13,000 competitors and officials participating. The UCD students selected on the Irish team included: Athletics, Mark English and Sarah Lavin; Men's Soccer, Conor Kearns, Jason McClelland, Daire O'Connor and Greg Sloggett; Women's Soccer, Dearbháile Beirne, Jetta Berrill, Chloe Mustaki, Oragh Nolan and Claire Walsh; Swimming, Darragh Greene and David Prendergast.
- A team of 12 international female students represented UCD in the Fexco GAA Asian Games in Shanghai, China in November 2016. The team trained vigorously under the stewardship of Brian Mullins in the build-up to the games and were rewarded by reaching the Cup final.

In collaboration with Irish and World Rugby organisations, UCD designed and built a virtual network on the UCD IT infrastructure to provide the required site-wide access for the Women's Rugby World Cup tournament. Due to the high level of bandwidth available, World Rugby broadcasters were able to reduce the time needed to deliver match footage to teams and broadcast partners by 75%. Just

under 5TB of data was transmitted over the two-week period (this compares to 50% of the total traffic transmitted at the Super Bowl 50 in 2016).

## Increasing Agility and Effectiveness

UCD Agile was created to support our strategic priority of ensuring that UCD's administrative, teaching and research processes and procedures are efficient and fit for purpose. This in turn supports the delivery of excellence, and builds capabilities to empower faculty and staff in creating a continuous improvement culture in UCD. It is about making UCD a better place to teach, research, learn and work.

The Lean methodology, adapted to the UCD environment, works as a catalyst for new approaches to problem solving, acts as a counterbalance to 'the process as an end in itself', and puts the focus on delivering value efficiently and effectively. In developing our continuous improvement capabilities, our focus this year has been on building exposure and experience through the training/project approach. From October 2016 to May 2017, three projects on Research Accounts, the Asset Register, and the academic programme governance process, were successfully implemented to deliver efficiency and 'customer' value. Project leads received Professional Certificates in Process Engineering which enable them to provide training. During this past year over two hundred staff have been trained at various levels, with many taking part in smaller scale, locally focused projects aligned with their training.

Other developments included a cycle of School-focused projects which took place over the first half of 2017 to place the success of Schools at the heart of process and procedure developments.

The role of Continuous Improvement Lead (CIL) was also introduced in eight major support units (Registry, Finance, Estates, HR, Library, Research, International and IT Services) as a way of integrating

Right: UCD Faculty and Staff Working Smarter Together – UCD Agile promotes creativity and collaboration across the UCD community.



continuous improvement with unit routine activities. The CIL's role is to ensure units have clear mechanisms for identifying projects, supporting staff on those projects and learning from them. UCD Agile promotes creativity and collaboration across the UCD community and in March 2017, over 400 colleagues from across the University gathered for the second 'Work Smarter Together' (WST) event. Faculty and staff came together to hear keynote speakers and take part in workshops, all of which provided opportunities to share, learn and be inspired in how we continue to enhance our UCD experience. WST was an opportunity to publicly recognise achievements and commitment and provide inspiration for future creativity.

Following the success of WST 2017, UCD launched the WST Communities of Practice (CoPs) in May 2017, an initiative aimed at making Work Smarter Together more than just a one-day event. The purpose of a community of practice in UCD is to build and share knowledge, build and share skills, build networks and build recognition, providing ways of helping colleagues connect and support one another. 140 employees registered for the launch event and 90 attended a summer school in July. A newsletter to keep focus on the ongoing creative and collaborative activity across the University was also launched.

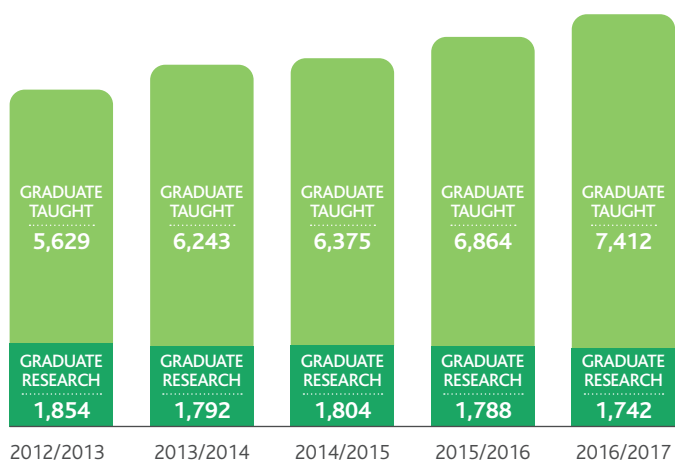
## Educating and Developing Graduate Research Students

In 2016/17 Graduate Taught enrolments grew by nearly 7%, continuing the annual trend. Over 28% of all taught masters enrolments in Ireland study at UCD, indicating that UCD is the university of choice for masters programmes. Overall this accounts for over 30% of total enrolments in UCD.

### Highlights

- Central to UCD's mission and vision is the enhancement of a supportive and inclusive community of students. To introduce new graduate students to UCD, Graduate Studies hosted the *GradsConnect* event, showcasing the comprehensive social, academic and administrative supports and facilities on offer in UCD. Following the success of previous events and increasing numbers, in September 2016 *GradsConnect* welcomed in excess of 500 incoming taught and research graduate students.
- We continue to develop the support we provide to research supervisors. This year, in addition to the Research Supervisor Support and Development Programme, which is open to all supervisors, a new lunchtime seminar series on research supervision was introduced. This development was in response to requests from faculty for seminars focussed on specific aspects of doctoral supervision, including doctoral studies panels, research and professional development plan, and stage transfer assessments.
- To further align UCD with the National Framework on Doctoral Education and the IUA Skills Statement, a new section of the Graduate Studies website was developed, highlighting the training opportunities in discipline-specific and transferable skills modules for research students. 2016/17 saw a significant increase in research students engaging in transferable skills training. This year there were

## UCD Graduate Numbers



almost 400 enrolments on training workshops provided by Graduate Studies, the UCD Career Development Centre and the Library.

- High Performance Computing (HPC) is a skillset used by an increasing variety of research areas. The UCD School of Mathematics and Statistics, the Irish Centre for High End Computing and UCD IT Services came together in 2017 to facilitate HPC training, offering courses to all researchers, and ECTS credits through the Scientific Programming Concepts course.

### Promoting Quality

We are continually working toward an integrated quality assurance culture where student, supervisor and support staff are fully informed of, and engage with, quality enhancement procedures. In line with this, a project to manage administration of research students was developed leading to the launch of the Research Management System (RMS) for Semester 1 2016/17. The enhancements include:

- Online processing of admission and approval of all research students.
- Timely progression of PhD students from Stage 1 to Stage 2 of their programme. (The RMS supports Schools in identifying students who have reached the appropriate time to undertake the Stage Transfer Assessment (STA) and the real-time processing of STA results).
- Support for the student:supervisor relationship. The RMS has the facility for uploading the minutes of meetings to a Student-Supervisor Infohub interface thereby generating a repository of all interactions.

### Building Reputation

UCD is recognised as a leader in doctoral supervision and education and secured funding from U21 and Erasmus Mundus, to deliver a series of Supervisor Support and Development Workshops to faculty in the University of New South Wales in September 2016. To further grow the reputation of UCD, in March 2017 we hosted the annual Universitas 21 Deans and Directors of Graduate Schools meeting. This included a workshop focussing on the 'Future of the Doctorate', led by Professor Bob Harris from the Karolinska Institute in Stockholm.

In addition, we were delighted to have been represented on the Executive Committee of ORPHEUS (Organisation for PhD Training in the European System) at their 2016 annual meeting in Lithuania, and invited to the United States of America's Council of Graduate Schools annual meeting in Washington DC, to present on developments in doctoral education in Ireland.

# Research, Innovation & Impact

## Introduction from Vice-President for Research, Innovation and Impact

The past year has seen continuing strong performance by UCD in research, innovation and impact, with successes in major funded programmes as well as in individual scholarship.

UCD leads two of the four national research centres announced by Science Foundation Ireland (SFI) this year: the BEACON Bioeconomy Research Centre and the I-FORM Advanced Manufacturing Research Centre. Another major research programme launched this year is CONSUS, a partnership between UCD and Origin Enterprises in precision agriculture and crop science, also part-funded by SFI. All of these major initiatives involve researchers from across UCD, highlighting our ability to deliver excellence in interdisciplinary research. Congratulations to Professor Kevin O'Connor, UCD School of Biomolecular and Biomedical Science, Professor Denis Dowling, UCD School of Mechanical and Materials Engineering, and Professor Gregory O'Hare, UCD School of Computer Science and Professor Shane Ward, UCD School of Biosystems and Food Engineering, who lead these programmes, as well as the numerous faculty involved.

Through successes such as these, the value of research grants registered grew to €97.5 million this year. This is a strong figure, particularly given that it does not yet include the two new research centres, which will be registered in the next financial year.

A number of UCD research leaders received recognition this year. Professor Ken Wolfe was elected to Fellowship of the Royal Society, one of the leading achievements in world science, for his outstanding work on genomic evolution. UCD Emeritus Professor Dervilla Donnelly became the first woman to receive the Cunningham Medal, the highest honour of the Royal Irish Academy (RIA).

Other major awards included the Takeda Distinguished Research Award of the American Physiological Society, presented to Professor Cormac Taylor, the Governor General's International Award in Canadian Studies, presented to Professor Maeve Conrick, and the William Smith Medal of the Geological Society of London, presented to Professor John Walsh.



UCD faculty and staff also lead in the organisation of research and scholarship nationally and internationally. Professor Imelda Maher was this year elected President of the Society of Legal Scholars, Professor Tom Brazil was elected President of the IEEE Microwave Theory and Techniques Society and Professor Peter Kennedy was elected President of the RIA.

Reflecting the very high calibre of the research support staff in UCD, Sharon Bailey, Director of Research Finance and Operations was elected Chair of the European Association of Research Managers and Administrators.

Innovation awards this year included the 2017 Knowledge Transfer Ireland Initiative of the Year Award in recognition of the establishment and launch of €60 million University Bridge Fund. The year also saw the internal launch of ConsultUCD, the University's managed consultancy service.

Finally, a personal highlight of the past year was leading UCD's successful application for the Athena SWAN Bronze Award, which recognises the actions being taken by the University in pursuit of gender equality.

A handwritten signature in black ink, appearing to be 'Orla Feely'.

**Professor Orla Feely**  
UCD Vice-President for Research, Innovation and Impact

**Research Publications:** details of all research publications for the period of the Report are available online at [www.ucd.ie/research/publications](http://www.ucd.ie/research/publications).



## Research Funding

Externally funded research contracts registered during the year amounted to €97.5 million (see Table 1). Table 2 shows the largest research grants awarded this year. The value of externally funded research awards increased this year by 4%.

This year saw an increase of €1.8 million (11.7%) in EU-funded awards. This increase is encouraging, particularly as this is such a critical funding source, given the static nature of national funding in recent times.

Table 1: Research Awards

	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
Total value contracts signed including contributions to overheads (€ million)	116.8	49.5	103.3	75.7	113.3	114.1	106.3	93.7	97.5
Total contributions to overheads (€ million)	21.0	6.7	17.0	9.5	17.4	16.5	17.2	13.2	12.3
Total number of contracts awarded	537	449	510	532	614	672	627	652	661
Number of proposals submitted	1,150	1,069	1,123	1,263	1,167	1,245	1,603	1,372	1,336

Funding source 2016/17	Number of contracts	Value (€ million)
Science Foundation Ireland (SFI)	73	34.8
European Commission (EC)	45	17.1
Irish Research Council (IRC)	114	9.3
Enterprise Ireland (EI)	92	4.3
Department of Agriculture, Food and the Marine	19	8.1
Others	318	23.9
<b>Total</b>	<b>661</b>	<b>97.5</b>

Right: Pictured are TEDxUCD 2016 speakers, Associate Professor Patricia Maguire, UCD School of Biomolecular and Biomedical Science and UCD Conway Institute with Dr Sandra Collins, Director of the National Library of Ireland.





Left to right: Professor Kevin O'Connor, UCD School of Biomolecular and Biomedical Science and UCD Earth Institute, recipient of the NovaUCD 2016 Innovation Award; Pictured at NovaUCD are Oisín McElhinney and Jack Parsons, O'Kale Krisps, overall winner of the 2017 UCD Start-Up Stars Programme; Pictured (l-r) at NovaUCD are; Dawn Walsh, Kernel Capital; Des O'Leary, CEO, OncoMark; Professor William Gallagher, Director, UCD Conway Institute and co-founder, OncoMark; Deirdre Glenn, Manager, Lifesciences Sector, Enterprise Ireland and Kevin Healy, Senior Manager, Corporate Banking Ireland, Bank of Ireland.

**Table 2: Largest Grants Awarded to UCD 2016/17**

Leader	Funding source	Programme	Title	Total €M
Professor Gregory O'Hare	Science Foundation Ireland	Strategic Partnership Programme	Core Optimisation through Sensing, Understanding and Visualisation (CONSUS)	9.3
Professor Win Meijer	European Commission	INTERREG VA – Ireland Wales	ACCLIMATIZE	3.1
Professor Ulla Knaus	Science Foundation Ireland	Investigator Programme	Impact of ROS on Intestinal Health in Inflammatory Bowel Disease	2.6
Professor Orla Feely	Science Foundation Ireland	Research Centres – Full Proposal	Supplementary Award	2.4
Professor Roland Erne	European Commission	ES – ERC Consolidator Grant	Labour Politics and the EU's New Economic Governance Regime (European Unions)	2
Professor John Cotter	Science Foundation Ireland	Strategic Partnership Programme	Valuation and Risk (VAR) Partnership Programme	1.9
Professor Fionnuala McAuliffe	Science Foundation Ireland	Research Centres – Full Proposal	SFI Microbe Mom	1.7
Professor Kenneth A Dawson	European Commission	INTERREG VA – Ireland Wales	Celtic Advanced Life Science Innovation Network (CALIN)	1.7
Professor Walter Kolch & Dr Christina Kiel	Science Foundation Ireland	Future Research Leaders	Quantitative and Systems Analysis of (Patho) Physiological Signalling Networks	1.6
Assoc Professor Dermot Brougham	Science Foundation Ireland	Investigator Programme	NANO – MAG – FACTORY: Multi-functional Magnetic Nanocomposite Materials for Biomedicine	1.6
Assoc Professor Dieter Kolger	European Commission	ES – ERC Starting Grant	Technology Evolution in Regional Economies (TechEvo)	1.5
Assoc Professor Tasman Crowe	European Commission	INTERREG VA – Ireland Wales	ECOSTRUCTURE: Climate Change Adaptation through Ecologically Sensitive Coastal Infrastructure	1.5
Professor Dympna Devine	Irish Foundations	Research Project	Safe Learning Model in Sierra Leone	1.4
Professor Eoin Casey	Science Foundation Ireland	Research Infrastructure	Cryogenic Extreme-Resolution Scanning Electron Microscope	1.2
Dr Angela Feechan	Science Foundation Ireland	Research Infrastructure	PICS: Physiology Infrastructure for Crop Stress	1.2
Dr David Coyle	European Commission	ES – Marie Skłodowska-Curie Innovative Training Network (ITN)	Technology Enabled Adolescent Mental Health (TEAM)	1.2
Professor Anding Zhu	Science Foundation Ireland	Investigator Programme	5GMMPA: Digitally Linearized High Efficiency Millimetre Wave Power Amplifiers for Next Generation High Speed Wireless Communications	1.1



## UCD Seed Funding

The University's Seed Funding Scheme continues to make a vital contribution to the development of research by supporting researchers' ideas aligned to the University's objectives. During the past year 363 applications were received across the six programmes. 141 awards (39%) shared funding of €0.5 million. In addition, a special seed funding initiative this year provided funding of €98,187 to 12 projects relating to the Decade of Centenaries.

## UCD Output Based Research Support Scheme (OBRSS)

Research activity is critical to UCD's reputation as a leading global university. We recognise that commitment to excellent research builds UCD's reputation and that many of the day-to-day costs of research activity are not covered by research grants. In response, UCD has developed the Output-Based Research Support Scheme (OBRSS) to disburse research support funds to faculty based on their research outputs, as captured through publications and PhD supervision.

**Table 3: UCD Seed Funding Scheme**

2017 Seed Funding by Programme	Volume of Applications	Value of Applications €	Volume of Awards	Value of Awards €
Career Development Award	54	608,572	12	127,270
Dissemination and Outputs	202	361,784	105	151,226
Equality, Diversity and Inclusion Strand A	5	48,252	1	7,856
Equality, Diversity and Inclusion Strand B	6	16,144	1	2,828
Horizon Scanning	68	849,887	13	157,575
Visiting Professors – Incoming and Outgoing	13	126,353	6	40,852
Proposal Preparation/Proof of Concept	15	61,554	3	11,784
<b>Total</b>	<b>363</b>	<b>2,072,546</b>	<b>141</b>	<b>499,391</b>

2017 Seed Funding by College	Volume of Applications	Value of Applications €	Volume of Awards	Value of Awards €
UCD College of Arts and Humanities	22	114,053	6	14,421
UCD College of Business	10	106,140	2	1,500
UCD College of Engineering and Architecture	49	218,508	19	54,500
UCD College of Health and Agricultural Sciences	106	727,328	35	178,190
UCD College of Science	112	535,053	50	122,798
UCD College of Social Sciences and Law	62	351,856	29	127,982
Research Institutes and other entities	2	19,609	–	–
<b>Total</b>	<b>363</b>	<b>2,072,546</b>	<b>141</b>	<b>499,391</b>

During the past year, 724 faculty were awarded support funds through OBRSS. Full details of the OBRSS are shown in Table 4 below.

## Publication Metrics

In 2016, there were 3,298 papers listed in Elsevier SciVal for UCD (see Table 5). Although the coverage in this data does not reflect the totality of UCD's publications (which was 4,744 for the year), this is an important metric. On aggregate, UCD has produced the highest volume of academic publications in the country over the past ten years.

## Field-Weighted Citation Impact

Field-weighted citation impact compares the actual number of citations received by an article with the expected number of citations for articles of the same document type (article, review or conference proceeding paper), publication year and subject field.

A field-weighted citation impact of 1.00 indicates that an institution's publications have been cited exactly as would be expected based on the global average for similar publications. Using this measure, UCD's publications are 69% more cited than the world average, putting UCD on a similar plane with many other leading international research-intensive universities.

During the past five years, 20% of UCD's publications were in the top 10% of the most cited worldwide. In addition, more than half of the publications were co-authored with institutions in other countries, emphasising UCD's position as a global university.

**Table 4: Output Based Research Support Scheme**

College	Volume of Awards	Value of Awards €
UCD College of Arts and Humanities	85	49,569
UCD College of Business	39	21,805
UCD College of Engineering and Architecture	79	91,779
UCD College of Health and Agricultural Sciences	207	215,261
UCD College of Science	163	159,258
UCD College of Social Sciences and Law	147	107,756
Research Institutes and other entities	4	4,638
<b>Total</b>	<b>724</b>	<b>650,066</b>

## UCD Strategic Research Priority Areas – Key Highlights

In UCD we seek to deliver excellent research in areas in which the University and country can lead globally, working closely with a range of strategic partners.

In order to do this we have identified six priority themes:

1. **Agri-Food**
2. **Culture, Economy and Society**
3. **Energy**
4. **Environment**
5. **Health**
6. **ICT**

### 1. Agri-Food

The agri-food sector is at the forefront of our response to some of the most pressing global challenges and is Ireland's largest indigenous industry. UCD is working with the sector to ensure sustainability and global competitiveness, and to develop safe, novel foods and promote human health. Through our expertise in animal science and veterinary medicine, we promote efficient, sustainable, healthy and welfare-friendly livestock production. Our graduates are leaders in the agri-food sector nationally and internationally.

### Agri-Food Highlights

CONSUS is a collaborative research partnership between UCD and Origin Enterprises plc that has been supported through the Science Foundation Ireland (SFI) Strategic Partnership Programme. The €17.6 million, five-year project will investigate digital, precision agriculture and crop science through a strong multi and inter-disciplinary approach that combines the leading expertise of UCD in data science and agricultural science with Origin's integrated crop management research, systems, capabilities and extensive on-farm knowledge exchange networks. The partnership aims to create a scalable, dynamic and integrated crop model that optimises sustainable crop performance through enabling enhanced predictive intelligence capabilities at field level.

**Table 5: Publication Metrics and Field-Weighted Citation Impact**

Publication Year	Number of Publications in SciVal	Publication Year (5-years)	Field-Weighted Citation Impact (5-years)
2012	2,928	2008-12	1.65
2013	3,022	2009-13	1.65
2014	3,011	2010-14	1.67
2015	3,066	2011-15	1.69
2016	3,298	2012-16	1.69

Source: Elsevier Scopus/SciVal (accessed September 25, 2017)



Pictured are members of a visiting delegation from Guangdong Province, China with Professor Suzi Jarvis, Founding Director, UCD Innovation Academy.

UCD continues to be a thought leader in this sector, engaging industry, academics and policy-makers on the future of agriculture and food. Events hosted this year by the Institute of Food and Health and the UCD School of Agriculture and Food Science included: Connecting the Consumer and Sensory Science foods and Big Data in Agriculture and Food.

Professor Lorraine Brennan, UCD School of Agriculture and Food Science, has been appointed to the European Commission Expert Group on FOOD 2030. She will assist the EC with the further development of FOOD 2030, with a view to exploring and formulating possible future research and innovation policy recommendations and actions, and assessing their potential impacts.

Dr Clodagh Kearney and Dr Conor McAloon, UCD School of Veterinary Medicine, were awarded funding under the UCD Wellcome Trust ISSF Clinical Primer Scheme. This scheme incentivises and supports the early careers of medical and veterinary clinicians, practitioners, and individuals within the allied health services. The scheme is aimed at unlocking a new clinical talent pool which will be essential for underpinning the University's future success in the priority area of One Health.

UCD has invested in additional pasture land at Lyons Farm and is committed to the creation of a long-term experimental pasture platform that will integrate a wide range of research interests and will address the greatest challenges facing grass-based agriculture. This long-term pasture research platform will be the first in Ireland and will complement similar international facilities examining other facets of ecology and agriculture. This facility is necessary to inform future practice and policy for Ireland's unique and resilient agriculture landscape.

## 2. Culture, Economy and Society

UCD is renowned for our contributions in Arts, Humanities, Business, Social Sciences and Law. UCD researchers continue to lead in the scholarship of Ireland and its global environment: interpreting the past, critically interrogating the present and imagining the future. They inform public policy and public debate, and deliver and support landmark cultural contributions. Through its provision of critical expertise and of talented graduates, and working with our strong network, UCD supports a strong and sustainable economy and helps make Ireland a more attractive place to live.

### Culture, Economy and Society Highlights

Professor Roland Erne, UCD School of Business was awarded an ERC Consolidator Grant for his European Union project on Labour Politics and the EU's New Economic Governance Regime. Professor John Cotter, UCD School of Business was awarded a Science Foundation Ireland Strategic Partnership, Valuation & Risk (VAR). A Horizon 2020 Outstanding Achievement Award was also awarded to Professor Suzanne Kingston, UCD Sutherland School of Law in the ERC Starting Grant category.

Edited by three members of the UCD Geary Institute, Professor William Roche and Professor Andy Prothero, UCD School of Business, and Professor Philip O'Connell, Director, UCD Geary Institute, *Austerity and Recovery in Ireland: Europe's Poster Child and the Great Recession* was published by Oxford University Press. The book was launched with a series of symposia at UCD, New York University and the European University Institute, Florence.

Professor Liam Delaney, UCD School of Economics was appointed AIB Professor of Behavioural Economics and a new programme on behavioural science and public policy was launched at UCD Geary Institute for Public Policy.

An engaging public lecture series on Plotting the Future was led by the UCD Humanities Institute, the UCD Institute for Discovery and the UCD Geary Institute for Public Policy.

Major awards in the UCD School of Business included an Irish Research Council CAROLINE Fellowship, led by Professor Maeve Houlihan on Financing the Sustainable Development Goals; and H2020 funding to Dr Seán McGarraghy as part of the VALUMICS project on understanding food value chains and network dynamics.

The UCD College of Social Sciences and Law has been recognised for its societal contributions through research. The Chevalier (Knight) of the Ordre des Palmes Académiques, nominated by French Minister of National Education and Research, was awarded to Dr Marie-Luce Paris, UCD Sutherland School of Law for her work promoting legal education and research in Ireland and France.

The Ireland Canada University Foundation Flaherty Visiting Professorship 2017-18 was awarded to Professor Judith Harford, UCD School of Education. Professor John McCafferty, the Academic Curator of UCD's Cultural Heritage Collection has been appointed as the Chair of the Irish Manuscripts Commission (IMC). Newly appointed members of the IMC Board also include Dr Elva Johnston, UCD School of History and Kate Manning, Principal Archivist, UCD.

The inaugural UCD Research Impact Case Study Competition was won by Professor Michelle Norris, UCD School of Social Policy, Social Work and Social Justice for her impact case study entitled Funding Social Housing for Low-Income Households after Ireland's Economic Crisis.

Below left: Professor Michelle Norris, Head, UCD School of Social Policy, Social Work and Social Justice, was declared overall winner of UCD's inaugural research impact case study competition. This is a new initiative established by UCD Research and Innovation to build capacity throughout the University in the area of capturing and articulating research impact.

During the year UCD Press launched a diverse range of new titles and held many successful launch events. Launch events for *Ireland's Allies: America and the 1916 Easter Rising*, a collaboration with NYU's Glucksman House were held in Dublin and New York, and the book is now on its third reprint. The biography *Michael Davitt after the Land League* which was twenty years in the making, was extensively reviewed and won the NUI Historical Research Prize.

### 3. Energy

At UCD we are working to find solutions to the energy challenges of the 21st century. Our research expertise covers the traditional energy sources of oil and gas, as well as the integration of renewable energy and the interface between energy and ICT in areas such as Smart Grids and Smart Cities. We analyse the economics and the behavioural science around energy choices, we seek to enable the policy framework to promote efficient and sustainable energy use, and we drive the emergence of new energy enterprises. We partner extensively with energy companies in our research, and many leaders of the sector nationally and internationally are UCD graduates.

#### Energy Highlights

The UCD Energy Institute is building on the success of its Energy Systems Integration Partnership Programme (ESIPP) to expand its programmes in the EU. It is now a key participant in a series of EU-funded programmes, including RealValue (smart energy storage), NewTREND (energy efficiency retrofit), MIGRATE (power electronic devices) and Sim4Blocks (simulation supported energy management). The latest addition, under the direction of Associate Professor Andrew Keane, is participation in the RE-SERVE project with UCD accounting for €575,000 of the €5 million pan-European project. This focuses on the maintenance of grid stability with increased inputs from renewable sources.

Below right: Pictured at UCD is Richard Bruton TD, Minister for Education and Skills with students participating on the UCD Innovation Academy's Creativity, Innovation and Entrepreneurship summer programme.



In the national system managed by SFI, Associate Professor Damian Flynn, UCD School of Electrical and Electronic Engineering has received an €800,000 SFI Investigator award on energy storage and demand-side flexibility within future electricity markets, working with the University of Ulster. This follows Professor Federico Milano's €1.7 million SFI Investigator award on Advanced Modelling for Power System Analysis and Simulation. Professor Milano, UCD School of Electrical and Electronic Engineering, also became an Institute of Electrical and Electronics Engineers (IEEE) Fellow arising from his contributions to power systems modelling and simulation.

The UCD Energy Institute continues to expand its academic capability into new areas and the appointment of two new academic posts in Energy Economics and Intelligent Energy Systems was made possible through the partnership between the UCD Energy Institute, the UCD School of Economics and the UCD School of Electronic and Electrical Engineering.

### Manufacturing

Advanced manufacturing is an area in which UCD is building its research capabilities and activities. Manufacturing competitiveness has been identified by the National Research Prioritisation Steering Group as a key area of focus, and the UCD College of Engineering and Architecture is aligning its strategy to address challenges in this field.

UCD led and co-ordinated the successful application for the SFI Research Centre I-FORM Advanced Manufacturing, funded with €18 million from Science Foundation Ireland and with twenty-five industry partners. This new centre is led by Professor Denis Dowling, UCD School of Mechanical and Materials Engineering. The academic consortium includes DCU, Trinity, NUIG, IT Sligo and Waterford IT. The Centre focuses on additive manufacturing (3D printing) combined with advanced digital technologies.

Advanced manufacturing research at UCD is also gaining significant international profile with the work of Professor Fengzhou Fang, UCD School of Mechanical and Materials Engineering. A world-renowned expert in micro/nano manufacturing research and innovation, Professor Fang is ramping up his cutting edge research programme with an investment of €5 million under the SFI Research Professorship Programme.

## 4. Environment

Many of the most significant global challenges relate to our ability to sustain our environment and to use natural resources wisely. UCD researchers deliver practical solutions in the areas of sustainable living, natural resources, climate change, natural hazards and the built environment. Their expertise spans a broad range of disciplines, including the biological and physical sciences as well as economics, behaviour and regulation, and they address the challenges facing Ireland's unique environment along with the major global questions.

### Environment Highlights

BEACON is a major new research centre that was established with substantial funding from Science Foundation Ireland and industry partners. It is led by Professor Kevin O'Connor, UCD Earth Institute and UCD School of Biomedical and Biomolecular Science. Its aim is to develop alternative technologies based on renewable biological

resources to replace many of the items and materials we consume which are based on finite and diminishing fossil resources.

iSCAPE is a major new Horizon 2020 project that focuses on the control of air quality and carbon emissions in European cities, is being co-ordinated by Dr Francesco Pilla, UCD School of Architecture, Planning and Environmental Policy.

UCD environment researchers have enjoyed considerable success in the Interreg Ireland-Wales programme this year, with three major projects funded with UCD participants, two of which are co-ordinated by UCD researchers.

The UCD Centre for Spatial Dynamics was established by Dr Dieter Kogler and Dr Francesco Pilla, both members of the UCD School of Architecture, Planning and Environmental Policy. Dr Dieter Kogler was the recipient of an ERC Starter Grant this year.

iCRAG, the Irish Centre for Research in Applied Geosciences, funded by Science Foundation Ireland, the European Regional Development Fund and industry partners, has seen significant growth of its research programme and the successful completion of its two-year centre review. In April iCRAG held its inaugural research showcase in the Aviva Stadium, which attracted over 200 attendees from industry, state policy partners, geoscience, engineering and research. iCRAG continues to build on strong collaborations with the Centre's industry partners and has extended its technical remit into geohazards and geotechnical engineering.

Professor Emma Teeling, UCD School of Biology and Environmental Science and the UCD Earth Institute was invested as a Chevalier des Palmes Academiques by the French state, this is the highest honour bestowed upon scientists in their respective country.

## 5. Health

At UCD, we are looking to the future of healthcare, one where new therapies, technologies and devices emerge from the symbiosis of technology and biology. Our precision medicine approach offers great promise in better targeting therapy and reducing side effects across a range of specialties, including cancer, metabolic and cardiovascular disease and dermatology.

OneHealth, a priority area for UCD focuses on infectious and rare diseases and considers animal as well as human health. Access to the largest academic hospital network in the country, the Ireland East Hospital Group (IEHG), serving a patient population of over 1.1 million, provides unique opportunities for translation and implementation. We are also leaders in health promotion, informing policy and practice, and our connected health programme works with clinicians, industry and patients to change the way healthcare is delivered.

### Health Highlights

Professor Kenneth Wolfe, UCD School of Medicine and UCD Conway Institute, was elected a Fellow of the Royal Society (UK) for his outstanding contribution to science in 2017. There are only five other Fellows of the Royal Society in Ireland. Professor Wolfe is the first scientist to be elected from UCD since Edward Conway in 1947. Professor Walter Kolch, UCD School of Medicine and Director of Systems

Biology Ireland (SBI) and Professor Boris Kholodenko, UCD Conway Institute and Deputy Director of SBI, are leading the development of precision medicine internationally. Their expertise is attracting significant academic and industry partnerships.

UCD secured a Wellcome Trust Institutional Strategic Support Fund (ISSF) supported under the SFI-HRB-Wellcome Trust Biomedical Research Partnership, with matched funding from UCD. The objective of the fund is to drive key research initiatives within the University's health research themes of personalised and translational medicine and One Health.

Significant Health Research Board (HRB) awards were made to Professor Alistair Nichols, UCD School of Medicine, whose work on blood transfusion was recently published in the New England Journal of Medicine. Within the UCD School of Nursing, Midwifery and Health Systems, Professor Thilo Kroll was awarded the HRB PPI Ignite Award to embed Patient and Public Involvement in UCD's institutional structures and procedures, and Dr Attracta Lafferty was awarded a HRB Emerging Investigator Award.

Professor Dermot Brougham, UCD School of Chemistry and Professor Ulla Kanus, UCD School of Medicine were awarded SFI Investigator Awards for their respective projects on multi-functional nano-materials for biomedicine, and inflammatory bowel disease. Professor Fionnuala McAuliffe, UCD School of Medicine, received an SFI spokes award to examine whether a healthy microbiome can be promoted in a mother and passed on to her baby. Professor Carel le Roux, UCD Diabetes Complications Research Centre, UCD School of Medicine and UCD Conway Institute is the corresponding author on a publication in The Lancet, relating to reducing diabetes risk.

Pictured at the internal launch of ConsultUCD are: Professor Orla Feely, UCD Vice-President for Research, Innovation and Impact, guest speaker, Dr Hugh Hunt, University of Cambridge and Elizabeth Nolan, Head of ConsultUCD.

Within the theme of Public Health and Health Promotion, Dr Catherine Phillips and Professor Cecily Kelleher, UCD School of Public Health, Physiotherapy and Sports Science, won a Healthy Diet for a Healthy Life European Joint Programming Initiative focused on early life programming of childhood health.

Dr Mirjam Heinen and Professor Cecily Kelleher, UCD School of Public Health, Physiotherapy and Sports Science, led the Healthy Ireland Childhood Obesity Surveillance Initiative (COSI) report undertaken by the National Nutrition Surveillance Centre as part of a WHO programme, findings from which will inform work within the HSE to reduce the number of children who are overweight or obese in Ireland.

Professor Brian Caulfield's Connected Health theme won a Marie Skłodowska-Curie ITN entitled on Technology Enabled Adolescent Mental Health (TEAM) and an EI commercialisation award 'runAID' which is a collaboration with Professor Barry Smyth, UCD School of Computer Science and Informatics to develop an artificial intelligence based mobile application for personalised adaptive coaching.

## 6. ICT

ICT research at UCD advances knowledge and delivers highly trained researchers in fields such as Data Analytics, Artificial Intelligence, the Internet of Things, Smart Systems, Privacy and Security. It also connects these fields with others, addressing applications such as Smart Agriculture, Connected Health, Industry 4.0 and Digital Humanities. UCD has some of the most highly cited researchers worldwide in machine learning and in a number of domains of artificial intelligence.





## ICT Highlights

UCD maintains a leading role in Ireland's national data analytics research centres including the Insight Centre for Data Analytics, CeADAR, and the UCD Centre for Business Analytics. During the year, the Insight Centre for Data Analytics received 10 separate research awards for its research at home and abroad, including prizes from leading international conferences.

UCD and IBM Research Ireland hosted a joint colloquium at the University entitled 'The Cognitive IoT Disruption'. Cognitive IoT brings together two of the most disruptive ideas that are currently transforming a host of industries; the Internet-of-Things (IoT) and Cognitive Systems. Large-scale systems that can sense, parse, reason and debate with operators open new possibilities for innovation and promise a range of efficiencies in almost every domain. IBM Research is at the forefront of these technologies and UCD is partnering with them to develop some of these technologies.

Associate Professor Eleni Mangina, UCD School of Computer Science, is co-ordinating a pilot project funded by the European Commission (DG Connect) called AHA - AdHd Augmented. The project will deliver an augmented reality solution for an existing online literacy programme for primary school students with Attention Deficit Hyperactivity Disorder.

Professor Barry Smyth, UCD School of Computer Science, won the ACM Intelligent User Interfaces inaugural Most Influential Paper Award. The paper 'Trust in Recommender Systems', has been one of the conference's most highly influential and cited papers in the last 23 years.

Professor Anding Zhu, UCD School of Electrical and Electronic Engineering was awarded an SFI Investigator Award for his project on high-speed wireless communications.

Siobhan Grayson won the student of the year at the 2017 Irish Data Science Awards. Others honoured at these awards include: Associate Professor Andrew Parnell, UCD School of Mathematics and Statistics; Associate Professor Neil Hurley, UCD School of Computer Science; Professor Pádraig Cunningham, UCD School of Computer Science; and Martin O'Reilly, UCD School of Public Health, Physiotherapy and Sports Science.

## Innovation

UCD is committed to its key role in Ireland's innovation and knowledge exchange ecosystem as an enabler of economic growth and as a contributor to economic, cultural and social development. We support this objective through our innovative and entrepreneurial students and graduates, the development of partnerships with businesses, Government agencies and social and cultural enterprises, the commercialisation of research outputs, the generation of new ventures and the creation of jobs.

One of our key objectives in this regard is to continue to improve our capacity to develop competitive spin-out companies, through initiatives such as the €60 million University Bridge Fund. This Fund, initiated in a joint leadership collaboration by UCD and Trinity College, is Ireland's first ever investment fund to invest exclusively in research outputs generated by both universities and all Irish third-level institutions and universities.

UCD is also fully committed to engaging in an increasingly broad range of activities that will allow stakeholders, such as industry, public sector and not-for-profit organisations, to benefit from the wealth of technology, research, innovation and expertise that the University generates.

## New Consultancy Service

During the year, as part of the implementation of this broader agenda, the University established and launched ConsultUCD, a new managed consultancy service. ConsultUCD is designed to deliver economic and societal benefit in Ireland and internationally by enabling the University's knowledge and expertise to be more widely and easily accessible to stakeholders. ConsultUCD was also established to support the wider academic and staff community who provide consultancy services to external clients and to ensure a high level of professionalism and commercial focus for clients engaging with the University.

## Partnering with Industry

UCD has a strong track record of working with industry and seeks strong and strategic engagement with business, social and cultural enterprises; adding value, expanding networks and exploring new opportunities to deliver impact through partnership.

Our innovation ecosystem includes large-scale industry collaborative programmes such as SFI-funded CSETs, Centres and Strategic Research Clusters, and Enterprise Ireland-funded and industry-led technology centres.

In addition over 250 companies have funded research at UCD in recent years and more than 1,000 companies have also collaborated with UCD on research projects.

Over 50 companies, ranging from early-stage high-tech start-ups to established innovation-led companies, are now located at UCD. These companies, which cover sectors from agriculture and food to life sciences to ICT to physical sciences, engineering and cleantech, are primarily based at NovaUCD, the Centre for New Ventures and Entrepreneurs or NexusUCD, the Industry Partnership Centre, and are located on campus in order to collaborate more closely with UCD.

## Commercialisation of Research Outputs

NovaUCD provides purpose-built, state-of-the-art incubation facility for knowledge-intensive companies alongside a comprehensive business support programme.

During the year several international delegations from countries including China, Malaysia, Scotland, Sri Lanka, The Netherlands, Turkey and USA visited NovaUCD to learn more about UCD's success in commercialisation and entrepreneurial activities.

Through UCD's technology transfer team based at NovaUCD, researchers from UCD and the National College of Art and Design (NCAD) are assisted with the identification and protection of intellectual property (IP) arising from research programmes and extending to the commercialisation of IP through licensing to companies and through the formation of spin-out companies.

The Enterprise Development and Innovation Education training team at NovaUCD also supports researchers in the commercialisation of IP outputs through a series of training programmes including the Innovation Sprint, Commercialisation Bootcamp and VentureLaunch Accelerator Programmes.

During the year researchers from UCD reported a total of 57 inventions. In addition 14 priority patent applications were filed by UCD across areas of engineering, information and communication technology, and life sciences. 15 licence agreements were also concluded by UCD with a range of indigenous and international companies and two new UCD spin-out companies incorporated.

### UCD Commercialisation Programmes

During the year ten UCD researchers completed two separate one-day UCD Innovation Sprint programmes, held in the MedTEch and Computer Science research areas, delivered at NovaUCD. The aim of the UCD Innovation Sprint programme is to encourage the development of commercial outputs arising from research taking place at UCD by engaging with researchers at an earlier stage in the commercialisation process.

During the year 11 researchers completed UCD Commercialisation Bootcamps delivered at NovaUCD. Participants on the bootcamps, represented a total of nine potential commercial projects emerging from research taking place at UCD. The overall aim of the UCD Commercialisation Bootcamp is to strengthen the pipeline of commercial opportunities arising from UCD and NCAD research programmes.

### UCD 2016 Start-Up Award

EpiCor Therapeutics, an early-stage biotech start-up, was declared overall winner of the 2016 UCD VentureLaunch Accelerator Programme. This programme supports the creation and launch of sustainable and profitable new ventures based on intellectual property emerging from UCD research programmes.

EpiCor Therapeutics is developing new disease-modifying treatments that target the mechanisms underlying the development of heart failure. The initial focus of EpiCor Therapeutics is to repurpose an existing drug, 5-azacytidine, for the treatment of a devastating heart disease called hypertrophic obstructive cardiomyopathy. The founders of EpiCor Therapeutics, a UCD School of Medicine start-up, are Dr John Baugh, Dr Nadia Glezeva, Dr Chris Watson, Dr Mark Ledwidge and Professor Ken McDonald.

### NovaUCD 2016 Innovation Award

The 2016 NovaUCD Innovation Award was presented to Professor Kevin O'Connor, UCD School of Biomolecular and Biomedical Science and UCD Earth Institute, by UCD President, Professor Andrew Deeks at an event held at NovaUCD. The award was presented to Professor O'Connor in recognition of the quality and impact of his peer-reviewed research, his technological developments for the production of bio-based products, as well as his industrial collaboration and successes in the commercialisation of the intellectual property arising from his research at the University.

### UCD Startup Stars

During the year UCD Startup Stars, an entrepreneurial support programme, now in its third year, for UCD undergraduate and postgraduate students who want to work together to build start-ups, was run by NovaUCD, the UCD Innovation Academy and the UCD Michael Smurfit Graduate Business School.

UCD Startup Stars began with a series of cross-disciplinary workshops and course modules delivered over a 3-month period at UCD Michael Smurfit Graduate Business School and UCD Innovation Academy. Five early-stage student ventures, with 15 team members, were selected to participate in an intensive mentoring programme which took place over a four-week period at NovaUCD.

The aim of this programme was to assist the students in refining their start-up ideas and included a series of structured workshops from industry experts, interactive workshops, regular pitching sessions and mentoring.

Following final pitches to a panel of judges O'Kale Krisps was declared overall winner of this year's programme. O'Kale Krisps, an early-stage food venture, has developed and is selling low-calorie, highly nutritious and air-dried kale crisps to give consumers a unique and healthy snack alternative when they are on the go.

The members of the O'Kale Krisps team are UCD undergraduate students, Jack Parsons (Business and Law) and Oisín McElhinney (Arts).

The sponsors of UCD Startup Stars programme are AIB, Arthur Cox, Ericsson, Goodbody Stockbrokers, Growing Capital and Xilinx.

### 2017 BT Young Scientist Business Bootcamp

The aim of the BT Young Scientist Business Bootcamp, delivered annually by BT in partnership with UCD, is to bridge the gap between education and business for students who demonstrate entrepreneurial flair and business acumen.

Now in its eighth year, the four-day innovation and skills camp, held at NovaUCD, involved 30 second-level students from across Ireland who demonstrated an ability to understand how and why a simple idea can be developed into a commercially-viable enterprise.

The participating students were selected from all the secondary school students who competed in the 2017 BT Young Scientist and Technology Exhibition. A talented group of teenagers from Galway, Cork, Kilkenny, Offaly and Dublin were declared overall winner of this year's programme with their project entitled Mi Contact. The winning project is an app based on applied behaviour analysis to enhance early intervention programmes, and to encourage children with autism to make eye contact.

### Fundraising Success

During the year several UCD spin-out and spin-in companies were successful in raising funding and announcing new jobs.

Kinesis Health Technologies, a UCD health technology spin-out, closed its first investment round and secured €590,000 to expand global sales of its intelligent health diagnostic devices. The funding was raised from a consortium of private investors alongside a High-



Pictured (l-r) are co-founders of EpiCor Therapeutics, a UCD School of Medicine start-up, Dr Chris Watson, Dr Nadia Glezeva and Dr John Baugh, winner of the 2016 UCD VentureLaunch Accelerator Programme.

Potential Start-up investment from Enterprise Ireland. Kinesis was founded in 2013 by Seamus Small and Dr Barry Greene as a spin-out company from the Technology Research for Independent Living (TRIL) Centre, a large ageing research programme, at UCD. The company is currently headquartered at NexusUCD.

Terra Solar, a UCD spin-in company, secured a €2.5 million investment from the ESB to accelerate the development of solar energy generation in Ireland. Terra Solar and ESB have the potential to deliver over 260 megawatts of electricity generation capacity from solar energy, which would power over 50,000 homes every year. Terra Solar was founded by David Fewer and André Fernon and is headquartered at NovaUCD.

OncoMark, a UCD spin-out company, secured €2.1 million in a funding round which included; Kernel Capital, through the Bank of Ireland Kernel Capital Venture Funds, the Irrus Investments syndicate, the Galway HBAN MedTech syndicate, private investors and Enterprise Ireland. OncoMark is focused on the development of novel panels of cancer biomarkers, to aid treatment decisions and allow more tailored patient management, ultimately improving the quality of life for cancer patients. This investment round will fund the commercialisation of OncoMark's lead product, OncoMasTR, which it plans to launch in 2018. OncoMasTR is a novel prognostic test for early-stage breast cancer that will reduce the number of breast cancer patients receiving unnecessary chemotherapy. The company, which was co-founded by Professor William Gallagher and Steve Penney as a spin-out from UCD's School of Biomolecular and Biomedical Science, is headquartered at NovaUCD.

OxyMem, a UCD spin-out company, secured an investment from Saudi Aramco Energy Ventures (SAEV), the corporate venturing subsidiary of Saudi Aramco, a world leader in integrated energy and chemicals. OxyMem's ground-breaking Membrane Aerated Biofilm Reactor technology has the potential to bring wastewater treatment closer to energy neutrality by reducing energy consumption for aeration by up to 75%. The funds raised will enable the company to further focus on growing the business by increasing investments in product development, expanding its manufacturing capacity and increasing its sales force. OxyMem was co-founded by Wayne Byrne, Professor Eoin Casey and Dr Eoin Syron in 2013 as a spin-out from UCD's School of Chemical and Bioprocess Engineering.

### Other Successes

- During the year UCD won a 2017 Knowledge Transfer Ireland Award. The University received the Knowledge Transfer Initiative of the Year Award, jointly with Trinity College, in recognition of the establishment and launch of the Atlantic Bridge €60 million University Bridge Fund.
- Ciara Donlon, founder and CEO of THEYA Healthcare, was named Laureate for Europe at the final of the 2017 Cartier Women's Initiative Awards. Since 2006, this award has sought to encourage and support female entrepreneurs from around the world, who are leading creative, socially impactful and financially sustainable start-up companies. THEYA Healthcare, headquartered at NovaUCD, which was formally launched in 2015, designs and manufactures healthcare garments. The company's flagship post-surgery lingerie range, designed primarily for use by breast cancer patients, retails across Ireland and the UK and has also been launched in Europe and Canada.

## UCD Spin-Out CEO Wins Enterprise Ireland Award

Tony McEnroe, CEO of SiriusXT, a UCD spin-out company, has won Enterprise Ireland's inaugural High Potential Start-up Founder of the Year Award which is supported by Grant Thornton. SiriusXT was co-founded in 2015 by Dr Kenneth Fahy, Dr Fergal O'Reilly, Dr Paul Sheridan and Tony McEnroe. The company was established following eight years of research in UCD School of Physics developing technology that underpins a novel soft x-ray tomography (SXT) bench-top microscope. This microscope, the SXT100, is now being commercialised by SiriusXT. The SXT100 is the only high throughput, lab-based solution, for imaging subcellular structures. The microscope's high resolution imaging modality is capable of quantitatively imaging the subcellular organisation of whole hydrated cells up to 15µm thick at resolutions up to 40nm, in their native state, with very little preparation and without the use of stains or other contrast enhancing agents.

## UCD Innovation Academy

This year the UCD Innovation Academy engaged with the widest range of learners to date from students in second-level education to senior managers in some of Ireland's leading companies.

### Highlights

- **250 graduates from across Ireland were reskilled** through the Postgraduate Certificate in Innovation, Entrepreneurship and Enterprise in collaboration with the HEA Springboard initiative;
- **187 undergraduate students participated** in the modules Introduction to Creative Thinking and Entrepreneurial Endeavour;
- **100 secondary school children from the Dublin area**, with 40% of participants coming from DEIS Schools, participated in a Creativity, Innovation and Entrepreneurship summer programme;
- **88 PhD students participated** in modules in Creative Thinking, Social Entrepreneurship and Opportunity Generation and Recognition;
- **54 students from UCD College of Science and UCD College of Health and Agricultural Sciences** participated in a bespoke online module in Creative Thinking and Innovation;
- **54 professional educators**, including UCD faculty, participated in the Professional Certificate and Diploma for Entrepreneurial Educators;
- **100 UCD undergraduate students** successfully took part in the second UCD Industry Immersion Day hosted by Deloitte, in Dublin.

The UCD Innovation Academy continued to grow its engagement with industry during the year and collaborated with 55 organisations across all accredited undergraduate and postgraduate programmes and modules.

The UCD Innovation Academy also developed and implemented a number of bespoke learning programmes for leading companies in the professional services, financial services and energy industries in Ireland during the year and piloted an online programme in collaboration with Enterprise Ireland using a newly developed learning platform (online.innovators.ie). These programmes, designed to build capacity for innovation, reached 280 junior, middle and senior managers.

Following a successful pilot initiative, the UCD Innovation Academy expanded its work with the Ministry of Higher Education in Malaysia,

UKM and UiTM through the Entrepreneurial Educator Enhancement Programme (3EP). The programme, designed to support academics to enhance their teaching practice has reached approximately 300 academics from across the higher education sector in Malaysia.

Professor Suzi Jarvis and Dr Colman Farrell represented UCD Innovation Academy at the first Entrepreneurial Educators Summit in Kuala Lumpur and the UCD Innovation Academy hosted a number of student and academic delegations from China, Denmark, Saudi Arabia, Vietnam and the United States.

The UCD Innovation Academy's International Advisory Board met during the year and guests during the year included; Minister for Education and Skills, Richard Bruton TD; Minister for Jobs, Enterprise and Innovation, Mary Mitchell O'Connor TD; Dr Graham Love, CEO, HEA; Denis O'Brien, CEO, Communicorp and Mark Little, former Managing Director, Twitter Ireland.



## UCD Research Institutes

**UCD Geary Institute for Public Policy**  
Professor Philip O'Connell, Director

**UCD Conway Institute of Biomolecular and Biomedical Research**  
Professor William Gallagher, Director

**UCD Earth Institute**  
Associate Professor Tasman Crowe, Director

**UCD Institute for Discovery**  
Associate Professor Patricia Maguire, Director

**UCD Humanities Institute**  
Professor Anne Fuchs, Director

**UCD Institute of Food and Health**  
Professor Dolores O'Riordan, Director

**UCD Energy Institute**  
Associate Professor Andrew Keane, Director



LÁRIONAD EOLAÍOCHTA UÍ BHRIAN  
O'BRIEN CENTRE FOR SCIENCE



It's a sell out! *Night at the Movies* – with the UCD Symphony Orchestra and UCD Philharmonic Orchestra.



**Professor Sarah Prescott**  
College Principal

**Vice-Principal for Graduate Studies**  
Mr Patrick Cooke

**Vice-Principal for Research, Innovation and Impact**  
Associate Professor Jane Grogan

**Vice-Principal for Teaching and Learning**  
Associate Professor  
Rosario-Maria Hernandez

**Vice-Principal for Global Engagement**  
Professor Robert Gerwarth

**Dean of Arts**  
Associate Professor Marie Clarke

# College of Arts and Humanities

The academic year 2016/17 has seen significant developments and achievements in the College of Arts and Humanities across the key strategic areas of excellence in research, national and global engagement and world-class educational provision.

The College has continued to build significantly on its established academic success and international reputation. As a result, a range of arts and humanities subjects are now represented in the top 100 in the QS World Rankings 2017, with a notable rise for English language and literature to the top 50 at number 45.

In the past year, the College has undertaken significant educational innovation through the development of new and revised BA programmes, which will receive their first intake of students in 2018. In addition to completing a major curriculum review across all programmes, colleagues in the College's constituent Schools have worked to develop a new innovative four-year BA Humanities as well

as implementing major revisions to the three-year BA Arts. The new degrees will add choice and flexibility of study for students, as well as create exciting opportunities for interdisciplinary pathways, structured internships, extended research projects and international study experience. Creative Writing will be taught as an undergraduate subject for the first time in 2018.

Excellence in teaching and commitment to the student experience in the College was also recognised and celebrated this year through a total of 12 teaching awards received at College level as well as two at University level: Dr Fionnuala Dillane received a 'University Award for Outstanding Contribution to Student Learning (Leadership in Education)' and Dr Paul Perry was the recipient of a 'University Award for Teaching Excellence'.

The College attracted a range of international and Irish funding bodies to support the excellence of its research, including the Department of Arts, Heritage and the Gaeltacht, the Department of Foreign Affairs and Trade, the Irish Research Council, the Heritage Council, Enterprise Ireland, The Wellcome Trust, and the Royal Embassy of Saudi Arabia Foreign Foundation. Among the many colleagues in the Arts and Humanities who received awards and attracted evidence of esteem for their research in the last year were Associate Professor Elva Johnston (History), who was selected to deliver the Kathleen Hughes Memorial Lecture at the University of Cambridge, and Dr Conor Lucey (Art History and Cultural Policy), who was appointed President of the Royal Society of Antiquaries in Ireland. Professor Maeve Conrick was awarded the Governor General's International Award in Canadian Studies, the first time an Irish academic has received this honour. Professor Sarah Prescott was elected Fellow of the Royal Society of Arts and Fellow of the English Society. The leadership potential of female colleagues in the College was also recognised by the engagement of Dr Selena Daly (Languages, Cultures, and Linguistics) and Catherine Carey (Clinton Institute) in the 2016/17 Aurora Leadership Development Programme for Women. PJ Mathews received Foreword Reviews' 2016 INDIES Book of the Year Award (Bronze) for *Handbook of the Irish Revival: An Anthology of Irish Cultural and Political Writings 1891–1922*.

Our students also achieved notable recognition this year, including Emma Dunne (Languages, Cultures and Linguistics), the winner of the Audience Prize/le Prix du Public for the presentation of her thesis 'Le Boheur dans les Oeuvres Complètes d'Isabelle de Charrière' at Month of La Francophonie in Ireland; Dr Mirna Vohnsen (Languages, Cultures and Linguistics) who was awarded a Postgraduate Publication

Prize (2017) by the Association of Hispanists of Great Britain, for her doctorate 'Rethinking Argentinidad: Portrayals of Jews in Contemporary Argentinian Cinema'.

The Schools and Institutes also organised and hosted a number of distinguished lectures, talks, seminar series and international conferences throughout 2016/17, including 'Commemorating 1916 and the absence of State Formation' (English, Drama, and Film, October 2016); A Conversation with Roddy Doyle on Translating Don Giovanni (Languages, Cultures, and Linguistics, October 2016); The Keith Cameron Annual Lecture on Australian History (History, November 2016); The Dublin Classics Seminars (Classics, March/April 2017); Trump's America (UCD Clinton Institute, May 2017); the Global Irish Diaspora Congress (Irish, Celtic Studies and Folklore, August 2017).

The School of Art History and Cultural Policy continued to celebrate its 50-year anniversary by launching *Art History after Françoise Henry*:

**// The College has continued to build significantly on its established academic success and international reputation. As a result, a range of arts and humanities subjects are now represented in the top 100 in the QS World Rankings 2017 //**



Dr Selena Daly, School of Languages, Culture and Linguistics, with author Roddy Doyle at the 'A Conversation with Roddy Doyle: Translating Don Giovanni' event, at the Italian Institute of Culture.

## Arts and Humanities

Left: Dr Paul Perry, School of English, Drama and Film, winner of a University Award for Teaching Excellence.

Centre: HE Anne Anderson, recipient of the 2016 UCD Alumni Award in Arts and Humanities.

Right: Dr Fionnuala Dillane, School of English, Drama and Film, winner of University Award for Outstanding Contribution to Student Learning.



### College of Arts and Humanities consists of seven schools

#### UCD School of Art History and Cultural Policy

Head of School  
Dr Nicola Figgis

#### UCD School of Classics

Head of School  
Dr Alexander Thein

#### UCD School of English, Drama and Film

Head of School  
Professor Danielle Clarke

#### UCD School of History

Head of School  
Associate Professor Tadhg Ó hAnnracháin

#### UCD School of Irish, Celtic Studies and Folklore

Head of School  
Associate Professor Regina Uí Chollatáin

#### UCD School of Languages, Cultures and Linguistics

Head of School  
Professor Bettina Migge

#### UCD School of Music

Head of School  
Dr Jaime Jones

As of September 2016

## // The year ended on another high note for the College of Arts and Humanities as the summer months celebrated the **second UCD Festival** and saw the next stage in the exciting **development of the Ulysses Centre at Newman House** //

*50 years at UCD – 1965-2015* in November 2016 and by hosting the Françoise Henry Symposium, supported by the French Embassy and the College of Arts and Humanities, in June 2017. In April, the UCD Centre for Canadian Studies and the 2016/17 UCD Craig Dobbin Chair of Canadian Studies, Professor Linda Morra (Bishop's University), organised the two-day international conference 'Untold Stories of the Past 150 Years'.

Throughout the year, Dr Ciaran Crilly and Dr Desmond Earley from the School of Music directed a series of concerts, recitals and performances of the UCD Symphony Orchestra and the UCD Choral Scholars respectively, including the two-night sold-out performance of 'Nights at the Movies' (UCD Symphony Orchestra and UCD Philharmonic Choir, November 2016). In August 2017, Dr Earley was commissioned by a North American classical radio station to write a new eight-minute piece, 'Body of the Moon', to soundtrack the solar eclipse as it passed over the West coast state of Oregon. In 2016, honorary doctorates were bestowed on diplomat and peacemaker Tim O'Connor, the archaeologist Professor Sir Barry Cunliffe and the writer Dame Hilary Mantel.

The global impact and calibre of UCD alumni in the Arts and Humanities and the resonance of Irish literature on the international stage was celebrated in New York in February when Colm Tóibín was awarded the UCD Foundation Day

Medal. The event featured a reading from his work by Colm and an in-conversation interview with Professor Margaret Kelleher (Chair of Anglo-Irish Literature and Drama). In November of the previous calendar year, the College was delighted to welcome Anne E Anderson (17th Ambassador of Ireland to the United States) to UCD when she was honoured as the UCD Alumni Award winner for the Arts 2016.

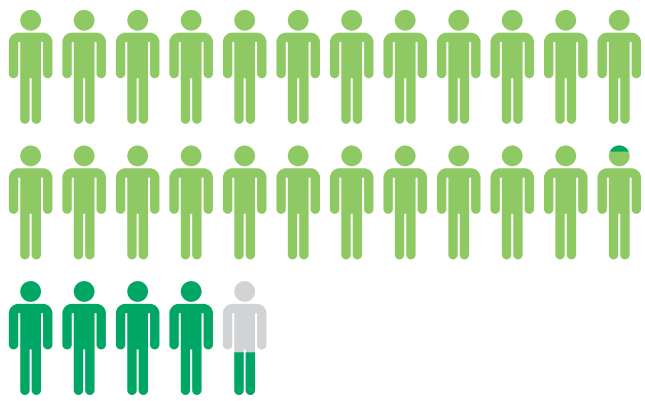
In terms of wider engagement, the year ended on another high note for the College of Arts and Humanities as the summer months celebrated the second UCD Festival and saw the next stage in the exciting development of the Ulysses Centre at Newman House. The Arts and Humanities' cultural and literary contributions to the Festival in June were extremely well-attended and received; highlights included 'In Conversation: The Cusacks join Frank McGuinness on Stage' which celebrated their significant contribution to the arts and culture in Ireland and beyond. In July, Simon O'Connor (founding curator of the Little Museum of Dublin) was appointed Director of the Ulysses Centre and the College looks forward to future collaborations with this unique literary and cultural resource, which is scheduled to open in Spring 2019.

**Professor Sarah Prescott**  
College Principal





**2,626** Total students in Ireland




**2,194**

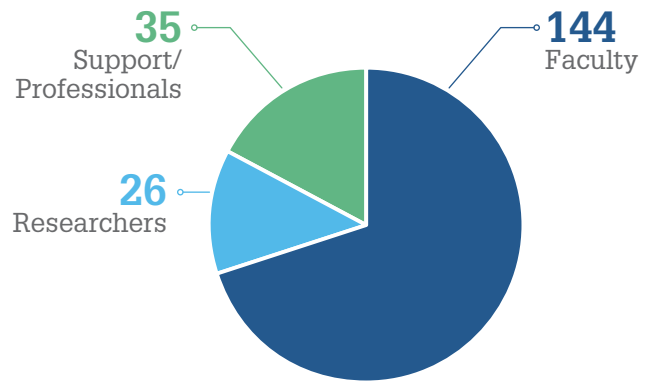
Undergraduate students (FTE)

**432**

Graduate students (FTE)

 = 100 people (approx.)

**205** Total staff (FTE)



**€1.9m**

Research awards





2020 Strategy Launch with Professor Ciarán Ó hÓgartaigh and Mr Niall FitzGerald, Chairman of the UCD Smurfit School Advisory Board.



**Professor Ciarán Ó hÓgartaigh**  
**College Principal/Dean**  
**UCD College of Business**

# College of Business

The UCD College of Business has a vibrant, diverse, and growing student community of 2,039 undergraduate students, 1,375 postgraduate students, 2,000 executive development participants and 4,515 overseas students based at our three campuses in Hong Kong, Singapore and Sri Lanka.

In October 2016 we launched our UCD College of Business 2020 Strategy. This strategy embeds our vision and ambition – to be a leader in business education and research, firmly ranking in the world’s top 50 business schools. Our team of 100 faculty and 160 professional staff are driven by a shared commitment to deliver on our strategic ambition, to the benefit of our students, UCD and Ireland.

## Research, Innovation and Impact

The 2016/17 academic year was another year of achievement and progress for our research activities. Over the past three years our research output in top ranked journals has increased

by 63%. There has also been a significant increase in the success of our faculty in winning competitive funding awards, with awards totalling €5 million won in the past year. These awards notably include an ERC Consolidator award by Professor Roland Erne for his European Union project on Labour Politics and the EU’s New Economic Governance Regime; a Science Foundation Ireland Strategic Partnership award on the theme of Valuation and Risk, led by Professor John Cotter; an Irish Research Council CAROLINE Fellowship, led by Associate Professor Maeve Houlihan on Financing the Sustainable Development Goals: Enhancing the role of Law in the Governance of Blended Finance; and H2020 funding awarded to Dr Seán McGarraghy as part of the VALUMICS project: Understanding food value chains and network dynamics.

September 2017 also marked the official launch of a new research grouping within the College, the UCD Centre for Business and Society. This centre aims to encourage responsible business practice through a collaborative effort bringing together academic researchers, business, government, NGOs, and consumers to develop best practice models.

## Education and student experience

Across the College, we work to enable the leaders of today and tomorrow to develop the insight, expertise and impetus they need to make an impact in their fields. We strive to cultivate informed, agile and critical thinkers and doers by creating opportunities to learn from diverse perspectives and in diverse settings.

In 2016/17 a key focus has been what we teach, and how we teach it, linking to student experience and student outcomes. Through

**// Over the past three years our research output in top ranked journals has increased by 63%. There has also been a significant increase in the success of our faculty in winning competitive funding awards, with awards totalling €5 million won in the past year //**

the University Curriculum Review process we reviewed and mapped outcomes across all our programmes. We carried out a significant review of our largest undergraduate programme (the BComm) leading to important changes which will benefit our students' educational experience. This review was led by Associate Professor Ciaran Heavey. The BSc in Economics and Finance also underwent a major review, this being led by Professor Valerio Poti.

During the year, we performed well on external rankings, with three of our MSc programmes being ranked in their respective global top 50 by the Financial Times. We have been re-accredited by a number of international, external, bodies including AMBA, CEMS and PRME. Our overseas programmes in Singapore and Hong Kong also underwent a very constructive quality review process.

In 2016/17 we continued to invest in enhancements and innovations in the learning environment including supports for students and faculty with programmes such as 'Academic Writing Support', 'Entrepreneur in Residence Programme' and 'Proudly Made in Africa Programme'. Investments in eLearning continue, supported by our dedicated Business eLearning Team. We were also delighted to welcome Artist in Residence Alice Rekab to the College as part of the UCD Parity AIR Scheme.

## Engagement and Partnership

To advance our 2020 strategy, the College has embarked on a transformative philanthropy campaign entitled Extending our Edges of Excellence. The campaign is allowing the College to create a 'new economy' curriculum, focusing on areas of global relevance where



Professors Donna Marshall, Colm McLaughlin and Andy Prothero at The UCD Centre for Business and Society (CeBaS) launch.

Ireland has competitive advantage. Significant funding raised in 2016/17 is enabling us to recruit new Chairs, increase the number of scholarships we can provide to our students, and reinvest in the provision of state-of-the-art facilities.

The College strives to continually grow and improve engagement with all its stakeholders – students, faculty and professional staff, alumni, industry/corporates as well as external partners in international academic groupings including GNAM, PIM, PRME and CEMS. We are proud to be part of these prestigious global alliances, connecting us with other leading business schools and the business community globally. These partnerships place us on the global map and provide unique opportunities for our students.

## Community

Our business alumni population has grown to over 80,000 located across over 100 different countries. With 35 active global alumni chapters, 65 events and activities were held during the year across these locations offering alumni and friends the opportunity to connect, network and reconnect with other alumni and their alma mater.

During 2016/17, the Alumni Portal was launched as an online platform for students and alumni to engage with each other and with UCD. This platform has many functions but a key feature is its ability to facilitate online mentoring between students and alumni and amongst alumni themselves.

Left: Dave Bunworth, Annmarie Cunningham and Alan Ralph at the 2017 Alumni Awards.



The College facilitates dialogue and debate on key issues by hosting events and speakers and contributing to public debate. Among a busy 2016/17 schedule the School hosted the Annual Irish Academy of Management Conference led by Associate Professor Colm McLoughlin and a large team, welcoming 190 delegates from 12 different countries. The theme of the conference was 'Ireland 2016: Re-imagining business and the role of ethics', thereby connecting with the national commemorations of the 1916 Easter Rising but also inviting us to re-imagine a better future.

## College Developments

The 2016/17 academic year was a particularly busy one in terms of infrastructural developments at the College. The new €5 million bespoke UCD Smurfit Executive Development Centre was officially opened by Dr Michael Smurfit.

The Smurfit School restaurant was extensively remodelled and refurbished over the summer months and today offers students a social and community space.

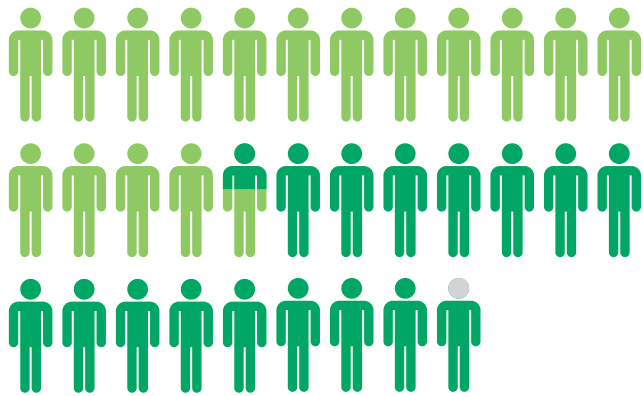
A handwritten signature in black ink, appearing to read 'Ciarán Ó hÓgartaigh'.

Professor Ciarán Ó hÓgartaigh  
College Principal/Dean UCD College of Business

Right: Pictured at the new UCD Smurfit Executive Development Centre are Niall FitzGerald, KBE, Chairman of UCD Smurfit School Advisory Board, Helen Brophy, Director Smurfit Executive Development and Dr Michael WJ Smurfit.



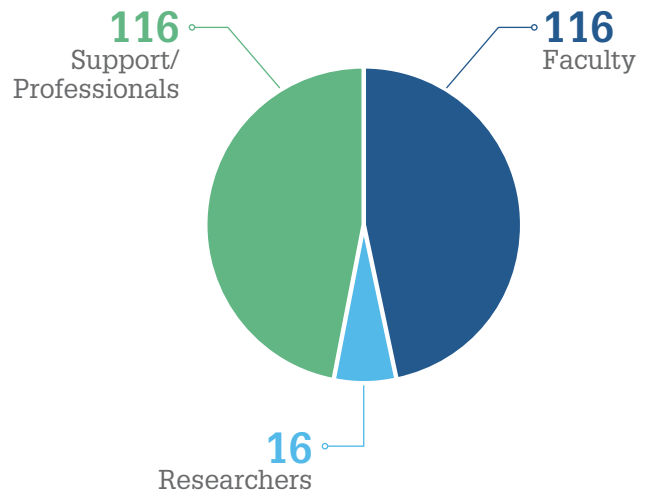
**3,284** Total students in Ireland



**1,660**  
Undergraduate students (FTE)

**1,624**  
Graduate students (FTE)

**248** Total staff (FTE)




**3,529** Total students overseas



**3,259**  
Undergraduate students (FTE)

**270**  
Graduate students (FTE)

**€5.06m**   
Research awards

 = 100 people (approx.)

FTE = Full Time Equivalent



Pictured at the 2016 UCD Alumni Awards Ceremony (l-r) Professor Andrew Deeks, UCD President, Mr Ian Quinn, Creganna and Professor David FitzPatrick, College Principal, College of Engineering and Architecture.



**Professor David FitzPatrick**  
**College Principal/  
Dean of Engineering**

**Dean of Architecture**  
Professor Hugh Campbell

**Associate Dean of Architecture**  
Mr Dan Sudhershan

**Vice Principal for  
Teaching & Learning**  
Associate Professor Amanda Gibney

**Vice Principal for Research,  
Innovation & Impact**  
Professor David Browne

# College of Engineering and Architecture

The College of Engineering and Architecture has had a long legacy of excellence in education and research, and to commemorate this, two anniversaries were celebrated in the last academic year.

A programme of events with the theme of 'Planning Futures' was scheduled over 2016/17 to mark the 50th anniversary of UCD Planning, and in November, 400 UCD graduates and friends returned to the O'Reilly Hall to celebrate 60 years of UCD Chemical and Bioprocess Engineering. This is the largest and oldest school of its kind in Ireland and has, since 1956, produced more than 1,400 graduates, who have gone on to play leading roles in industry and in business, throughout the world.

## Research, Innovation and Impact

Over €17.36m in new grants was registered in the past year, of which 26% is from the European Commission, and 18% involving industry-academic collaboration through a combination of research funded directly by industry, and partnership programmes sponsored by funding agencies.

In September 2017 Science Foundation Ireland (SFI) launched four new SFI Research Centres, with investment of over €144m from SFI and Industry, two of which are led by UCD, with College involvement.

The I-Form Advanced Manufacturing SFI Research Centre is led by Professor Denis Dowling and involves Professors Bob Shorten, Fengzhou Fang, Alojz Ivankovic of UCD School of Mechanical and Materials Engineering, Professor Pádraig Cunningham of UCD School of Computer Science, and academic partner institutions include Dublin City University, NUI Galway, Trinity College Dublin, Institute of Technology Sligo and Waterford Institute of Technology. I-Form will enhance processing efficiency for Irish manufacturing.

The BEACON Bioeconomy SFI Research Centre is led by Professor Kevin O'Connor of UCD School of Biomolecular and Biomedical Science and also involves Professor Eoin Casey of UCD School of Chemical and Bioprocess Engineering and Professor Nick Holden of UCD School of Biosystems and Food Engineering as Co-Principal Investigators. Academic partner institutions include TCD, University of Limerick, NUIG and Teagasc. BEACON addresses multiple scientific, technological and social challenges to convert residues in the agri-food and marine sectors into higher value products.

This year Associate Professor Dieter Kogler joined the UCD School of Architecture, Planning and Environmental Policy with a prestigious European Research Council (ERC) Starter Grant of over €1m awarded by the European Commission for a project entitled Technology Evolution in Regional Economies (TechEvo). In total, the College hosts 6 ERC award holders (Associate Professor Aoife Gowen, Professor Debra Laefer, Professor Eoin Casey, Professor Bogdan Staszewski, Professor Madeleine Lowery and Associate Professor Dieter Kogler).

It has been a very successful year for members of the College, many of whom have received prizes and measures of esteem:

Below left: 2016 EGA Gold Medal-Winners: [Front Row] Muyang Liu, Electrical Engineering; Gerard Murphy, Electronic Engineering; Anna McHugh (mother of Rosin McHugh), Architecture; Caitlin McDonnell, Structural Engineering with Architecture; Michael Murphy, Biosystems Engineering [Back Row] Art O'Connor, Chemical Engineering; Keith O'Donovan, Mechanical Engineering; Minjie Liu, Civil Engineering; Christopher Bohane, Engineering with Business; Robert Brennan, Biomedical Engineering.

- **Professor Tony Fagan** was awarded the 2016 Parsons Medal for Engineering Research by the Irish Academy of Engineering for his role in the improvement of global communication technology.
- **Professor Gerry Byrne** received the Fraunhofer Thaler Award in recognition of his outstanding leadership and significant achievements in the field of applied research.
- **Associate Professor Finola O'Kane Crimmins** was elected to the Royal Irish Academy in May 2017 for her ground-breaking publications on the history of Irish landscape design.
- **Graduates and Adjunct Full Professors Yvonne Farrell and Shelley McNamara** of Grafton Architects and the UCD School of Architecture, Planning and Environmental Policy, were awarded the RIBA International Prize for their design of the Universidad de Ingeniería y Tecnología building in Lima, Peru.
- **I was delighted to be awarded** the 23rd RAMI Silver Medal from the Section of Bioengineering of the Royal Academy of Medicine in Ireland for my contribution to the field of bioengineering.

Spin-out activity from the College also continues to receive awards in recognition of innovation and entrepreneurial achievements. Professor Brian Glennon and Dr Mark Barrett, co-founders of APC Ltd, received the 2016 SFI Entrepreneurship Award. Spin-out company OxyMem, founded by Professor Eoin Casey and Dr Eoin Syron, was named in the prestigious 2017 Global Cleantech 100, a comprehensive list of private companies with the highest potential to make the most significant market impact over the next five to ten years.

Two new start-up ventures emerging from the College were showcased at the 2016 UCD VentureLaunch Accelerator Programme. DuBrand, founded by Dr Eamonn Ahearne, Dr Diego Carou and Dr

Below right: Aoife Corcoran and Phillip Crow's startup SME Space Engagers has received a ThinkTech award of €100,000 funded by Google Ireland, Social Innovation Fund Ireland and the Department of Housing, Planning, Community and Local Government. Aoife and Phillip are currently PhD students in the School of Architecture, Planning and Environmental Policy and have both participated in an FP7 project Transitioning Towards Urban Resilience and Sustainability (TURAS; 2011-16). As part of this project, they conceived and, in collaboration with Future Analytics Consulting Ltd, developed an application ReUsing Dublin, which formed the basis for founding their own non-for-profit company.



## Engineering and Architecture

Professor Gerry Byrne receiving the Fraunhofer Thaler Award from Professor Reimund Neugebauer in recognition of his outstanding leadership and significant achievements in the field of applied research.



**Graduate School Director**  
Associate Professor  
Kenneth Stanton

**UCD College of  
Engineering and  
Architecture consists  
of six schools**

**UCD School of Architecture,  
Planning & Environmental Policy**  
Head of School  
Professor Hugh Campbell

**UCD School of Biosystems  
& Food Engineering**  
Head of School  
Professor Colm O'Donnell

**UCD School of Chemical &  
Bioprocess Engineering**  
Head of School  
Professor Eoin Casey

**UCD School of Civil Engineering**  
Head of School  
Associate Professor Aoife Ahern

**UCD School of Electrical &  
Electronic Engineering**  
Head of School  
Associate Professor Andrew Keane

**UCD School of Mechanical  
& Materials Engineering**  
Head of School  
Professor Michael Gilchrist

As of September 2016

Jinghang Liu of the School of Mechanical and Materials Engineering, is developing novel technology to protect medical device brands and provide anti-counterfeit protection and traceability for medical device parts, meeting stringent industry regulations.

Latch Medical founded by Dr Eoin O'Cearbhaill of UCD School of Mechanical and Materials Engineering, with Dr Seamus Morris and Dr Nicky Bertollo, UCD School of Medicine, is developing a revolutionary tissue anchorage system based on microtechnology to decrease infection risk, improve cosmetic outcomes and save operative time in surgery.

In addition, Dr Shane Keaveney and Dr Colin Keogh established a charity, The Rapid Foundation, to help provide 3D printed supports in low-resource settings and recently ran pilot projects in India and Uganda, in conjunction with UCD Volunteers Overseas.

## Education and Student Experience

In 2015, UCD embarked on a Curriculum Review and Enhancement Process, led by Associate Professor Amanda Gibney, Vice-Principal for Teaching and Learning. This process was aligned to the UCD Strategy 2015–2020 strategic initiative 2: Defining Educational Excellence. Programme action and implementation plans have been developed, and programme enhancements are progressing in the areas of assessment, feedback and the development of skills and attributes.

The inaugural award of the annual Tiernan Byrne Medal was made at the UCD Awards ceremony in March. This award was presented to John Fleming, in recognition of his outstanding performance in geotechnical engineering. The School of Civil Engineering initiated this award in memory of an

inspiring young graduate, Tiernan Byrne, who passed away during the course of his PhD studies in geotechnical engineering. Tiernan had a very positive attitude to life and his ability to cope with his illness was truly inspiring. In May, the College supported the Tiernan Byrne Memorial Maths and Coding Workshop, with engineering students Sophie Cassidy, Joshua Gorman, James Carron and Christopher Hill volunteering as tutors on the day. The proceeds of the workshop have been kindly donated by Tiernan's family to the UCD School of Civil Engineering to fund a new Tiernan Byrne Bursary, to support students in financial need.

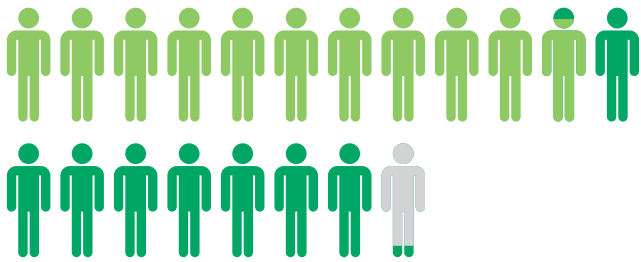
Inaugural College Teaching and Learning Awards were presented this year to celebrate the achievements of colleagues who have made a significant contribution to the pursuit of teaching excellence and the enhancement of student learning. There were two categories of award: Teaching Excellence Awards, which recognised faculty and staff in teaching roles for sustained commitment to teaching excellence and student learning; and Outstanding Contribution to Student Learning Awards, which recognised individuals or teams of UCD faculty, staff, tutors or demonstrators who have made outstanding contributions to student learning in a specific area. Teaching Excellence Awards were presented to Dr Tom Curran, Dr Vincent Hargaden and Dr Arturo Gonzalez. Dr Hargaden was also awarded a University level award for this category. Outstanding Contribution to Student Learning Awards were presented to Barry Brophy, Dr Enda Cummins, Alice Clancy, Michael Heurich and Associate Professor Aoife Gowen. In addition, a group award was presented to the group lead Peter Cody for Foundation Year Studio – First Year Architecture.

A handwritten signature in black ink, appearing to read 'David FitzPatrick', written over a horizontal line.

**Professor David FitzPatrick**  
College Principal/Dean of Engineering




**1,917** Total students in Ireland



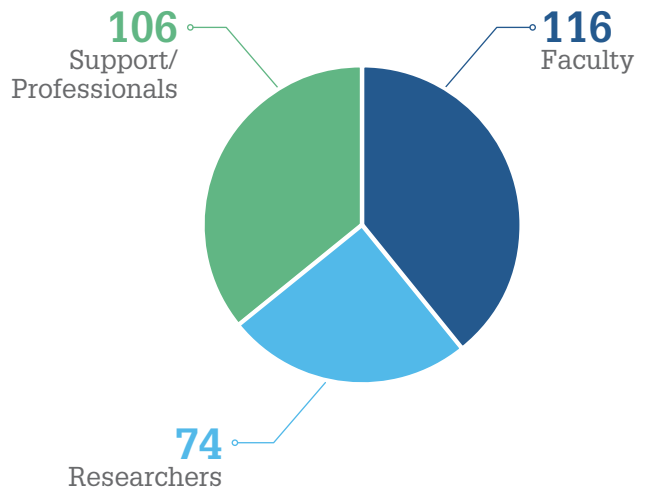
**1,081**  
Undergraduate students (FTE)

**836**  
Graduate students (FTE)

**72** Total students overseas (Undergraduate FTE)

 = 100 people (approx.)

**296** Total staff (FTE)



**€17.36m**   
Research awards

Below left: Pictured at the 2016 Engineering Graduates Association Autumn Panel Discussion on 'Engineering, Research, Innovation and Job Creation' are (l-r): Professor Eoin Casey, Head, School of Chemical & Bioprocess Engineering; Dr Helen McBreen, Investment Director, Atlantic Bridge; PJ Rudden, EGA President; Seán Kyne, TD Minister of State for Gaeltacht and Natural Resources; Professor Orla Feely, Vice-President for Research, Innovation and Impact and Professor David FitzPatrick, Principal and Dean of Engineering, College of Engineering and Architecture.

Below right: Ms Khadija Mu'azzam, a final year UCD Chemical & Bioprocess Engineering student, won the inaugural Engineers Ireland Talking Engineers competition in March 2017. The competition was open to final year engineering students, from all third-level institutions in Ireland, with each institution invited to nominate a single representative. Khadija's presentation focused on the success of Irish Chemical/Process Engineers in innovating locally for global application and on the challenges and opportunities facing young Engineers, like herself, as they embark on professional careers.





Over 300 Agricultural Science students from schools across Leinster donned their wellies and attended Lyons Research Farm for interactive learning, as part of Agri Aware's Farm Walk and Talk series, 2017.



**Professor Cecily Kelleher**  
**College Principal**

**Associate Dean for Research,  
Innovation and Impact**  
Professor Helen Roche

**Associate Dean for  
Teaching and Learning**  
Professor Jason Last

**Associate Dean for  
Global Engagement**  
Associate Professor Pat Felle

# College of Health and Agricultural Sciences

In 2016/17 UCD College of Health and Agricultural Sciences entered into its second year of operations and continued to embed its cross-cutting One Health theme, as well as beginning to develop an ambitious and overarching strategy.

The College groupings of Research, Innovation and Impact, Education and Training and Global Engagement continue to produce excellent work across the five constituent Schools to identify areas of synergy and shared best practice. A key development in the College this year has been the inclusion of the Health Affairs portfolio in the College structure, which will further strengthen the relationship with Ireland East Hospital Group and clinical partners in Health Sciences.

## Research, innovation and impact

Genomics Medicine Ireland (GMI) which was co-founded by Dr Sean Ennis, UCD School of Medicine secured Series A investment of \$40 million from sovereign and international investors. The investment will be used to establish a world-class genomic research and development program in Dublin and to create 150 highly-skilled jobs focused on advanced genomic research over the next three years. The investment will enable GMI to undertake comprehensive population-scale genome studies.



Above left: Prof Alex Evans, Head of UCD School of Agriculture and Food Science, receiving an award recognising outstanding leadership in agricultural education and training. Above right: Physiotherapy students with UCD Volunteers Overseas in Uganda in summer 2017.

These will improve understanding of the genetic and lifestyle factors involved in disease, contributing to better diagnostics, more targeted therapies, and more effective prevention and wellness.

The international jury for the Stockholm Prize in Criminology has recognised Professor Richard Tremblay, UCD School of Public Health, Physiotherapy and Sports Science as the leading scholar in the world in developing basic science connections between biological, family and social factors in human development. The judging panel recognised a lifetime of pioneering work, reflected in over 500 publications, beginning in Montreal in the 1980s and continuing today in Paris and Dublin with new research testing pre-natal crime prevention with at-risk mothers.

The UCD Wellcome Institutional Strategic Support Fund (ISSF), worth €2.2 million over five years, was awarded to drive key research initiatives within UCD's research themes of Personalised and Translational Medicine and One Health. Dr Clodagh Kearney and Dr Conor McAloon from the School of Veterinary Medicine were awarded funding under this scheme to research an equine model for new arthritis treatments and the role of the environment in bovine respiratory disease, respectively.

## Education and student experience

The College was delighted to be involved with the new UCD Teaching and Learning awards. There were four awardees for Teaching Excellence and five for Outstanding Contribution to student Learning at College Level, with three College staff going on to win university

level awards: Dr Niamh Nestor (SVM), Dr James Matthews (SPHPSS) and Dr Monica Gorman (SAFS).

The School of Agriculture and Food Science received a major award recognising outstanding leadership in agricultural education and training at the Agribusiness Awards in November. The awards ceremony provides an important opportunity to celebrate the many achievements in agriculture and food and was attended by more than 200 distinguished figures from across the industry.

As part of its regulatory function, the Nursing and Midwifery Board of Ireland (NMBI) conducted a site visit to the UCD School of Nursing, Midwifery and Health Systems in May. The visit consisted of an audit of professional degree programmes, visits to clinical sites, and meetings with faculty, staff and students.

## Engagement and partnership

UCD Centre for Emergency Medical Science received two international awards for its HeartSafe initiative. Together with the British High Commission, the Irish Defence Forces' Medical Corps, and the Irish Embassy in Sierra Leone, the UCD group developed a highly impactful programme which has seen the training of 150 personnel as cardiac first responders. In recognition of this achievement, the team were awarded Public Sector Organisation of the Year in the UK Heartsafe Awards in Manchester. The initiative also won the prize for best education project in the Irish Healthcare Awards 2016. Not content to rest on their laurels, the UCD group undertook an ambitious University-wide campaign to train over 600 faculty, staff and students.

## Health and Agricultural Sciences

Professor Philip Larkin (centre), UCD School of Nursing, Midwifery and Health Systems, President of the European Association for Palliative Care, with Dr Mikolasik, Chair, EPP Bioethics and Human Dignity Group, and Dr Benoit Beuselink, Belgium, at Professor Larkin's presentation to the European Parliament.



### UCD College of Health and Agricultural Sciences consists of five schools

#### School of Agriculture and Food Science

Head of School  
Professor Alexander Evans

#### School of Medicine

Head of School  
Professor Patrick Murray

#### School of Nursing, Midwifery and Health Systems

Head of School  
Professor Gerald Fealy

#### School of Public Health, Physiotherapy and Sports Science

Head of School  
Professor Giuseppe De Vito

#### School of Veterinary Medicine

Head of School  
Professor Michael Doherty

As of September 2016

The UCD School of Agriculture and Food Science has been leading a UCD initiative in conjunction with the School of Veterinary Medicine, Quinn School of Business and the College of Science to build a relationship with the University of Fondwa in Haiti, the country's only rural-based and rural-focused university. While it is still early stages in this very innovative and largely unscripted collaboration, this is an excellent example of UCD's global engagement strategy in action.

The School of Veterinary Medicine welcomed the Minister for Agriculture, Food and the Marine, Mr Michael Creed TD, to UCD on 11 July for the launch of the National Farmed Animal Health Strategy. Professor Michael Doherty, Dean and Head of School, and UCD President, Professor Andrew Deeks, welcomed the Minister and his team to campus. The launch of this important strategy in UCD is a recognition of the School's important role in this area and highlights our engagement with key partners such as the Department of Agriculture and Animal Health Ireland.

UCD School of Nursing, Midwifery and Health Systems continued its global engagement activities with a very successful Health Sciences Summer School, at which a record number of students from thirteen US universities attended, and also arranging the UCD-Duquesne University PhD Summer School. Through several patient and public involvement research projects, the School continued to collaborate with the health services, voluntary and statutory agencies and the public.

## Community

The Healthy UCD initiative is aligned to the Government-sponsored Healthy Ireland project and to the HSE effort to promote the WHO 'Healthy Campus' concept. The Healthy UCD Steering Committee, chaired by Professor Patricia Fitzpatrick of the UCD School of Public Health, Physiotherapy and Sports Science, has been formed to oversee the implementation of the strategy and endeavour to create a culture supportive of healthy choices for faculty, staff and students. The University is concerned with the development of the whole person and with providing opportunities to establish lifelong habits and attitudes for learning, welfare, community awareness, health and wellbeing.

During the summer of 2017, nineteen physiotherapy students and five physiotherapy clinical tutors travelled with UCD Volunteers Overseas to undertake clinical elective placements with four healthcare organisations in Uganda and India. Together with UCD medical, nursing, nutrition and dietetic students, they worked with local healthcare workers across projects supporting children with disabilities, their families and communities.

A handwritten signature in black ink, appearing to read 'Cecily Kelleher'.

**Professor Cecily Kelleher**  
College Principal

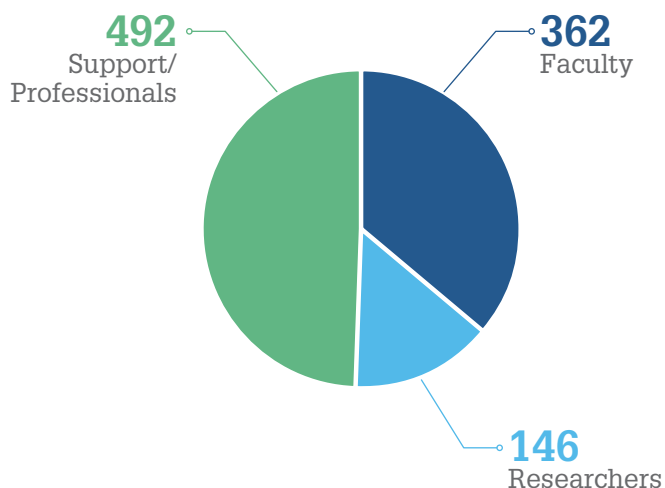
**// During the summer of 2017, nineteen physiotherapy students and five physiotherapy clinical tutors travelled with UCDVO to undertake clinical elective placements with four healthcare organisations in Uganda and India //**

**6,864** Total students in Ireland



**24** Total students overseas (Graduate FTE)

**1,000** Total staff (FTE)



**5,020** Undergraduate students (FTE)

**1,844** Graduate students (FTE)

**€33.83m** Research awards

**1 icon = 100 people** (approx.)

Prof Cecily Kelleher, (centre) with some of the CHAS Teaching and Learning Award winners (l-r) Professor Jeremy Simpson, Professor Guiseppe De Vito, Dr Deborah Wallace and Associate Professor Amanda McCann, School of Medicine, Professor Gerald Fealy. Back row (l-r) Professor Patrick Murray, Professor Michael Doherty, Dr James Matthews and Dr Cliona O'Sullivan, School of Public Health, Physiotherapy and Sports Science, Dr Sue Rackard, School of Veterinary Medicine and Professor Alex Evans.





TEAM, a new €4 million research and training network focused on developing new technologies to support the provision of mental health services for young people, was launched during the year at UCD. TEAM (Technology Enabled Mental Health for Young People), a 4-year Innovation Training Network (ITN), is being funded by the European Union's Horizon 2020 programme under the Marie Skłodowska-Curie actions initiative. Pictured is Dr David Coyle, TEAM project co-ordinator, and a researcher in human computer interaction at UCD's School of Computer Science.



**Professor Joe Carthy**  
College Principal/Dean

# College of Science

I am pleased to report that UCD College of Science enjoyed a successful 2016/17. During this period we grew our educational activities, attracted major research funding and continued to engage with partners and the community. For example, our outreach to 25 DEIS national schools involved almost 1,500 visits to our Kilty Outreach Lab for children from second to sixth classes.

## Associate Deans

**Associate Dean of Science**  
Associate Professor Tasman Crowe

**Associate Dean for International Study (North America)**  
Dr Jennifer Mitchell

**Associate Dean for Widening Participation**  
Associate Professor John O'Connor

## Teaching and Learning

UCD's flagship course, Science DN200, remains the most competitive common entry science course in the country, with a minimum entry of 510 CAO points. In addition, Computer Science DN201 and Actuarial and Financial Studies DN230 are also the most competitive courses in their respective areas. Overall the Science programme has widened participation with 20% of students from the HEAR, DARE, FET/QQI and mature student routes. It has also been a very successful year in increasing non-EU international students with significant increases at both taught graduate and undergraduate levels.

## Teaching and Learning Awards

There was strong engagement from the College with the new University Teaching and Learning Award Schemes. Students and academic staff nominated 116 individuals and teams for awards from which six Teaching Excellence awards and five Outstanding Contribution to Student Learning awards were made, including:

- **College of Science Teaching Excellence Awards:** Assistant Professor Tadhg O'Cróinín, School of Biomolecular and Biomedical Science; Associate Professor Emma Sokell, School of Physics; Assistant Professor Gavin Stewart, UCD School of Biology and

Environmental Science; Associate Professor John O'Connor, School of Biomolecular and Biomedical Science; Associate Professor Brian Vohnsen, School of Physics; and Associate Professor Patrick Murphy, School of Mathematics and Statistics.

- **College of Science Outstanding Contribution to Student Learning Awards:** Dr Anthony Cronin and the Maths Support Centre Tutor Team, School of Mathematics and Statistics; Assistant Professor Brett Becker, School of Computer Science; Assistant Professor John Sheekey, School of Mathematics and Statistics; Associate Professor John Quinn, School of Physics; and Assistant Professor Andrew Phillips, School of Chemistry.
- **Two college level awardees went on to receive University level awards;** Associate Professor Emma Sokell and the Maths Support Centre tutor team.

## Learning through Research Seed Funding Scheme

The College was successful in securing a number of Learning through Research Seed Funding awards to support curriculum enhancements in embedding research in the undergraduate curriculum. Awards were made to four Science teams lead by Professor Geraldine Butler, School of Biomolecular and Biomedical Science for Identification of novel yeasts from the Irish environment; Associate Professor Michael Casey, School of Chemistry for Development of Enquiry-Based Labs in Chemistry; Associate Professor Thomas McCormack, School of Physics for Embedding research in the 3rd and 4th year undergraduate physics laboratory; Associate Professor Tom Wilkinson, School of Biology and Environmental Science for Environmental Biology in the 21st century – preparing the next generation of biodiversity custodians.

The UCD O'Brien Centre for Science was the venue for the annual O'Brien Science Lecture. The lecture was delivered by leading international economist and epidemiologist Prof Ramanan Laxminarayan on the subject of overuse and abuse of antimicrobial medicines in human and animal healthcare and how this has become a threat to global public health. Pictured at the lecture are (l-r) Denis O'Brien, Dr Jennifer Westrup, Beacon Hospital, Prof Ramanan Laxminarayan, Prof Andrew Deeks, UCD President and Prof Joe Carthy.

## Research and Impact

I am delighted that the College is at the forefront of technology development. A team of Irish-based researchers, which includes members of UCD School of Physics, has been given the go-ahead by the European Space Agency to develop Ireland's first satellite. This satellite, which will have the shape of a cube and the size of a small shoebox, will be built by students at UCD and Queen's University Belfast. The students will be assisted by academics, five Irish companies and the European Space Agency. The satellite will orbit Earth, gathering data for approximately twelve months and will be managed and controlled from a ground station in the UCD School of Physics.

During 2016/17 College of Science academics continued to attract major research funding. Several of these projects are aligned with interdisciplinary collaborations and UCD Research Institutes. These projects include:

CONSUS, Crop Optimisation through Sensing, Understanding and Visualisation which was awarded €9,337,055 from SFI for a Strategic Partnership with Origin Enterprises plc. This is a cross-disciplinary collaboration with academics drawn from the College of Science, the College of Health and Agricultural Sciences and the College of Engineering and Architecture. The principal investigators are Professors Gregory O'Hare, UCD School of Computer Science, James Burke, UCD School of Agriculture and Food Science, Nicholas Holden, UCD School of Biosystems and Food Engineering, Tahar Kechadi, UCD School of Computer Science, Kevin McDonnell, UCD School of Biosystems and Food Engineering and Fiona Doohan, UCD School of Biology and Environmental Science.

Pictured are TEDxUCD speakers, John Sloan, an MSc student in Computational Linguistics at UCD's School of Computer Science and Dearbhla Burke, a chartered physiotherapist and a PhD student at the UCD School of Public Health, Physiotherapy and Sports Science.



**Vice-Principal International**

Professor Jeremy Simpson

**Vice-Principal for Research and Innovation**

Professor Fiona Doohan

**Vice-Principal for Teaching and Learning**

Assoc Professor Carmel Hensey

**Director of Graduate School**

Assoc Professor Emma Sokell

**The College of Science consists of seven schools**

**UCD School of Biology and Environmental Science**

Head of School

Professor Jeremy Simpson

**UCD School of Biomolecular and Biomedical Science**

Head of School

Professor Wim Meijer

**UCD School of Chemistry**

Head of School

Professor Gareth Redmond

**UCD School of Computer Science**

Head of School

Professor Pádraig Cunningham

**UCD School of Earth Sciences**

Head of School

Professor Frank McDermott

**UCD School of Mathematics and Statistics**

Head of School

Professor Gary McGuire

**UCD School of Physics**

Head of School

Professor Martin Grunewald

As of September 2016

ECOSTRUCTURES which was awarded €1,174,380 from the EC – European Regional Development Fund. Ecostructures looks at climate change adaptation through ecologically sensitive coastal infrastructure. It involves collaboration between the College of Science and the College of Engineering and Architecture via the UCD Earth Institute research platform. The project is led by Associate Professor Tasman Crowe, UCD School of Biology and Environmental Science, and the team includes Drs Jens Carlsson, UCD School of Biology and Environmental Science, Ciaran McNally, UCD School of Civil Engineering and John O’Sullivan, UCD School of Civil Engineering.

ACCLIMATIZE which was awarded €3,130,114 from the European Regional Development Fund to combat the effects of pollution on bathing waters in Ireland and Wales. The project, led by a UCD team, is in partnership with Aberystwyth University. Professor Wim Meijer, UCD School of Biomolecular and Biomedical Science is the project co-ordinator. Other UCD academics involved are Dr John O’Sullivan, UCD School of Civil Engineering and Professor Gregory O’Hare, UCD School of Computer Science.

In addition to several environmental projects, a number of initiatives in the health space received major funding as well. For example, Professor Ken Dawson, UCD School of Chemistry attracted €1,656,625 from the EC – European Regional Development Fund for a project entitled ‘Celtic Advanced Life Science Innovation Network’, CALIN.

In February 2017 the UCD spin-out OncoMark, which was co-founded by Professor Liam Gallagher, UCD School of Biomolecular and Biomedical Science and Director of the UCD Conway Institute secured a €2.1 million investment to commercialise a new diagnostic test for breast cancer. The test aims to prevent early stage breast cancer patients’ exposure to ineffective treatment and needless toxicity.

Three faculty were among the first awardees of the UCD Wellcome Institutional Strategic Support Fund Mid-Career Stimulus and Diversification Scheme. This scheme, worth €2.2 million over five years, aims to drive key research initiatives in Personalised and Translational Medicine and One Health. Associate Professor Orina Belton, UCD School of Biomolecular and Biomedical Science and UCD Conway Institute was supported for research in the development of optimum therapeutic strategies for the treatment of diabetes and cardiovascular disease; Professor

Emma Teeling, UCD School of Biology and Environmental Science and UCD Conway Institute was supported for research on utilising the bat as an animal model to elucidate the mechanisms of longer health spans, and the basis of novel immunity for disease tolerance. Associate Professor Margaret McGee, UCD School of Biomolecular and Biomedical Science and UCD Conway Institute was supported for research on the characterisation of extracellular cyclophilins during cancer growth and metastasis.

Another interdisciplinary collaboration between three UCD Colleges: Science; Health and Agricultural Sciences and Social Science and Law secured a €1,191,744 award from the European Commission, H2020 for a project entitled ‘Technology Enabled Adolescent Mental Health’, TEAM. Dr David Coyle, UCD School of Computer Science, Associate Professor Gary O’Reilly, UCD School of Psychology and Professor Brian Caulfield, UCD School of Public Health, Physiotherapy and Sports Science are the project’s lead academics.

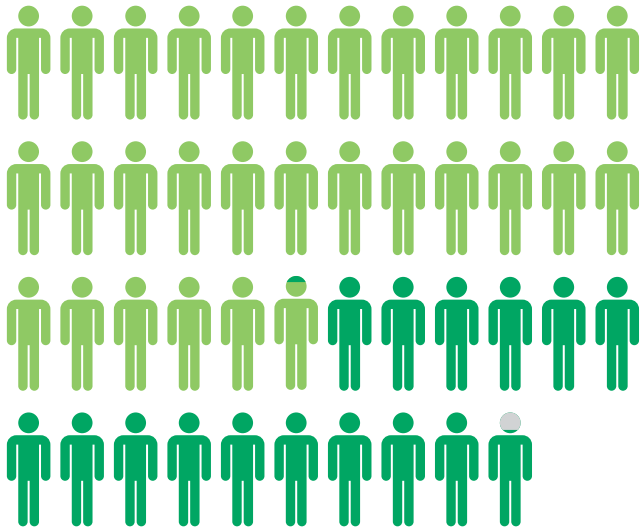
I am delighted to note that during this academic year the achievements of a number of our academics were publicly recognised through awards and membership in learned societies: Professor Jennifer McElwain, UCD School of Biology and Environmental Science was recognised by the Royal Irish Academy for her major contributions to our understanding of the relationships between plants and their changing environment in the geological past; Professor Emma Teeling, UCD School of Biology and Environmental Science, whose research uses bats as a model to uncover the biological basis of healthy ageing, was invested as a Chevalier des Palmes Académiques/Knight of the Order of Academic Palms; and Professor John Walsh, UCD School of Earth Sciences received the prestigious William Smith Medal from the Geological Society of London. Enterprise Ireland selected Professor Fiona Doohan, UCD School of Biology and Environmental Science for an Outstanding Achievement Award for Leadership in H2020. Two faculty were recipients of Irish Fulbright Awards: Dr Aggeliki Georgiopolou, UCD School of Earth Sciences and Dr David Lillis, UCD School of Computer Science.



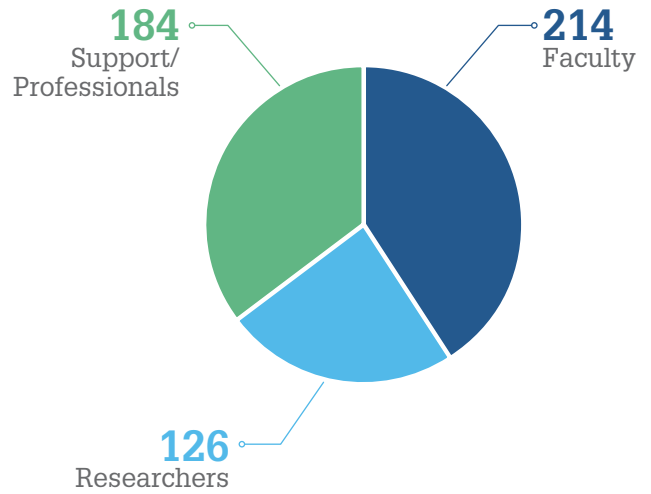
**Professor Joe Carthy**  
College of Principal



**4,588** Total students in Ireland




**523** Total staff (FTE)




**2,994** Undergraduate students (FTE)

**1,593** Graduate students (FTE)

**€29.63m** Research awards 

**590** Total students overseas (Undergraduate FTE)



 = 100 people (approx.)

*Climate Simulator*, Phase 1, a single channel film shared as an open source artwork – the College of Science Artist in Residence Méadhbh O'Connor was selected to exhibit at the Antarctic Pavilion at the 57th Venice Biennale of Art.





Professor Jeffrey Sachs, Columbia University, one of the world's leading experts on economic development, global macroeconomics, and the fight against poverty with the Ulysses Medal presented to him by UCD.



**Professor Colin Scott**  
College Principal

**Dean of Social Sciences**

Dr Sara O'Sullivan

**Vice-Principal for Research,  
Innovation and Impact**

Professor Alun Jones

**Vice-Principal for Teaching  
and Learning**

Dr Eilis Hennessy

**Vice-Principal for Global  
Engagement**

Dr Richard Collins

# College of Social Sciences and Law

UCD is the largest centre in Ireland for research and education in the social sciences and related disciplines. The College of Social Sciences and Law supports its eleven schools in achieving their ambitious objectives to promote the flourishing of society in Ireland and globally through education, research and engagement.

Our Schools received outstanding international recognition when the authoritative QS World University Rankings listed UCD as number one in Ireland across virtually all our fields and among the top 100 in the world for Archaeology, Development Studies, Geography, Law, Philosophy and Politics and just outside the top 100 at 111 in the world for Social Sciences.

One of the greatest rewards of being College Principal is to work closely with Heads of School, College office-holders and colleagues to achieve our objectives. At UCD we recognise that the Head of School role is among the most important and challenging leadership roles in the University and we are blessed to have

such a fine group of committed and talented leaders.

## New Programmes

Education in the Social Sciences and Law at UCD is diverse, delivered through three major programme areas in Arts, Humanities and Social Sciences, Law and Social Science and with a large number of taught graduate degrees offered by the eleven Schools and the College. This year has seen the introduction of a number of new programmes, including Law with Irish at undergraduate level, and graduate programmes in Geographies of the Global South, European

Governance (two-year programme offered jointly with the University of Utrecht), and Professional Regulation (professional diploma). The College's large and growing cohort of PhD students is a key element of both our educational and research activity. Under the leadership of Vice-Principal and Graduate School Director, Professor Enda Murphy, comprehensive new guidelines on doctoral research were completed during the year to sustain the highest quality experience for research students in structured PhDs.

A major focus of the year's work has been the design of a new undergraduate Social Sciences Programme which received University Programme Board approval during the year. This new four-year programme, which admits its first students in September 2018, will be the largest programme in the University with plans for more than five hundred entrants. The new programme emphasises subject knowledge across ten major subjects and in four interdisciplinary fields, alongside enhanced opportunities to develop intercultural competence through overseas study, to develop communication, team-working and leadership skills through internship and other professional and practice activities, and with time for more advanced research activities. The new programme will complement existing and continuing single-major programmes in Economics and Psychology and the Joint Major BSocSc in Social Policy and Sociology. We in the College are indebted to the leadership of Dean of Social Science, Associate Professor Sara O'Sullivan and her team in the College and in the Schools, working across a number of groups, which have developed these plans that will enrich opportunities for social sciences education in Ireland.

The College has continued to strengthen its interdisciplinary modules and programmes and offered one of only two new pilot Discovery Modules delivered by the University: 'Global Development Goals' led by the School of Politics and International Relations.

There is great depth in the quality of teaching and learning in the College, the development of which is supported by teaching and learning directors in each school, co-ordinated through a College

Below left: Catherine Day, former European Commission Secretary General who gave the Annual Garrett FitzGerald Lecture 2017 on the topic 'Where to After Brexit/Trump? Navigating an Uncertain Future'.



committee led by Vice-Principal for Teaching and Learning, Dr Ellis Hennessy. The College continues to encourage the professional development of faculty in their teaching roles. A new University Teaching and Learning Awards Scheme saw thirteen College awards and five University awards given to members of the College recognising commitment, innovation and achievement in fostering learning.

## Global Engagement

UCD's strong international reputation in the social sciences has significantly enhanced our attractiveness as a destination for overseas students who come to us for undergraduate programmes, on a semester or year exchange or junior year abroad and for taught masters and research degrees. Global engagement in the College is led by Vice-Principal Richard Collins who both chairs the College committee and contributes to University policy and actions in a number of ways. The President of UCD, Professor Andrew Deeks, attended a meeting to mark the recognition of law degrees at UCD by the Bar Council of India which is an indicator of the very high standing of legal education at UCD and a platform for wider recognition of our College's educational offerings in India.

## Research

The College has long been at the forefront of research and education in the behavioural sciences through the activities of the Schools of Economics and Psychology. We took a major step towards further development in those fields with the appointment of Professor Liam Delaney as AIB Professor of Behavioural Economics. Professor Delaney has rapidly established a group of researchers working closely with UCD Geary Institute for Public Policy and I acknowledge the great contribution of AIB plc, UCD School of Economics, UCD Geary Institute of Public Policy and UCD Research in bringing this project to fruition. In addition to establishing a behavioural economics laboratory, Liam is

Below right: Mr Manan Kumar Mishra, Senior Advocate and Chairman of the Bar Council of India and UCD President Professor Andrew J Deeks who co-signed a Letter of Intent that formally acknowledges the accreditation of the UCD Sutherland School of Law undergraduate law programmes by the Bar Council of India.



**Director of Graduate School and Vice-Principal for Graduate Studies**

Dr Enda Murphy

**UCD College of Social Sciences and Law consists of 11 schools**

**UCD School of Archaeology**

Head of School  
Associate Professor Graeme Warren

**UCD School of Economics**

Head of School  
Professor Karl Whelan

**UCD School of Education**

Head of School  
Professor Dympna Devine

**UCD School of Geography**

Head of School  
Associate Professor Gerald Mills

**UCD School of Information and Communication Studies**

Head of School  
Professor Kalpana Shankar

**UCD School of Law**

Head of School  
Professor Joseph McMahon

**UCD School of Philosophy**

Head of School  
Professor James O'Shea

**UCD School of Politics and International Relations**

Head of School  
Professor David Farrell

**UCD School of Psychology**

Head of School  
Professor Alan Carr

**UCD School of Social Policy, Social Work and Social Justice**

Head of School  
Associate Professor Michelle Norris

**UCD School of Sociology**

Head of School  
Associate Professor Diane Payne

As of September 2016

Right: Linda Senden, Utrecht University School of Law; Colin Scott, UCD College of Social Sciences and Law; Annetje Ottow, Utrecht University Faculty of Law, Economics and Governance; Sebastiaan Princen, Utrecht University School of Governance. UCD and Utrecht University's collaboration includes a new joint two-year double-masters in European Governance exploring pressing concerns facing Europe today.

Far right: Professor Aidan O'Sullivan, UCD School of Archaeology, was elected as a member of the Royal Irish Academy as a leading researcher on the archaeology of early medieval Ireland. Professor O'Sullivan is Director of UCD Centre for Experimental Archaeology and Material Culture, one of the only specifically designed and dedicated on-campus university facilities in the world for experimental archaeology and material culture studies.

also leading on the development of an innovative and interdisciplinary Masters programme in the field, which is of increasing importance to social and public policy across a number of different fields.

The establishment of a dual Masters degree in European Governance with colleagues in Utrecht University in the Netherlands has provided a platform for enlarged co-operation around research. We were delighted to host a joint research meeting at UCD with the Dean of the Faculty of Law, Economics and Governance and colleagues from Utrecht University exploring potential for collaboration across such fields as migration, human rights and experimental and behavioural social sciences and look forward to further deepening engagement.

Research takes time and costs money and I am very proud of the ingenuity and commitment that colleagues in the College bring to securing external funding for their research, which saw an increase in value of nearly 25% in 2016/17 over the previous year. This funding is also a major contributor to training the next generation of researchers through PhD and postdoctoral training. It was pleasing to see growth of nearly 20% in grants awarded, with major funders including the Irish Research Council, the European Commission, Concern Worldwide, The Geological Survey of Ireland, the Fulbright Commission, the Research Council of Norway, the Health Research Board, and the Irish Prison Service. The College's representation among Irish Research Council awards for doctoral study and postdoctoral research is particularly strong.

**Engagement**

It is vital for researchers in the social sciences and cognate disciplines to engage with the worlds of policy and practice and with organisations in the public, industry and NGO sectors. A key date in our calendar is the UCD Garret FitzGerald School and lecture. This year's event featured presentations from four different disciplines (Economics, Law, Politics and Sociology) on the challenges associated with Brexit and the Trump

administration. The seminar was followed by a lecture delivered by UCD alumna, Catherine Day, former Secretary General of the European Commission on the same theme.

Vice-Principal for Research, Innovation and Impact in the College, Professor Alun Jones, has taken a particular lead in developing University capacity to demonstrate impact through the production of case studies. During the year the College produced a publication 'Towards the Good Society' highlighting one research story from each school. Professor Patrick Paul Walsh, UCD School of Politics and International Relations, was invited to address the United Nations Assembly on themes related to research and education for the UN Sustainable Development Goals. This underlies the College's particular and growing expertise in the interdisciplinary field of Development Studies.

The College's Artist in Residence Programme continues to thrive under the leadership of Dr Alice Feldman, UCD School of Sociology, and Emer O'Boyle, Parity Studios. We welcomed new artist Sarah Browne, who is engaging with themes of law, equality and justice with researchers from across the College.

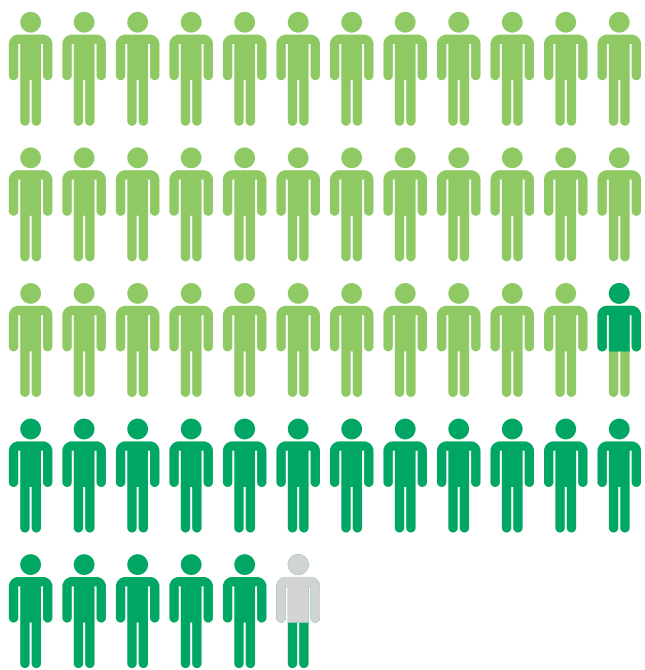
A key part of the College's impact is through its alumni and we were delighted to recognise at the annual UCD Alumni Awards the contribution of Aideen Hayden, a recent PhD Graduate of the School of Social Policy, Social Work and Social Justice and Ben Cleary, a Business and Law graduate who recently won an Oscar for his short film, *Stutterer*. We take great pleasure in engaging with our alumni, at reunion events held for gold and ruby jubilee alumni across Social Sciences and Law, at Law alumni events each year, and through the alumni mentoring scheme, which has benefitted from the contribution of archaeology and politics alumni working with current students.



**Professor Colin Scott  
College Principal**



**5,341** Total students in Ireland



**148** Total students overseas (Undergraduate FTE)

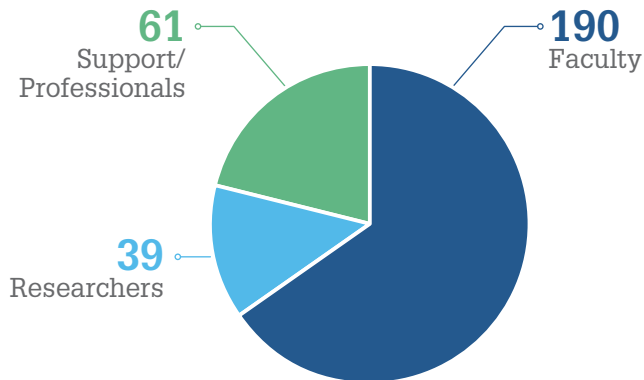


**3,542**  
Undergraduate students (FTE)

**1,799**  
Graduate students (FTE)

 = 100 people (approx.)

**289** Total staff (FTE)



**€6.55m**   
Research awards



Above: The Strictly UCD dancers raised €24,000 for their charity partners. Pictured are some of the dancers with (l-r front row) Prof Colin Scott, Vice-President for EDI; Meadh MacCarthy, Self Help Africa; Prof Joe Carthy, Principal UCD College of Science and Emily Lyons, UCD Volunteers Overseas.

# Equality, Diversity and Inclusion

As a University we recognise both the challenges and opportunities associated with equality, diversity and inclusion (EDI).



**Professor Colin Scott**  
**Vice-President for Equality, Diversity and Inclusion**

Our challenges include the need to remove barriers to equality which exist for members of our community of employees and students. Even where organisations are able to eliminate direct and deliberate discrimination linked to characteristics which are irrelevant to the ability to study or to do the job effectively, the culture and practices of large organisations may, nevertheless, create barriers to equality of treatment and opportunity. UCD's growing diversity is a huge asset to a university which is committed to advancing knowledge, to fostering learning and to engaging its capacities as fully as possible with society in Dublin, nationally and internationally. The promotion of equality and the celebration of diversity requires the

University to constantly review and renew its commitment to creating an inclusive campus environment in which all can flourish and meet their potential.

During the course of the past year UCD has taken many steps towards mainstreaming the sense of inclusion on our campus. These measures include the implementation of Equality Impact Assessments, which requires that all central policies coming to the University Management Team (UMT) have been evaluated to ensure that as far as possible none of the ten protected classes under the University equality grounds are disadvantaged by new policies. Progressively we wish to go beyond

**// UCD's growing diversity is a huge asset to a university which is committed to advancing knowledge, to fostering learning and to engaging its capacities as fully as possible with society in Dublin, nationally and internationally //**

this so as to be able to demonstrate that all new policies positively contribute towards equality, diversity and inclusion. A number of new and revised policies adopted during the year directly enhance our capacity for addressing our challenges. A revised Dignity and Respect Policy and Procedures emphasises the positive steps the University is taking to ensuring that no-one on campus should have to face bullying, harassment or sexual harassment. A new Gender Identity Policy and Procedure commits the University to practical measures to foster a sense of inclusion. New policies on core hours and gender representation on decision-making bodies are already underpinning significant changes in practice and culture in central aspects of the University's business. In addition, we have supported many events and seminars each of which, in different ways, has supported learning and/or a sense of inclusion.

All members of our University community have responsibilities to promote the achievement of objectives and the implementation of actions to promote equality, to celebrate diversity and to foster a sense of inclusion. The University Management Team Equality Diversity and Inclusion Group and its sub-groups take a lead across a number of key areas including communication and events; data;

disability; ethnic diversity; gender equality; LGBTI; and widening participation of under-represented students. The Widening Participation Committee, chaired by Professor Grace Mulcahy, working closely with UCD Access and Lifelong Learning under the leadership of Dr Anna Kelly, continues to develop its focus and achievements in recruiting and supporting students from under-represented groups, with nearly 30% of UCD undergraduates from under-represented groups (lower socio-economic groups, students with a disability, mature students – see Table 1).'

**// All members of our University community have responsibilities to promote the achievement of objectives and the implementation of actions to promote equality, to celebrate diversity and to foster a sense of inclusion //**

**Table 1: Participation of Under-Represented Groups in Undergraduate Education at UCD (% by College)**

March 1st of academic year	2013/14	2014/15	2015/16	2016/17
UCD College of Arts and Humanities	33%	35%	31%	30%
UCD College of Business	26%	26%	30%	29%
UCD College of Engineering and Architecture	18%	17%	19%	17%
UCD College of Health and Agricultural Sciences	24%	24%	27%	28%
UCD College of Science	24%	28%	27%	29%
UCD College of Social Sciences and Law	31%	34%	35%	28%
VP Global Engagement				
<b>Total</b>	<b>26.8%</b>	<b>27.9%</b>	<b>28.5%</b>	<b>29.1%</b>

**Table 2: Faculty Promotions Statistics September 2016 – August 2017**

Promotion to	Applied				Promoted				Cascade Model Targets 2016/17*
	Female	Male	Total	% Female	Female	Male	Total	% Female	
Associate Professor	22	22	24	50%	18	14	32	56%	50.32%
Professor	7	16	23	30%	7	9	16	44%	37.25%
Full Professor	4	6	10	40%	3	6	9	33%	29.63%
<b>Total</b>	<b>33</b>	<b>44</b>	<b>77</b>	<b>43%</b>	<b>28</b>	<b>29</b>	<b>57</b>	<b>49%</b>	

\*Targets are set based on Cascade model i.e. percentage of eligible female candidates for promotion to each grade as at 31 August 2016.

The attainment of the Athena SWAN Bronze Award by UCD in March 2017 provided recognition of the University's understanding of, and plans for, gender equality. It is also testament to the commitment and engagement of what is now the Gender Equality Action Group led by Vice-President for Research, Impact and Innovation, Professor Orla Feely.

The pursuit of our EDI agenda across the University is underpinned by the skill and commitment of the University Equality, Diversity and Inclusion Manager, Marcellina Fogarty, whose unit is part of Culture and Engagement, UCD Human Resources, led by Rory Carey, both of whom have contributed immensely to the drive and delivery of our objectives. In addition many others participate on the EDI Group or its working groups and I express my sincere thanks for their dedication and commitment.

It is very rewarding to have the opportunity to chair the UMT Equality Diversity and Inclusion Group. I was very happy for this role to be designated as Vice-President for Equality, Diversity and Inclusion in February 2017, as this raises the profile and expectations of EDI activities on campus and the capacity for external engagement with government and public agencies, with industry and NGOs and internationally to ensure that equality, diversity and inclusion has the highest priority. It also reflects the fullest possible support from the President, UMT and more widely in the University, which is so essential to developing and achieving our University goals.



**Professor Colin Scott**  
Vice-President for Equality, Diversity and Inclusion

UCD President Professor Andrew Deeks presenting a copy of UCD's Annual Report on Equality, Diversity and Inclusion to Taoiseach Leo Varadkar TD (then Minister for Social protection).



## Policy Development

### Gender Identity and Expression

The Gender Identity and Expression Policy was developed to support all members of the University community to excel irrespective of gender identity, and to respect and recognise diverse gender identities and gender expression. A Gender Identity and Expression Working Group consisting of stakeholders from across UCD drafted the policy following intensive research and consultation with the employee and student populations, and with expert organisations in this area such as TENI (Transgender Equality Network Ireland). The implementation of this policy will be visible in many ways including signage both inside and outside bathroom facilities across the University, Gender Identity and Expression training and changes in documentation to ensure inclusivity for all. This policy will be launched in Autumn 2017 to celebrate its development and promote awareness.

### Paternity Leave

The Paternity Leave Policy was developed following the introduction of the Paternity Leave and Benefit Act 2016. This legislation expanded on the current supports already in place in the University for carers, enabling employees to take time off from work around the birth or adoption of their child, or the child of their spouse or partner. This leave forms part of a suite of family friendly initiatives available in UCD, and supports a more equitable sharing of parental caring duties. As part of the commitment to equality, diversity and inclusion, state paternity benefits are topped up to full salary where eligible.

### Gender Balance on Committees

The Gender Balance on Committees policy which was introduced under the Gender Equality Action Plan requires all committees to meet the target of 40% of the under-represented gender. UCD is committed to creating an environment whereby all members of the community have equal opportunity to contribute to and inform institutional decision-making. The establishment of gender balance targets ensures that decisions are informed by the broadest possible range of expertise and input.

### Core Meeting Hours

The Core Meeting Hours policy was also established as part of the Athena SWAN Gender Equality Action Plan and requires meetings to be held between the hours of 9.30am and 4pm. Meetings include all University, College and School level meetings, seminars, workshops etc. which faculty and staff are either required or invited to attend. This policy forms part of a range of actions intended to support a family-friendly working environment, and through enabling participation, will enhance a sense of community and shared endeavour.

### Dignity and Respect

This policy was developed to support a culture of dignity and respect and enhance the processes and supports in place to assist with an issue if it does arise.





Smurfit Business School restaurant and break-out spaces.



**Gerry O'Brien**  
Bursar

# Finance and Capital Development

The 2016/17 year saw the continuation of the progress achieved by the University in recent years, with a surplus of €0.55 million generated on its HEA core-funded activities, despite a number of financial challenges that remain on the horizon, most notably the uncertainties around government recurrent funding.

## State Funding/Report of Expert Group on Future Funding of Higher Education

The biggest financial challenge facing the University continues to be underfunding of the sector, with the consequent pressure on sustainability of operations and on infrastructure as student numbers increase. Between 2007/08 and 2015, higher education suffered successive reductions

in state funding despite increased demand. Nevertheless, UCD managed to continue progress towards meeting its strategic objectives and to remain within budget during that period, albeit at the expense of student: staff ratios, student support services and campus infrastructure.

The recurrent grant reductions, which had been a feature of the system since 2008, were halted in 2016, and in 2017, for the first time since the economic crisis, additional funding, totalling €33 million, was awarded to the higher education sector. However, the bulk of this funding was earmarked for designated purposes, and the IUA estimates that the university sector has been funded for only circa 50% of the cost of awards under the Lansdowne Road Agreement in 2017. Concerns about long-term financial sustainability remain and the need for ongoing infrastructural investment must be addressed urgently.

**// Concerns about long-term financial sustainability remain and the need for ongoing infrastructural investment must be addressed urgently //**

## // Ireland needs to substantially increase the level of investment in higher education to ensure that the system can deliver fully on its role in supporting national economic and social development //

A continued lack of timely and multi-annual information in relation to state funding adversely affects the University's ability to formulate annual budgets and multi-annual plans, although since state grant income as a proportion of total university funding continues to decrease, the overall impact of this uncertainty on forecasting has diminished over the last few years.

The Report of the Expert Group on Future Funding for Higher Education was published in July 2016. Its central recommendation was that Ireland needs to substantially increase the level of investment in higher education to ensure that the system can deliver fully on its role in supporting national economic and social development. The report identifies three potential funding options; i.e. a predominantly state-funded system; increased state funding with continuing student fees; or increased state funding with deferred fee payment through income-contingent loans.

The Expert Group estimated that the higher education sector needs additional annual funding of €600 million by 2021 and €1 billion by 2030 to deliver higher quality outcomes and provide for increased student demographics. This would enable an improvement in student:staff ratios, better engagement with students and improved support services for faculty and students. The Group also called for

Smurfit Business School lounge and restaurant.



an urgent review of the capital building programme and estimated that capital investment of €5.5 billion was needed over the next 15 years to adequately cater for increased student numbers, capital upgrades, health and safety issues, equipment renewal and ongoing maintenance. It further recommended an additional €100 million per annum to deliver a more effective system of student financial aid.

Following publication of the report, there has been broad acceptance of the need for additional sectoral funding, with much debate about the relative merits of the options proposed, but no decision has yet been made regarding the source of this funding.

The 2018 Exchequer Budget provides very little in additional funding for the university sector but it does confirm that the era of cuts is over. The provision of an additional €17 million to the higher education sector to cater for demographic student number increases is welcome. Also, provision appears to have been made for the increased expenditure due under the Lansdowne Road Agreement for the restoration of pay levels, although it is unclear at this stage whether the full additional costs will be covered.

## Review of Allocation Model for Funding Higher Education Institutions

After years of underinvestment and rising student numbers, the Government will carry out a review of the quality of the third level education system. The review comes as universities await the decision on a new funding model for the sector, following demands from faculty, staff and students alike who have voiced their concerns in recent years about the dramatic decline in state funding to third-level institutions and the funding model for the Irish universities is gradually being addressed by the Government.

The HEA has taken the findings of the Expert Group into account in a review of the allocation model for funding higher education institutions and, following a consultation process, expects to launch a new funding model in late 2017. In its submission to the HEA, UCD strongly supported a multi-annual approach to facilitate planning and allow for longer-term certainty, and also recommended that a revised model should include all funds for teaching when applying weightings, to reflect the relative costs of different disciplines and programme levels.

We are optimistic that the revised allocation model will include an adjustment to annual allocations to apply full discipline-based weightings to all teaching income, to UCD's benefit, although implementation is likely to be phased over several years. Nevertheless, adjustments to the allocation model can only be effective if made as part of the required significant increase in funding recommended by the Expert Group.

## School Strategic Planning and Budgeting

Schools and support units updated their five-year plans in 2017 alongside their strategic plans as part of the annual financial planning cycle. However, uncertainty over both the level and the nature of



Proposed improved living spaces as part of the residential masterplan.

state funding continues to be a significant problem for units in preparing their financial plans.

The Bursar's Office is assisting individual Colleges and Schools to develop five-year financial plans which broadly align with the strategic objectives of the University and to provide a multi-annual view of each unit's planned activities and resource requirements. In keeping with a policy of developing decision-making at local level where appropriate, each Head of School now has enhanced financial responsibility within agreed targets. The close collaboration with the academic community will continue in order to develop the future direction of Schools and Colleges on a sustainable basis.

## Incentive Schemes

2016/17 marked the third year of the performance-based budgetary model, whereby additional resources are allocated on a formulaic basis between the School and College generating the additional income and the University. Last year, the model was extended to include EU undergraduate fee income, reflecting the importance of this core activity and ensuring it is resourced equally alongside graduate and non-EU activity. The distribution of additional income to Schools enables them to exert more control over their finances, but is very limited in comparison to the state funding that has been withdrawn in recent years and is in no way a substitute for restoration of adequate funding.

**// The distribution of additional income to Schools enables them to exert more control over their finances, but is very limited in comparison to the state funding that has been withdrawn in recent years and is in no way a substitute //**

Consistent with the UCD Global Engagement Strategy, fee income from international students continues to grow strongly, and fee scholarships are used to mitigate hardship and also as a marketing tool. Schools may retain a proportion of net fee income, after allowing for scholarships and commissions.

The need to implement strategy and measures, particularly surplus income-generating and cost-saving initiatives, is a challenge for the whole University and this is being addressed through the ongoing work of the University's Finance, Remuneration and Asset Management Committee.

## Planning and Budgeting System

The University has recently procured a new Oracle system for planning and budgeting, to improve the efficiency and quality of its annual budget process, to enhance regular forecasting and reporting and to provide a platform for further future improvements in financial and other planning activities.

Key system features will be in place early in the 2017/18 financial year, and we anticipate further enhancements for subsequent annual budget cycles.

## Procurement

The last few years have seen a significant transformation in public sector procurement practices. The Office of Government Procurement was established in 2013 with a view to managing all strategic spend for common purchases by public sector bodies, including the universities. Reform of public procurement is one of the major projects of key strategic importance in the state's public service reform plan.

While the UCD Procurement Office is actively working with the Office of Government Procurement (OGP) to ensure that procurement activities in UCD are aligned with the objectives of the OGP, the UCD Procurement Office continues to run tenders on behalf of the University and provides support and training.

## Finance and Capital Development

There was also a wider implementation during the year of the centralised online purchasing system with trained buyers, the aim of which is to enhance the co-ordination of buyer activity across the University and to maintain a high level of compliance with government procurement policies.

## Increase in Non-State Funding

The University continued to focus on alternative non-exchequer sources of funding during the year to maintain a financially stable and viable position.

This year saw another significant increase in international student recruitment and the work of the Global Engagement Group has led to the establishment of student recruitment centres in different countries, particularly in south-east Asia.

Revenue streams from summer activities on campus continue to grow and 2017 proved to be a strong year for Summer at UCD, the brand used to develop summer activities on campus.

In collaboration with the UCD International Office, Summer at UCD consolidated its position in global educational sectors, this is part due to UCD's strong partnerships with major universities in the USA. In addition, the hosting of high-profile events such as the Women's Rugby World Cup in conjunction with UCD Sport provided an excellent platform to showcase UCD's high standard, residential and sporting facilities.

## Campus Development

The UCD Strategic Campus Development Plan 2016-2021-2026 guides the development of the physical Estates. The plan communicates an ambitious vision to reimagine our campus and encompasses a blend of new construction to support future growth, as well as the extensive refurbishment of older buildings.

Below left: Landscaping completed at the Belgrove Residences.



The proposed developments outlined in the plan have been designed to support the UCD Strategy 2015-2020 and focus on expanding and improving academic facilities, increasing on-campus residences, providing greater social and cultural engagement, as well as promoting knowledge-based, industry-linked research and innovation facilities.

Earlier this year, a submission was made to the Higher Education Authority (HEA) detailing our capital development requirements over the coming years. The submission outlined five priority development areas which comprise of both refurbishment and extension of older buildings as well as new building space in strategic areas.

The five priority areas are as follows:

- UCD Science Centre
- UCD Newman Building
- UCD Engineering and Architecture Precinct
- UCD Health and Agriculture Precinct
- UCD James Joyce Library

These proposed strategic investments are detailed further in the UCD Strategic Campus Development Plan and are subject to the availability of appropriate funding streams.

## Recent and Planned Capital Developments

UCD has plans to grow our on-campus student accommodation by circa 3,000 bed spaces to bring the total number of students living on campus to approximately 6,000. A planning application has been submitted to An Bord Pleanála for the UCD Student Residential Masterplan under the new strategic housing development (SHD) legislation. This comprehensive plan allows for the phased development of the additional bed spaces over a ten year period.

In addition to providing much needed accommodation space, the masterplan will deliver quality public spaces as well as social, recreational, retail, dining and other support facilities. Providing these

Below right: Artist's impression of the proposed refurbishment and extension to Ardmore House.





Work is already underway on an extension to the Lochlann Quinn School of Business.

**// Work has commenced on the extension to the Lochlann Quinn School of Business. This new space will include a 320-person lecture theatre, individual study spaces, small group study areas, group project rooms and larger meeting rooms //**

crucial services along with the highest standards of urban design will help to create a sense of community and will significantly enhance the experience of students living on campus.

Work has commenced on the extension to the Lochlann Quinn School of Business. This new space will include a 320-person lecture theatre, individual study spaces, small group study areas, group project rooms and larger meeting rooms. It will be a leading edge resource and a significant addition to the teaching resources of the UCD College of Business.

Planning permission has been received for the UCD University Club which will be connected to UCD O'Reilly Hall. The University Club will be a valuable addition, providing the highest standards of hospitality and catering for faculty, staff and alumni, it will support the development of relationships with alumni and partners nationally and internationally, while complementing the existing conference and events facilities in UCD O'Reilly Hall.

A design team has been appointed to oversee the next phase of the refurbishment and extension of Ardmore House as part of the Programme for the Preservation of UCD Period Houses. Featuring

a small extension designed to improve accessibility, plans strive to strike a balance between maximising the utilisation of the building while preserving authenticity and the integrity of the heritage and setting. Subject to planning consent, it is expected that works will commence in the coming academic year.

Planning permission has been submitted for an extension to the facilities at Merville House, home to Nova UCD. The East Courtyard development is planned to ensure UCD can meet demand for high-quality incubation facilities, providing 1,100m<sup>2</sup> of flexible office, laboratory and informal meeting areas. The historic wings will be retained and renovated, while the more recent additions will be replaced with a modern building designed to meet specialised requirements.

Preparatory works are underway for the development of the Ulysses Centre in Newman House on St Stephen's Green. The Ulysses Centre is an ambitious €10 million project that sees UCD and the National Library of Ireland collaborating to create a new literary attraction with international appeal.

Work is progressing on the UCD Confucius Institute for Ireland building. When complete, it will provide a unique space for Chinese language and cultural engagement in Ireland, as well as a stimulating architectural intervention at a key location on the Belfield campus.

A new bespoke Executive Development Centre has recently opened in the UCD Smurfit School on the Blackrock Campus. The Executive Development Centre provides a world-class learning environment based on international best practice. The centre assimilates learnings from Top 50 global business schools including Harvard, Oxford Saïd and IESE with which UCD Smurfit School enjoys enduring partnerships, ensuring the very best of every learning environment is integrated into Smurfit Executive Development.

Right: University Club (artist's impression).

Centre: Dublin Bus Real Time Information panels around campus will show you when your bus is due to arrive so you can plan your journey more accurately.

Far right: Secure bike lockers.



**// The woodlands are a valuable resource and amenity space for faculty, staff, students, visitors and the local community. Ongoing biodiversity and tree management programmes seek to enhance and develop the woodlands for future generations //**

Landscaping works to the Belgrove Student Residences were completed in summer 2017. Containing a mixture of hard landscaping, planting and bicycle parking, the works improve the accessibility and aesthetics of the space surrounding these residences. The award-winning UCD Evolution of Land Plants Garden has been relocated to the Science Quad on the Belfield Campus. The project, created by UCD faculty, represents the evolution of plants over the 500 million years since they first appeared on earth. It serves as both an educational experience and an engaging piece of landscaping in a central part of the campus.

## Hospitality and Summer at UCD

UCD continues to be a quality location for conferences, summer schools, sporting competitions and a variety of other social, cultural and sporting events. This summer we welcomed the pool stages of the Women's Rugby World Cup to the Belfield Campus for what was a very successful and enjoyable event.

We are working hard to improve the variety of food options available on campus with a number of new outlets opened in the past year. The weekly Street Food Market has become very popular with students and staff alike. The market has provided an opportunity for indigenous food companies to sell on campus while providing a wider range of food options for the University community. Not only does the market provide additional food offerings, it also creates a valuable outdoor space for socialising and interaction and a welcome dynamism to the southern side of the campus.

As part of our goal to provide more healthy food offering on campus, in collaboration with Aramark Catering, UCD is the first

Irish university to open a 'Chopped' outlet on campus. Furthermore, refurbishments of a number of existing cafés and restaurants has ensured that all food outlets on campus are to a high standard.

## Landscaping and Biodiversity

The woodland setting of the Belfield Campus makes a valuable contribution to the identity of the University and presents a beautiful backdrop to the campus built environment. The woodlands are a valuable resource and amenity space for faculty, staff, students, visitors and the local community. Ongoing biodiversity and tree management programmes seek to enhance and develop the woodlands for future generations and ensure they can continue to be enjoyed by all. A woodland signage programme has been progressed which seeks to highlight specimen trees, areas of high biodiversity value, and other items of interest along the campus woodland walks.

The biodiversity contained within our woodlands was highlighted by UCD winning the 2016 National Intervarsity Bioblitz. The competition, which was run over a 24-hour period on the Belfield Campus resulted in the UCD team identifying more unique biological specimens than any other competing university. This highlights the biological value of our campus and the richness of the eco-systems that exist.

The Bioblitz was run as part of the Green Campus initiative which involves faculty, staff and students working together to improve the environmental sustainability of the campus and to highlight the importance of this area. The Green Campus initiative will continue to run this year, with a number of projects in planning that will involve working collaboratively to implement sustainability-linked projects.

## Commuting

The UCD Travel Plan 2016-2021-2016 was published following engagement with the University community and our partners in Dún Laoghaire Rathdown County Council and the National Transport Authority. Initiatives aimed at facilitating and encouraging sustainable transportation to UCD have been further advanced, including the provisions of additional secure bike parking, locker and changing facilities, the annual Bike Day, the continuation of the Belfield to DART shuttle bus and continued work with the NTA and DLRCoCo



to identify and implement opportunities for improved commuting infrastructure serving UCD.

Planning is underway for a new pedestrian and cyclist entrance to the Belfield Campus. The entrance will be constructed close to Nova UCD on the R138 and will link to the centre of the campus. The entrance will improve safety for cyclists and pedestrians and reduce congestion at the main entrance. UCD was named Ireland's Smarter Travel Campus of the Year in 2016, which recognises the University's efforts to facilitate and promote sustainable transportation.

## Energy


The University is progressing well towards the national energy efficiency targets, which require all public sector organisations to achieve a 33% improvement in energy efficiency by 2020. According to current figures (2016) available from the Sustainable Energy Authority of Ireland (SEAI) we have improved our efficiency by 24.1%. While progress to date has been good, a 9% improvement is required between now and 2020 which will require a collective response from the University community. Over the past year we have delivered a number of projects that will help to keep the momentum going and take us closer to our 33% improvement target.

The largest energy efficiency project delivered in 2017 was a LED lighting upgrade. Over the summer, older less efficient lighting has been replaced with modern high-efficiency LED in the Health Science, Engineering and Materials Science, Computer Science, Daedalus and

James Joyce Library buildings as well as the Blackrock Campus. This extensive project has led to electricity usage reductions of up to 25% in each of the buildings as well as significant financial savings for the University. It is planned to continue the roll-out of LED lighting across the University in 2017/2018, beginning with the Conway Institute building.

A renewable energy project has been delivered on the UCD Lyons Research Farm in Co Kildare. A 100kW solar photovoltaic (PV) system has been installed on the roof of one of the agricultural sheds on the farm. The PV system will produce a significant quantity of the electricity required by the farm annually and will reduce its carbon footprint. Over a year, it is estimated that the system will produce the equivalent electricity usage of approximately 220 Irish households.

**Gerry O'Brien**  
Bursar

**17kWh**   
**Primary energy use/m<sup>2</sup>**  
**A 4% decrease in 2016/2017**  
**compared to 2015/2016**

	2012/13	2013/14	2014/165	2015/16	2016/2017
Total Area m2*	297,565	314,400	314,400	319,706	319,706
Electricity kWh	27,296,800	26,304,456	24,495,179	26,064,323	27,471,804
Gas kWh	70,706,905	70,970,958	66,771,867	61,444,804	54,158,751
<b>Total Primary Energy kWh**</b>	<b>138,212,711</b>	<b>135,385,463</b>	<b>125,207,367</b>	<b>123,966,415</b>	<b>118,639,005</b>
Primary Energy (kWh) per m2	464	431	398	388	371

\*Area excludes residential accommodation

\*\*Primary energy refers to energy in its natural form and is how UCD's energy performance is tracked



Above left: Chinese dragons entertained the crowds at UCD Festival.

Above right: Volunteers partnered with Nurture Africa to facilitate projects at Nansana, Uganda in 2017.



**Dolores O'Riordan**  
**Vice-President for Global Engagement**

# Global Engagement

We have had a very active year since the launch of UCD's Global Engagement Strategy in September 2016 and significant progress has been made in achieving our strategic objectives. In March 2017, Professor Paul Fanning was appointed as Deputy Vice-President for Global Affairs to assist in the delivery of this portfolio.

It was a year when our international student numbers increased further to 7,549, representing over 130 different countries on our Dublin campuses. The excitement in UCD O'Reilly Hall was palpable as new international students gathered at the start of term for a warm welcome from the President, faculty and staff. Throughout the year we held several events to celebrate the cultural diversity of our UCD community. The celebration of Diwali took place in November 2016, with over 400 students participating in the Festival of Light, which included traditional food, music and dance. In January 2017, we celebrated the Chinese New Year with a live streaming of the New Year celebrations from Beijing. At the UCD Festival in June, we welcomed many alumni from abroad and added an international flair to the campus with elements of Japanese culture, including Taiko drumming workshops and martial arts, a traditional Chinese lion dance and dynamic Bollywood dancers.

The UCD Japan group was very active throughout 2017, with the organisation of various cultural events to celebrate the 60th anniversary of diplomatic relations between Ireland and Japan.

In addition to highlighting and celebrating cultural diversity on campus, there was increased focus on developing faculty, staff and student international mobility. UCD has been a long-standing beneficiary of the Erasmus and Erasmus+ programmes, since the launch of the programme 30 years ago. In 2017, UCD was awarded over €250,000 in Erasmus+ funding to support the mobility of 67 students, faculty and staff between Ireland and a range of countries (including Australia, Canada, China, Georgia, Hong Kong, Israel, India, Japan, Kenya, Russia, Rwanda and Vietnam) over the next 24 months. One UCD student received a very prestigious Yenching Academy scholarship to study at the highly-ranked Peking University.

It was another successful year for UCDVO's volunteering and development education programme, 134 UCD students, staff and alumni volunteered in four countries (Uganda, Tanzania, India and Nicaragua) and worked with 13 partner organisations conducting community development, healthcare, education, and refurbishment/ construction activities. Nine UCDVO volunteers received the Global Citizen Award in April 2017.



We held numerous events throughout the year to engage with our alumni overseas, stretching from New York to Shanghai. In line with the UCD vision: *'We will bring the best of the world to Ireland and the best of Ireland, including its distinct cultures, to the world'* we gathered in New York to award the UCD Foundation Day Medal to Colm Tóibín and celebrate the literature and culture that our alumni have given to the world. In Shanghai we highlighted the achievements of our STEM graduate Rory Sexton and gave more recent graduates living in China a great chance to network. In Dubai, both recent and more longstanding alumni gathered and shared their nostalgic memories of UCD prompted by the first showing of the video 'UCD – A Year in Review 2015-2016'.

The units comprising the Global Engagement Portfolio (UCD International, UCD Applied Language Centre, the Irish Institute for Chinese Studies and the UCD Confucius Institute) have each had a productive year.

Dr Douglas Proctor was appointed as the Director of the International Affairs in January 2017. Douglas joined us from the University of Melbourne with extensive experience in international relations and partnerships and an academic background in international education. Under his leadership, the team in **UCD International** has been busy supporting the activities of Schools and Colleges in international student recruitment, student support and building international partnerships. Our network of Global Centres in the USA, China, India and South-East Asia has become further embedded in our activities and plans to open a fifth centre in Dubai are well underway, with a planned opening set for early 2018.

Building international partnerships was a key objective for UCD this year and the appointment of Shauna Hughes as Assistant Director of Global Relations and Partnerships facilitated excellent progress in this area. We have continued to build and deepen our global partnerships. One example was the signing of a letter of intent by our President, Professor Andrew Deeks and the President of South China Agricultural University, Professor Chen Xiaoyang to further explore strategic relationships between the two universities. This signing was witnessed

16 UCD volunteers visited the Sonapur District in north eastern India, their work included refurbishment of five anganwadis (women's and children's health centres), running capacity-building workshops in communities, organising a street play to raise awareness of issues and facilitating English classes.



by Minister Richard Bruton and Governor Hu Chunhua, the secretary of the Guangdong Province who visited UCD as part of an official four-day delegation to Ireland in June.

The **UCD Applied Language Centre** continued to grow and enhance its provision of English language teaching for international students. It also launched structured electives for a suite of global languages to facilitate the opportunities for UCD students to enhance their language proficiency as they progress through their degree programmes.

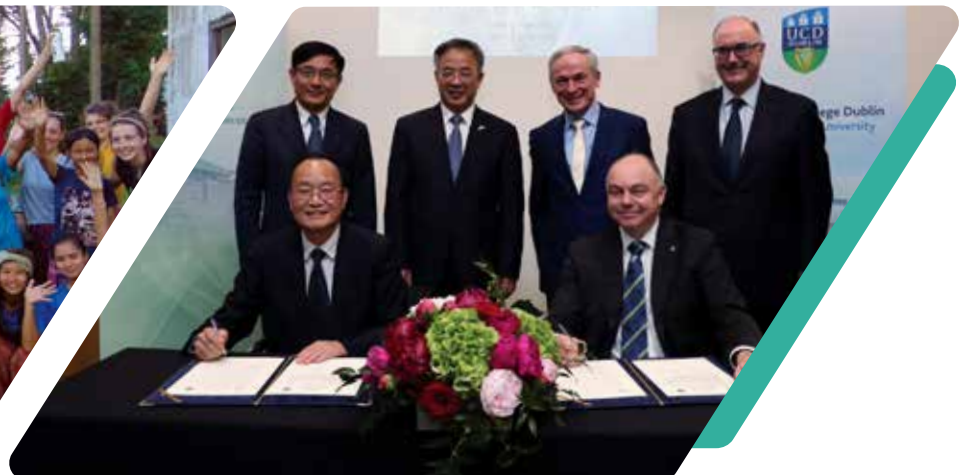
The **UCD Confucius Institute** celebrated its ten-year anniversary with a week-long programme of events in September 2016, which included Chinese calligraphy and painting workshops, a Sino-Irish music concert, public lectures and Chinese food tasting. Once again, a highlight for the year was the gathering of over 2,000 people at a gala event in the Convention Centre, Dublin, to celebrate the Spring Festival on Lantern Day. This event was co-hosted by UCD, the Embassy of the People's Republic of China in Ireland as well as the local Chinese community.

The **Irish Institute for Chinese Studies** continued its efforts to promote the development of Chinese language and culture. The first students enrolled in the newly launched Masters in Teaching Chinese Language and Culture, which is timely with the recent Government announcement that Chinese will be included in the Leaving Certificate curriculum.

Thank you to all faculty, staff and students who have contributed to the many global engagement activities over the past year. I look forward to working with you in 2017-2018.

**Dolores O'Riordan**  
Vice-President for Global Engagement

H.E. Mr HU Chunhua, Minister Richard Bruton, Ambassador Paul Kavanagh and Ambassador YUE Xiaoyong witnessed a signing ceremony between President Deeks, University College Dublin and President Chen, South China Agricultural University.





Above left: Pictured are the winners of Strictly UCD 2017, Odhran Lawlor and Assoc. Prof. Amanda Gibney. The event a collaboration of UCD Equality, Diversity & Inclusion, UCD in the Community and Culture & Engagement – UCD HR, was attended by over 550 community members and raised €24,000 for charity.

Above right: Tristan Aitken, Director of Human Resources, launching the 2017 Aurora Programme.

# Human Resources

As I reported last year, we developed a new UCD Human Resources strategy to 2020 designed to deliver a supportive, developmental environment and culture that is aligned with and underwrites the University’s strategy. Our strategy supports the vision of growing through people and becoming an employer and university of choice. In this report, I outline progress on implementation and what this means for individual community members.



**Tristan Aitken**  
Director of Human Resources

## Impact of HR Strategy 2016-2020 – Growing through people

*Growing through people* is divided into four broad areas and progress was made in the last year across all areas, through either completing projects or laying the foundations for initiatives to be rolled out in subsequent years, see figure 1. Some examples are outlined below under the four strands of our strategy:

- Transforming Service and Partnership
- Enhancing a Performance Culture
- Developing our Talent
- Becoming an Employer and University of Choice

// Critical to our success is the process to deliver a **simpler and more service-orientated offering** in partnership with and serving the University community //

## Transforming Service and Partnership

Critical to our success is the process to deliver a simpler and more service-orientated offering in partnership with and serving the University community. Great progress was made with the following:

- Faster query resolution – preparation for the establishment of a new HR Helpdesk as a single point of contact, launching in November 2017. This involved a process and system review and simplification of how HR Services interacts with the University community.
- Easy to use policies, processes and online systems – progress towards simplification of internal processes using Agile methodologies, focusing on moving routine tasks online (e.g. hourly set-up forms) and providing access when and where it is required (e.g. via InfoHub portal).
- Increased face to face support – review of the process for managers hiring staff, with the

establishment of dedicated Resourcing Consultant roles to support managers locally, rolling out from November, 2017.

## Enhancing a Performance Culture/ Developing our Talent

People are central to the success of the University and continually investing in them by creating a culture of performance and developing their talent at all stages of their career is essential. A number of significant advancements have been made:

- Realising my potential – delivery of a significant Leadership Development Programme for some 90+ leaders across the University, continuation of the Aurora Women in Leadership programme for the fourth year with 21 participants, and development of a People Manager Programme for the approximately 600 people managers in the organisation, to roll out in quarter 4, 2017.
- Regular feedback on my performance – development of the Performance For Growth (P4G) annual review programme and identification of reviewers and reviewees, prior to annual review cycle proposed to commence in quarter 1, 2018
- Clearer career options – significant progress made to categorise 1,000 professional staff into a framework of job families giving greater clarity for career and development planning.
- Excellent on-boarding experience – development of a portal to provide those joining UCD with stage specific information during their first few months.

## Becoming an Employer and University of Choice

The journey to Great Place to Work accreditation and becoming an employer and university of choice is about recognising the great people and culture that makes UCD what it is. Significant steps on this journey include:

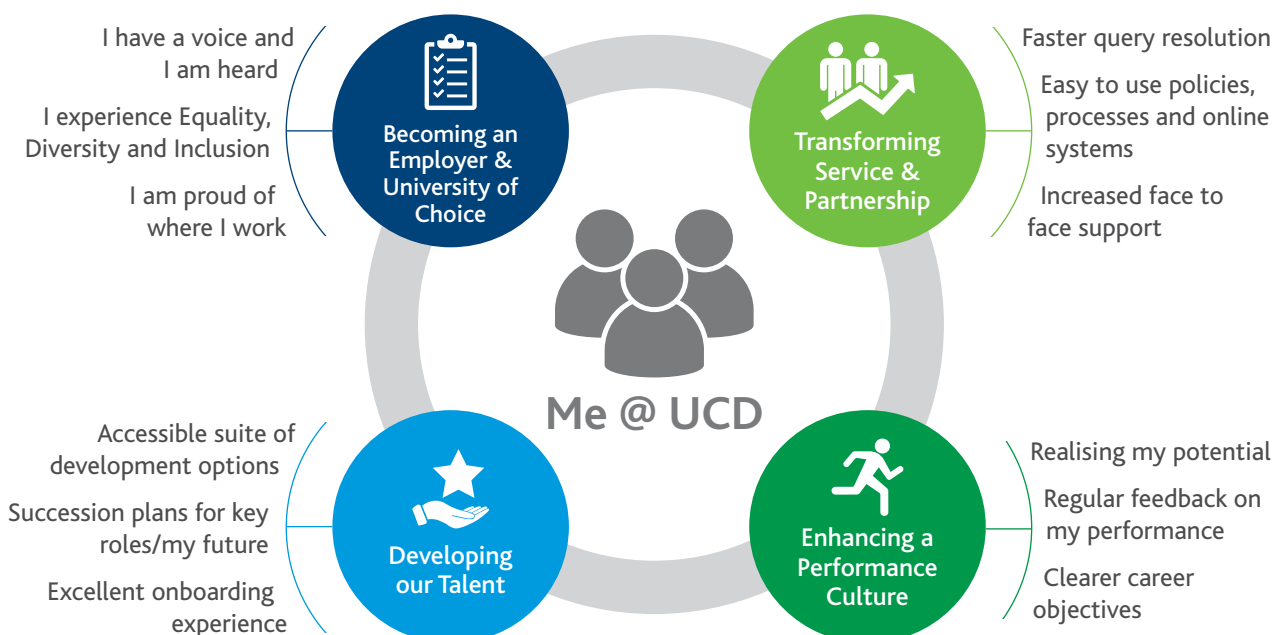
- I have a voice and I am heard – rollout of initial Culture and Engagement Survey with subsequent results cascaded through the organisation and action plans developed to address priority areas identified.
- I experience equality, diversity and inclusion – recognition of work on gender equality through Athena Swan Bronze award, major review of dignity and respect policy nearing completion and numerous other projects supported through the UMT Equality, Diversity and Inclusion group and sub-committees.
- I am proud of where I work – establishment of an Employee Engagement Network and Framework to help drive ground-level activities, support for initiatives such as Healthy UCD and UCD Festival and delivery of successful events such as Strictly UCD.

None of the progress detailed above would have been made without the dedication, hard work and commitment of my team in rolling out these initiatives in support of UCD's wider goals and ambitions.



**Tristan Aitken**  
Director of Human Resources

Figure 1: Impact of HR strategy on individual community members





# University Awards

## Alumni Award Winners



### **HE Anne Anderson**

UCD President Professor Andrew J Deeks and Associate Professor Marie Clarke present HE Anne Anderson (pictured centre) with the 2016 UCD Alumni Award in Arts and Humanities.



### **John Horgan**

UCD President Professor Andrew J Deeks and Professor Alexander Evans present Mr John Horgan (pictured centre) with the 2016 UCD Alumni Award in Agriculture & Veterinary Medicine.



### **Professor Eleanor Maguire**

UCD President Professor Andrew J Deeks and Professor Orla Feely present Professor Eleanor Maguire (pictured centre) with the 2016 UCD Alumni Award in Research, Innovation and Impact.



**Ian Quinn**

UCD President Professor Andrew J Deeks and Professor David FitzPatrick present Mr Ian Quinn (pictured centre) with the 2016 UCD Alumni Award in Engineering and Architecture.



**Dr Aideen Hayden**

UCD President Professor Andrew J Deeks and Associate Professor Sara O’Sullivan present Dr Aideen Hayden (pictured centre) with the 2016 UCD Alumni Award in Social Science.



**Dr Anne Merriman**

UCD President Professor Andrew J Deeks and Dr Patrick Felle present Dr Anne Merriman (pictured centre) with the 2016 UCD Alumni Award in Health Sciences.



**Dr Dennis Jennings**

UCD President Professor Andrew J Deeks and Professor Joe Carthy present Dr Dennis Jennings (pictured centre) with the 2016 UCD Alumni Award in Science.



**Colm O’Rourke**

UCD President Professor Andrew J Deeks and Brian Mullins present Colm O’Rourke (pictured centre) with the 2016 UCD Alumni Award in Sport.



**Benjamin Cleary**

UCD President Professor Andrew J Deeks and Professor Joseph McMahon present Benjamin Cleary (pictured centre) with the 2016 UCD Alumni Award in Law.

## UCD Ulysses and Foundation Day Medal Awards



### **Ulysses Medal: Professor Susan Haack**

Professor Susan Haack in recognition of her outstanding contribution to the arts, in particular, philosophy and law.



### **Ulysses Medal: Dr Lee Hood**

Dr Lee Hood in recognition of his outstanding contributions to science.



### **Ulysses Medal: Professor Jeffrey Sachs**

Professor Jeffrey Sachs for his global contribution to economic development, global macroeconomics and the fight against poverty.



### **Foundation Day Medal: Colm Tóibín**

On Wednesday February 8 2017, the first international presentation of the UCD Foundation Day Medal was made to UCD Arts and Humanities alumnus Colm Tóibín, to honour and celebrate the distinguished career and literary achievements of one of our most outstanding UCD Arts and Humanities graduates.

## Honorary Degrees



**Francis J Bonner**  
Honorary Degree of Doctor of Science, 8 June 2017.  
Outstanding contribution to the mission of the University.



**Harry W Kehoe**  
Honorary Degree of Doctor of Science, 5 September 2016.  
Personal Distinction.



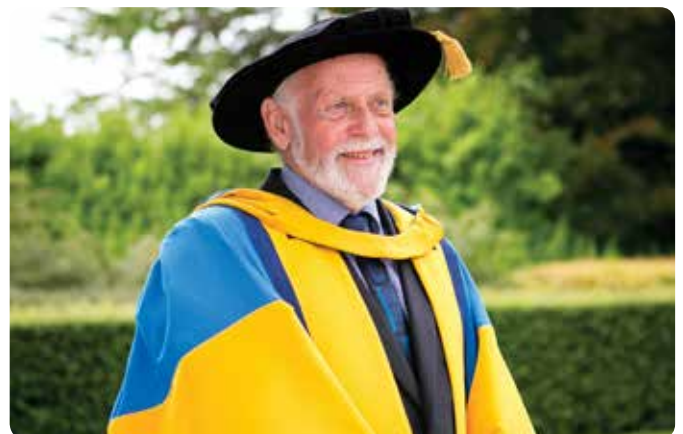
**Michael K Sheridan**  
Honorary Degree Doctor of Science, 19 June 2017. Outstanding professional activity to advance the public good. Significant connection to, and outstanding contribution to, the mission of the University.



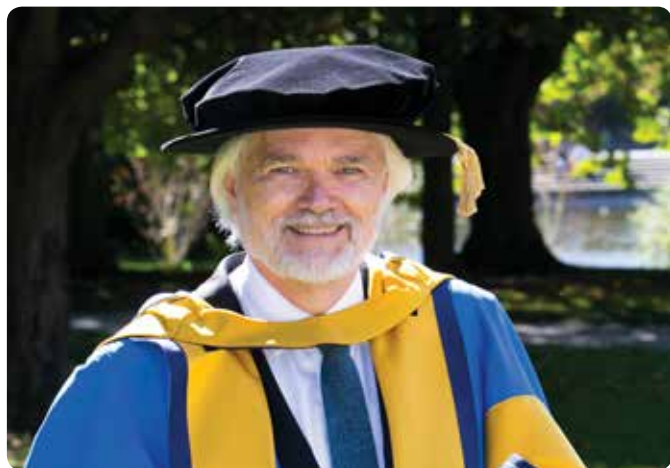
**Emily Logan**  
Honorary Degree of Doctor of Laws, 6 September 2016.  
Distinction in the field of law, human rights and rights of the child.



**Dervilla Mitchell**  
Honorary Degree of Doctor of Science, 5 September 2016.  
Personal distinction in recognition of the candidate's personal achievements.



**Barrington Windsor Cunliffe**  
Honorary Degree of Doctor of Celtic Studies, 7 September 2016.  
Distinction in the field of Archaeology, Classics and History, particularly in relation to the Celtic World.



**Michael Hout**

Honorary Degree of Doctor of Literature, 8 September 2016.  
Distinction in the field of scholarship in sociology and demography.



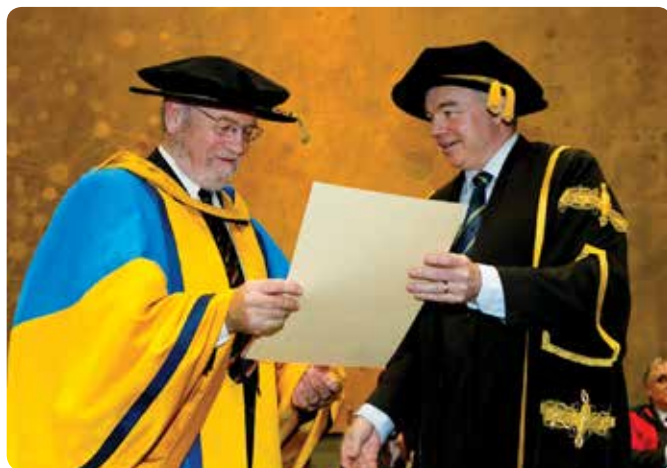
**Kieran Mulvey**

Honorary Degree of Doctor of Laws, 7 December 2016. Professional distinction as the State's leading practitioner in conflict resolution; outstanding leadership and accomplishment in public service.



**Hilary Mantel**

Honorary Degree of Doctor of Literature, 8 September 2016.  
Distinction in literature and her incomparable contribution to the arts.



**Michael J Brennan**

Honorary Degree of Doctor of Laws, 8 December 2016.  
Distinction in Finance.



**Tim O'Connor**

Honorary Degree of Doctor of Literature, 5 December 2016. Personal distinction in his public diplomacy service, his leadership of the Gathering, and as an advisor on the Government's Irish diaspora policy.







# Appointments and Promotions

The table below sets out the academic appointments in the period 1 September 2016 to 31 August 2017 to positions of Professor and Full Professor and includes both new recruits to UCD and UCD staff promoted.

## Appointments

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### Full Professor

**Professor Liam Delaney**  
UCD School of Economics

**Professor Roland Erne**  
UCD School of Business

**Professor Patricia Fitzpatrick**  
UCD School of Public Health,  
Physiotherapy and Sports Science

**Professor Susi Geiger**  
UCD School of Business

**Professor Andreas Hoepner**  
UCD School of Business

**Professor Donncha Kavanagh**  
UCD School of Business

**Professor Anne Keegan**  
UCD School of Business

**Professor Seamas Kelly**  
UCD School of Business

**Professor Michael Peter Kennedy**  
UCD School of Electrical and  
Electronic Engineering

**Professor Thilo Kroll**  
UCD School of Nursing, Midwifery  
and Health Systems

**Professor Cal Muckley**  
UCD School of Business

**Professor Sarah Prescott**  
UCD College of Arts and Humanities

### Professor

**Niall Barron**  
UCD School of Chemical and  
Bioprocess Engineering

**James Kinsella**  
UCD School of Agriculture  
and Food Science

## Promotions

### Full Professor

**Professor Dympna Devine**  
School of Education

**Professor Fiona Doohan**  
School of Biology and  
Environmental Science

**Professor Bryan Fanning**  
School of Social Policy, Social Work  
and Social Justice

**Professor Gary McGuire**  
School of Mathematics and Statistics

**Professor David Madden**  
School of Economics

**Professor Jonathan Paul Malthouse**  
School of Biomolecular and  
Biomedical Science

**Professor Tadhg O’Keeffe**  
School of Archaeology

**Professor Helen Roche**  
School of Public Health, Physiotherapy  
and Population Science

**Professor Ben Tonra**  
School of Politics and International  
Relations

### Professor

**Professor David Browne,**  
School of Mechanical and Materials  
Engineering

**Professor Judith Devlin**  
School of History

**Professor Niall English**  
School of Chemical and Bioprocess  
Engineering

**Professor Judith Harford**  
School of Education

**Professor Eilis Hennessy**  
School of Psychology

**Professor Breandán Kennedy**  
School of Biomolecular and  
Biomedical Science

**Professor Gethin McBean**  
School of Biomolecular and  
Biomedical Science

**Professor Martin McNamara**  
School of Nursing, Midwifery  
and Health Systems

**Professor Donna Marshall**  
School of Business

**Professor Enda Murphy**  
School of Architecture, Planning  
and Environmental Policy

**Professor Michelle Norris**  
School of Social Policy, Social Work  
and Social Justice

**Professor Tadhg Ó hAnnracháin**  
School of History

**Professor Gary O’Reilly**  
School of Psychology

**Professor Louise Rainford**  
School of Medicine

**Professor Olaf Schmidt**  
School of Agriculture and Food Science

**Professor Alexander (Sandy) Wilkinson**  
School of History

**Professor Anding Zhu**  
School of Electrical and Electronic  
Engineering







# Retirements

## Academic Affairs

### Registry

#### David O'Brien

David retired from UCD Registry in September 2017, having started in October 1999 in the Fees & Grants department before moving to the Student Records team. David provided great support, to both staff and students on many fee-related matters and his expertise and good humour were invaluable.

#### Elaine Williams

Elaine took early retirement from Assessment, UCD Registry in August 2017, having worked in UCD for more than thirty years. Over many of these years, Elaine worked in the College of Engineering and Architecture and the Examinations/Assessment office, where she supported the work of Academic Council Committee on Examinations and the examination logistics. Her wit, insight and experience was greatly valued and she will be missed by her colleagues.

### Library

#### Anna Kirk

Anna joined UCD Library in 1995 and retired in June 2016. She worked as a shelver in the James Joyce Library, a role in which her attention to detail was greatly valued by users and colleagues alike.

#### Dympna Knox

Dympna joined UCD Library in 2003 and retired in May 2017. She worked as a Library Assistant in Client Services providing service and guidance to users.

#### Rosalind Pan

Ros joined UCD Library in 2005 and retired in July 2017. During her time in UCD Library she held a number of roles, with her most recent as head of the newly formed Library Outreach Unit, where she guided her team to success. Her insight and her common sense were valued by all her colleagues.

## Buildings and Services

#### Martin Flynn

Martin worked as a general operative providing janitorial services on the campus for many years. He was a keen footballer and in his early years often played for the maintenance department in challenge matches against student teams. Martin retired from Estate Services in February 2017.

## College of Arts and Humanities

### Mary Finucane

Mary was a key member of the College of Arts and Humanities office team from its establishment in 2005, joining from the former Faculty of Arts Office. Mary had previously worked across a number of offices across the University, including the President's Office.

### UCD School of Classics

#### Professor Theresa Urbainczyk

Theresa took early retirement in February 2017 after more than 20 years at UCD. An extremely popular and committed teacher, her research interests ranged from church history to slave revolts to the reception of Classics in film. She has just published a book on the Byzantine historian Niketas Choniates (Routledge, 2017).

### UCD School of English, Drama and Film

#### Hilary Gow

Hilary worked in various administrative roles in UCD from the 1970s onwards, including periods in the Library, in Mathematics, and then in Drama Studies. In recent years she was a hugely valued member of the administrative team in the School of English, Drama and Film, where she ably looked after all aspects of postgraduate recruitment, enrolment and registration.

#### James Ryan

James was the driving force and inspiration behind the establishment of the hugely successful MA and MFA programmes in Creative Writing at UCD, where he has been teaching creative writing since 2006. An inspirational teacher and mentor, James is also a distinguished novelist and critic.

### UCD School of Languages, Cultures and Linguistics

#### Georg Grote

Georg joined the German Department in 1997 and retired in 2017. From 2014-2016 he was Head of the School of Languages, Cultures and Linguistics. A historian by trade, Georg is a distinguished scholar of the history of regionalism and the Südtirol. We wish him all the best in his retirement.

## College of Business

### Anne Coughlan

Anne retired from the Human Resource Management and Employment Relations Group in September 2016. She worked on a major research project on the impact of the recession on human resource management and also contributed to a number of undergraduate and graduate modules. Her major role was in leading the research project component of the MSc HRM Programme, accredited by the Chartered Institute of Personnel and Development. To this role she brought great skill and experience, gained in her earlier career as a senior research executive

in the Irish Business and Employers' Confederation (IBEC), combined with her knowledge of research methods, professional reporting and project management. Anne undertook all of her work with students with enormous dedication and care and her students benefited greatly from her wisdom and care.

## College of Engineering and Architecture

### UCD School of Biosystems and Food Engineering

#### Tony Fitzpatrick

Tony joined the technical staff of the former UCD Department of Agricultural Engineering in 1978. For over 38 years Tony managed our food engineering laboratories and was actively involved in the training of many undergraduate and postgraduate students. Throughout his career Tony made an invaluable contribution to our teaching and research programmes.

### UCD School of Civil Engineering

#### Associate Professor Mark Richardson

Associate Professor Mark Richardson retired from the School of Civil Engineering in February 2016. Mark commenced his professional engineering career in 1977 with Arup Consulting Engineers. In 1981 he commenced the first of six part-time lecturing contracts at UCD which led to a long and happy association with Professor JW de Courcy, Ireland's foremost authority on reinforced concrete structures. They collaborated on several projects in the course of which Mark completed Masters and PhD graduate studies. He formally left industry in 1988 to pursue a full-time academic career in UCD, specialising in evidence-based development of national and European concrete standards. In addition to his passion for educating engineers and architects – receiving a UCD President's Teaching Award in 1999 – he held numerous positions in UCD including chairmanship of two Academic Council committees; consecutive terms as a Head of Department/School (2004-2016); Vice-Principal for Internationalisation – Engineering and Architecture (2012-2015) and Deputy Vice-President for Global Engagement (2015-2017). He was also a significant contributor to the profession of engineering and the industry in leading roles with Engineers Ireland, the National Standards Authority of Ireland and as Managing Director of the Irish Concrete Society Ltd.

## College of Health and Agricultural Sciences

### UCD Lyons Farm

#### Pat Duffy

Pat Duffy started his career in UCD in 1976 and was based at UCD's Lyons Farm. He provided invaluable highly skilled support for research and teaching in animal science and animal health and welfare to many staff and students of the then Faculties and now School of Agriculture and Food Science and the School of Veterinary Medicine. Pat retired in November 2016 after 40 years exceptional service. UCD School of Agriculture and Food Science



### **Kevin Kenny**

Throughout his 42 years in UCD (1975–2017) Kevin Kenny's name was synonymous with fruit, apples in particular. Firstly at St Catherine's (Lucan), and later at Rosemount Environmental Research Centre (Belfield), Kevin conducted fruit varietal trials, taught hundreds of students in many aspects of horticulture including grafting and pruning of apples. He also curated the nationally significant Lamb Clarke Heritage Apple collection.

## **UCD School of Medicine**

### **Professor Patricia Casey**

Patricia retired as UCD Professor of Psychiatry at the Mater Misericordiae Hospital at the beginning of the academic year. She graduated from Cork in 1976 with a Bachelors of Medicine and Surgery before completing her basic medical and higher specialist training in Britain at the Mapperley Hospital, Nottingham and the Royal Edinburgh Hospital. She returned to her alma mater in 1985 where she was appointed senior lecturer and consultant psychiatrist in the Department of Psychiatry at Cork University Hospital until her appointment as Professor of Psychiatry and Director of the Acute Psychiatric Unit at the Mater Misericordiae Hospital in 1991. Professor Casey was a Fellow of the Royal Academy of Medicine in Ireland, the Royal College of Psychiatrists, and the Royal Society of Medicine. She is a former member of the Board of International Study Group on Personality Disorder, the Interim Prisons Authority (2000–2005) and the Medico-Legal Society of Ireland. As a faculty member, Professor Casey has been a member of the UCD Academic Council and its High Degree sub-committee.

### **Dr Geoff Chadwick**

Geoff, Lecturer in Clinical Medicine and consultant in internal medicine and respiratory at St Columcille's Hospital, Loughlinstown retired following a distinguished 39-year career as a medical educator and clinician. He graduated from TCD in 1978 and completed his intern training at the Adelaide Hospital before undertaking basic specialist training at the Federated Dublin Voluntary Hospitals from 1979 to 1981 where he was registrar in general internal medicine at the Meath Hospital Dublin and then registrar in respiratory medicine at St James's Hospital Dublin. Dr Chadwick was appointed a Lecturer in Medicine in the UCD School of Medicine and St Vincent's University Hospital in 1983. He became consultant physician in 1990 at the Mater Misericordiae Hospital. An advocate of continuing education, he was awarded an MD from Trinity in 1989, and an MBA in Health Services Management from UCD in 1999. Dr Chadwick became International Clinical Lead for the Royal College of Physicians in Ireland in 2014.

### **Professor Denis Cusack**

Denis retired from his academic post in UCD after 25 years of distinguished service. He was a UCD Full Professor and Head of Forensic and Legal Medicine at the UCD School of Medicine since his appointment in 1995. Professor Cusack continues in his role as the Director of the Medical Bureau of Road Safety. Professor Cusack graduated from UCD School of Medicine in 1980. He trained in general internal medicine and diabetes/ endocrinology in Ireland and the USA. He was called to the Bar of Ireland in 1991, following studies at Kings Inns specialising in personal injury and medical negligence actions. He is a Fellow of the Royal College of Physicians of Ireland (1996), a Fellow of the Chartered Institute of Arbitrators, London (1999), and a Foundation Fellow of the Faculty of Forensic and Legal Medicine at the Royal College of Physicians in London. He was President of the Coroners Society of Ireland from 2008 – 2010 and President of the Medical-Legal Society of Ireland from 2015– 2017. He is a member of the Council of the Medico-Legal Society of Ireland, of the Executive, European Council of Legal Medicine and of the Scientific Advisory Committee, International Academy of Legal Medicine. Professor Cusack is international representative of the Presidium of the International Academy of Legal Medicine, a member of the international editorial board of the International Journal of Legal Medicine and the Journal of Forensic and Legal Medicine, and Founding Consultant Editor of the Medico-Legal Journal of Ireland. Prof Cusack has served on numerous national and international bodies and expert advisory committees on medico-legal, forensic and coronial matters.

### **Henry Kavanagh**

Harry (to his friends) joined UCD's Pathology Department as a technician in 1970. His training complete, he quickly assumed a key role in the diagnostic histopathology team. His sympathy for instruments and aptitude for learning new techniques meant he was chosen to support UCD's contribution to the emerging field of diagnostic electron microscopy. From an early stage, Harry was making a key contribution to UCD's pathology teaching effort as he was tasked with turning informative specimens into teaching material and ultimately with the maintenance of the entire pathology specimen archive.

### **Denise O'Brien McDonnell**

Denise retired after 38 years of service as a senior support staff member in the UCD School of Medicine. Ms O'Brien McDonnell commenced in the National Virus Reference Lab in UCD in 1979 where she excelled in post and was promoted to a position providing teaching support for modules within the Biomedical Section in the UCD School of Medicine.



### **Professor Ronan O'Connell**

Ronan retired from his University appointment this year. Professor O'Connell held the position of UCD Professor of Surgery and Consultant Surgeon at St Vincent's University Hospital since September 2007. He was previously Senior Lecturer in Surgery at the Royal London Hospital (1989-1990), consultant surgeon at the Mater Misericordiae University Hospital (1990-2007) and Newman Clinical Research Professor at UCD (2002- 2007). In 2009, he was appointed Section Head of the Section of Surgery and Surgical Sciences at UCD and he was elected Chairman of the South East Dublin Department of Surgery. He graduated from Dublin University, trained in Dublin and Cork and completed specialist training in Colon and Rectal Surgery at the Mayo Clinic, Minnesota, USA. Professor O'Connell received the Dublin University Travelling Scholarship in Surgery (1983), a Fogarty Travelling Fellowship from NIH (1984) and a Council of Europe Travelling Scholarship (1989). He holds fellowships of the Royal College of Surgeons in Ireland (1983) and the Royal College of Physicians and Surgeons of Glasgow (Honorary) (2001). He was elected to the Council of the Royal College of Surgeons in Ireland in June 2008. He is a member of the Irish Society of Coloproctology, a fellow of both the Association of Coloproctology of Great Britain and Ireland and the American Society of Colon and Rectal Surgeons and secretary of the European Association of Coloproctology. He is a fellow of the Association of Surgeons of Great Britain and Ireland and a member of the Society of Pelvic Surgeons and the International Surgical Group. He is an elected member and Editor in Chief for the European Surgical Association. In 2010 he was elected to the James IV Society of Surgeons.

### **Professor Declan Walsh**

Declan retired from the inaugural Professor of Palliative Medicine at Our Lady's Hospice, a joint appointment between TCD and UCD which he took up in 2012. He is a Medical Oncologist by training, and was the Founding Director of the ground-breaking Harry R Horvitz Center for Palliative Medicine at the Cleveland Clinic – a model for hundreds of others internationally. Professor Walsh was the Senior Editor on a major textbook and web resource entitled Palliative Medicine and other honours include an honorary Visiting Fellowship at Oxford University, the National Leadership Award from the American Academy of Palliative Medicine, and the John Mendelsohn Award from M.D. Anderson Cancer Center. He is a Fellow of the Royal Colleges of Physicians of Edinburgh and London, and the American College of Physicians.

## **UCD School of Veterinary Medicine**

### **Kevin McMahon**

Kevin retired from UCD School of Veterinary Medicine, Section of Veterinary Biosciences in April 2017. He initially worked as a Technical Officer in Woodview in the Clinical Biochemistry laboratory of Dr Claire O'Connor before joining the Veterinary Sciences section following the move of the UCD School of Veterinary Medicine to Belfield. During his time in the Veterinary Biosciences section, Kevin was a stalwart in running the tissue culture facility for numerous research projects in the Section, School and College, teaching countless undergraduate and graduate students the skills of tissue culture. He also provided excellent technical support for many practicals for modules run by the Veterinary Biosciences section. Kevin was an avid tennis player and is missed greatly by his colleagues in the Veterinary School.



## College of Science

### School of Biology and Environmental Science

#### Damian Egan

Damian retired from the School of Biology and Environmental Science in September 2016 after 42 years of service to UCD. During his time at UCD, Damian was involved in both teaching and research, particularly in molecular plant pathology and in the development of environmental DNA analysis techniques. He was involved in the training of a vast number of undergraduate and postgraduate students over the years, and latterly held the role of Chief Technical Officer in the School. Damian retains a keen interest in photography and identifying wild flowers. His photographs have been published in several books including most notably 'The Grasses of Ireland'.

#### Robert French

Robert retired from the School of Biology and Environmental Science in the summer of 2017 following 40 years of service to UCD. Robert was a chemist by training (CCHEM and MRSC) but spent his career working with students in the Zoology Department (latterly SBES) on aspects of environmental chemistry and the analysis of environmental samples. He was well known and highly respected across the University, maintained the environmental chemistry lab, was involved in the training of countless students, and played a key role in staff development in his role as Chief Technical Officer. UCD School of Biomolecular and Biomedical Science

#### Professor Paul Malthouse

Paul obtained his degree and PhD from the University of London. He subsequently worked with Professor K Brocklehurst at the University of London (1973-1978) and Professor RC Bray at the University of Sussex. It was during his time with Professor AI Scott at Edinburgh (1980-1983) and Texas A & M (1983-1985) Universities that he became interested in using NMR as a probe of protein structure and function. Paul joined the UCD Department of Biochemistry in 1985 and set up the Biochemistry NMR Centre in UCD. He was appointed Head of the Department of Biochemistry in 2002 leading the Department into the merger to become part of the UCD School of Biomolecular and Biomedical Science in 2006, after which he was appointed Head of Biochemistry 2006-2008 and 2015-2017. Throughout his time in UCD, Paul has led an active research group utilising NMR and especially <sup>13</sup>C-NMR to study a range of proteins. He has many collaborators both within UCD and externally. He is a Conway Fellow and CSCB fellow. During his time at UCD, Paul was awarded the President's Research Fellowship (1990 and 2008). In 1997 he was presented with the Royal Irish Academy, Biochemistry Award Medal and in 2005 was elected a member of the Royal Irish Academy.

### UCD School of Chemistry

#### Dr Andrew Rous

Andrew joined UCD in April 1987 having undertaken a BA in Natural Sciences at Cambridge, a PhD with Professor Mike Page at Huddersfield, a two-year postdoctorate at Leicester, and a second at Trinity College Dublin. At the UCD School of Chemistry, Andrew took a lead role in the development and operation of the School's Nuclear Magnetic Resonance (NMR) facility, supporting many generations of

undergraduate, postgraduate, postdoctoral and academic researchers as well as providing an invaluable service to industry. It was in Dublin that he joined the SCI and later served as Secretary (1999-2002), Chairman (2002-2005) and Treasurer. The SCI selected him as one of two recipients of the Distinguished Service Award, presented at their Annual General Meeting on 7 July 2010. This award honours members for their long-term service, hard work and enthusiastic efforts to further the aims of the Society. Dr Rous was nominated for this Award by his colleagues in the All Ireland Group, in recognition of his instrumental role in the revival of the Group from the late 1990s to the early 2000s; collaborating with other Groups and societies. At UCD Chemistry, in recent years he also made a significant contribution to laboratory-based undergraduate teaching providing wisdom, support and oversight to students and colleagues alike. School of Computer Science

#### Clare Comerford

Clare retired from UCD in May 2017 having worked in the School of Computer Science for over 16 years. For much of that time she worked in the Computer Science front office and was the first point of contact for visitors and students.

#### Patricia Geoghegan

Patricia retired from UCD at the end of December 2016 having worked in Computer Science since 1977. She joined the Department of Computer Science and took on the role of Manager of the School of Computer Science and Informatics in 2004.

## College of Social Sciences and Law

### UCD School of Education

#### Anne Owens

Anne contributed to the School of Education initially as a research assistant on the roll-out of the National Pilot Induction Project for secondary teachers, and laterally as an administrator to our professional development programmes in the areas of inclusive/special needs education and educational psychology. Her years of service were characterised by exemplary care and commitment to faculty, staff and students in the School.

### UCD School of Law

#### Professor Paul O'Connor

Paul, a UCD law graduate who also studied at the University of Pennsylvania and the Kings Inns retired from the Sutherland School of Law during the year. After several years in the Law School, he served as associate dean from 1989 and then Dean from 1992-2007, overseeing the expansion of the School, the introduction of new programmes and the establishment of the Institute of Criminology. He also developed the School's expansive Erasmus and international exchange programmes that remain an important feature of legal education in UCD. He established close links with the professions and set up the School's Development Council which was important in supporting the establishment of endowed chairs and the building of the Sutherland School of Law. More recently Professor O'Connor returned to teaching, generations of UCD law students will remember his erudite and extraordinarily fluent lectures in evidence, family law and history

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## Retirements

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of penal policy. He was director of the Institute of Criminology and has overseen a revitalisation of the Irish Jurist, the leading law journal in Ireland which has been long associated with UCD.

### UCD School of Psychology

#### Marie O'Connor

Marie joined UCD in 1995 as an administrator with the UCD Centre for Disability Studies, retiring in 2017. In 2005, the Centre joined the UCD School of Psychology where Marie provided administrative support across a number of postgraduate programmes. Marie's contribution to both the Centre and the School were invaluable. We wish her every good wish in her retirement.

### School of Social Policy, Social Work and Social Justice

#### Professor Tony Fahey

Tony joined the School in 2007 as Professor of Social Policy having previously worked at the Economic and Social Research Institute and Maynooth University. He played a key leadership role in the School's social policy degree and social policy research and served as a very successful head of school. His research interests are varied and he has researched and published on: family dynamics, housing, poverty and spatial aspects of disadvantage and of policy responses to disadvantage. He remains very research active in retirement currently researching family patterns and family policies in contemporary Ireland, Europe and the United States. Tony is also notable as one of the few fluent Irish speakers in the social policy community and consequently he has a virtual monopoly in commenting on social policy issues and indeed any social or economic issues whatsoever on TG4 and RTÉ Raidió na Gaeltachta.

### Commercial, Residential and Hospitality Services

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#### Catherine Maleady

Catherine was employed in the main restaurant as a senior cashier. She joined UCD in January 1990 and retired in February 2016. She always had a friendly smile for customers of the restaurant.

#### Terry Slevin

Terry was employed in the restaurant as a kitchen porter and was well liked by his colleagues. He joined UCD in September 2003 and retired in September 2016.

## Human Resources

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#### Naomi Farrell

Naomi Farrell retired in August after 36 years' dedicated service to UCD having commenced employment in February 1981. Over her time in UCD she held a number of roles and spent the majority of her career in Human Resources specialising in the Compensation and Benefits area. During her time there, Naomi always worked to very high standard within tight weekly and monthly deadlines. She was hugely committed and provided an excellent service to colleagues across the University. Naomi made a significant professional contribution to the HR team and to UCD.

## President's Office

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#### Paul Kelly

Having already earned a BA (Hons) in History and English, a HDip in Education and an MA in History from UCD, Paul began his employment with the university in 1986 in a temporary capacity and was made permanent in 1991. He was based in the Registrar's Office, the Faculty Office of Engineering and Architecture (a secondment) and the President's Office during his time. During his 30 years in UCD Paul worked with members of the Governing Authority, UMT, Audit and Risk Management Committee and University Secretariat where he made significant contributions.

## Student Health

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#### Mary Kevlin

Nurse Mary Kevlin retired from the Student Health Service in May 2017 after 14 of years administering excellent nursing care to the students of UCD. Mary loved her job and took a genuine interest in the welfare of the students and in promoting a positive working atmosphere in the Student Health Services. She always treated her patients in a professional and competent manner and with great care and kindness. She was a pleasure to work with and we must mention her unwavering good humour and the unique sense of fun that she brought to the workplace. Mary was always ready to go the extra mile for her colleagues, who miss her in the Student Health Service and wish her all the best in the next phase of her life's adventure.



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