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The global environment is facing unprecedented challenges. Population growth and resource consumption are placing enormous pressures on the natural capital which underpins our life-support system, prosperity and well-being. Impacts of these challenges are unfairly distributed through society at local, national, regional and global scales.

It is recognised that economic activity must continue to support global aspirations for improved quality of life for all. However, it is also very clear that our economy and society must change dramatically to reduce environmental degradation, address the climate and biodiversity emergencies and enable a more just and sustainable future.

These challenges provide the impetus for global initiatives such as the United Nations Sustainable Development Goals, the Convention on Biological Diversity, the Intergovernmental Panels on Climate Change (IPCC) and on Biodiversity and Ecosystem Services (IPBES), the green and blue growth agendas and moves towards a circular economy and a just transition.

These initiatives drive Ireland's environmental innovation and stewardship through national frameworks such as the National Development Plan, the National Biodiversity Plan, Heritage Ireland 2030, the National Climate Action Plan, FoodWise 2025 and European Union (EU) agendas such as the EU Green Deal, the EU Biodiversity Strategy 2030 and the New European Bauhaus and directives such as the Nitrates Directive, the Water Framework Directive, and the Marine Strategy Framework Directive.

Covid-19 has illustrated this interconnected matrix of environmental, social and economic factors as land use change feeds into increased human-wildlife interactions, zoonotic disease and a pandemic that exacerbates existing inequalities. But out of the pandemic has come a powerful impetus for social, economic and environmental change and a demonstration that change is possible when research, enterprise, policy and society combine effectively.

To bring about change for the better, it is essential that the higher education and research sector plays its part in characterising the most pressing environmental and sustainability challenges, cocreating innovative solutions with industry and society and providing a sound knowledge base for environmental policy and management.

These challenges are necessarily complex and interdisciplinary in nature. Research must involve perspectives from a wide range of disciplines such that economic, societal and cultural dimensions are considered in combination with scientific and technological approaches. Education must nurture interdisciplinary knowledge and skills in sustainability so that the next generation can further drive the agenda now and in the future.

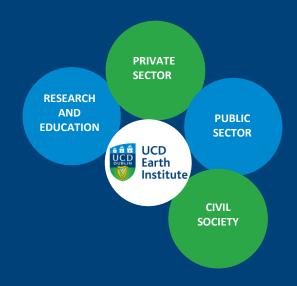
Research and Education	Policy and Governance	Innovation and Enterprise	Society and Engagement			
	CLIMATE					
	WATER					
EC	ECOSYSTEMS AND EVOLUTION					
CROPS FOR THE FUTURE						
SUSTAINABLE COMMUNITIES						
BUILT AND CONSTRUCTED ENVIRONMENT						
PEOPLE, WORK, SOCIETY						

University College Dublin (UCD), as the largest third level Institution in Ireland, encompasses the full range of disciplines required to address environmental and sustainability challenges, with experts spread across 37 Schools in the Colleges of Science, Arts and Humanities, Business, Social Sciences and Law, Health and Agricultural Sciences and Engineering and Architecture. UCD also has seven research institutes which serve to foster research activity. Supported by small teams of core staff, institutes seek to complement the activities of Schools and Colleges, with whom each member has their primary affiliation.

UCD The Earth Institute provides an interdisciplinary space in which to bring together UCD's diverse expertise to address environmental and sustainability challenges. It looks to create new connections and collaborations, promote the crossfertilisation of ideas, and actively support research that is innovative and impactful. We provide an interface to support environmental and sustainability stakeholders in identifying and partnering with our researchers.

The Institute is structured around seven multidisciplinary themes: Water. Climate. Ecosystems and Evolution, Crops for the Future, Sustainable Communities, the Built Constructed Environment and People, Work, Society. The themes reflect key environmental and sustainability issues and the diversity of our members' expertise and interests. Cutting across these themes, we have dimensions on Research and Education, Policy and Governance, Innovation and Enterprise and Society and Engagement.

The Institute also supports two to four bottom-up strategic priority projects each year to bring together researchers from different disciplines to address the topical challenges they identify and build new collaborations. Current projects in 2021 include a collaboration with a local community group to map actions to address the UN Sustainable Development Goals, a new Centre for Irish Towns and a project identifying resilient crops for the future and examining cultural aspects of their history and uptake.



These themes, dimensions and strategic priority projects give shape to the Institute's activities and foster interaction among members and with other institutions, organisations, sectors and wider society.

The Earth Institute contributes to the achievement of UCD's strategic plans. In UCD's current plan, *Rising to the Future 2020-2024*, the Institute directly feeding into theme 'Creating a sustainable global society' and supporting 'building a healthy world' and 'empowering humanity'.

These themes relate not only to research, but also to education and institutional operations and the UCD research institutes can contribute to all three. For example, the Earth Institute has played an important role in developing UCD's innovative new BSc in Sustainability.

The last strategic period for the Earth Institute (2018-20) saw a number of important changes in direction. After wide consultation, we established a more inclusive membership policy, with a particular focus on early career researchers and a commitment to expansion. We sought increased engagement with researchers from the arts, humanities and social sciences (AHSS), worked on integration with our existing strengths in the science, technology, engineering and mathematics (STEM) disciplines, and focussed on building a strong sense of community for members from the full range of disciplines. Priorities included changes in governance, via the executive committee and external advisory board (see Appendix A), closer engagement with Schools, Colleges and other institutes, research centres, organisations and stakeholders, and the introduction of more bottomup initiatives and supports to engage and benefit from the expertise and enthusiasm of the member community. Equality, diversity and inclusion were important priorities throughout and are now a focus for active research within the Institute through our People, Work and Society theme.

We also contributed substantially the development of an innovative new cross-college BSc in sustainability and are committed to student engagement with sustainability challenges, for example running competition for by а undergraduates, partnering with the EPA on a competition for second level students and collaborating on events with student societies.

In this new plan, we highlight some of the progress made over the past three years and outline plans to build strategically on that progress. The new plan presented here outlines our strategic approaches for the next phase of activity to (a) Increase the quantity, quality and impact of environmental and sustainability research and innovation by further strengthening our interdisciplinary community and by facilitating and supporting our members and (b) Build our engagement and reputation locally, nationally and internationally by developing internal and external partnerships and further enhancing our profile and societal impact.

This plan presents an exciting vision and programme for the next four years and the Earth Institute team looks forward to working with our members, collaborators and partners to bring it to fruition.

Professor Tasman Crowe UCD Earth Institute Director

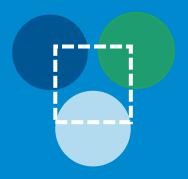


Fostering interdisciplinarity is central to the mission of the Earth Institute because insights and solutions to environmental and sustainability challenges generally involve more than one disciplinary perspective. Academic Schools and Colleges are generally established within disciplinary areas and the Institute serves as a bridge between them, helping to establish new conversations, ideas, insights, collaborations and innovations.

In this document, the term *interdisciplinarity* is used as a shorthand for three forms of collaboration, along a spectrum of interaction and integration. *Multidisciplinarity* combines viewpoints on a problem from the perspectives of two or more disciplines, but there is minimal interaction across disciplines. *Interdisciplinarity* implies a degree of integration between disciplines; the boundaries between them start to break down through working together and sharing ideas and approaches. *Transdisciplinarity* involves a complete breakdown of the barriers between disciplines, which integrate to become something new.

Establishing these kinds of collaborations requires connections to be made between individuals who are open to engaging with others with quite different objectives, approaches and languages. Despite the importance of interdisciplinarity, particularly in the context of sustainability, there are some systemic barriers to it in academia, such as the organizational structures of institutions and the emphasis on expertise within a discipline for publication, funding and promotion. As such, a cultural shift is needed to help promote and celebrate interdisciplinary approaches.

MULTIDISCIPLINARITY

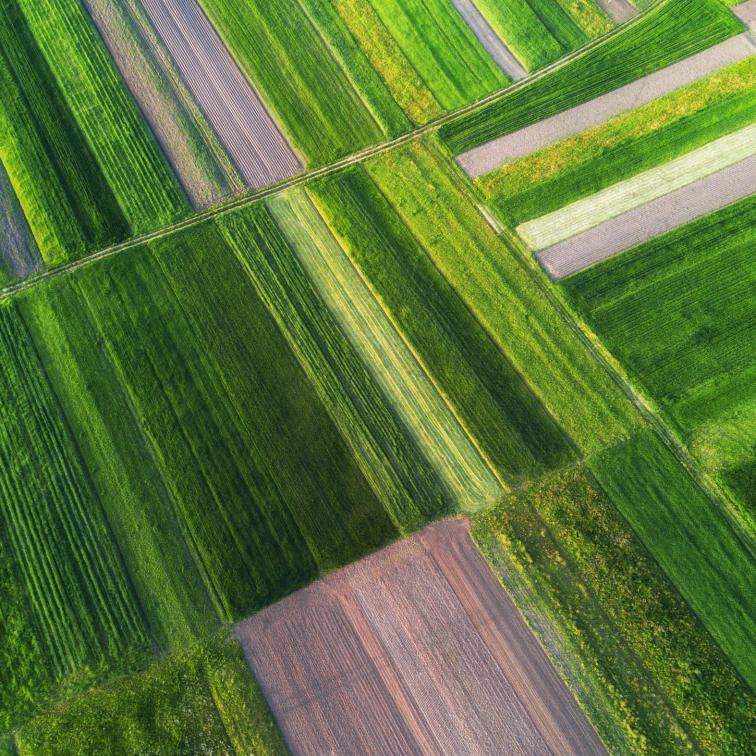


INTERDISCIPLINARITY



TRANSDISCIPLINARITY





VISION

Our vision is for a vibrant Earth Institute that combines its members' expertise to contribute to a sustainable future, integrating environmental considerations and research into decision-making and discourse at all levels.

MISSION

Our mission is to foster research and innovation to address the environmental challenges of our time, to develop and support the environmental and sustainability research community in UCD and beyond, to forge new connections across disciplines and sectors and to help maximise the impact of our members' work.

In doing so, we will support the mission of the University to contribute to the flourishing of Ireland, Europe and the world through the excellence and impact of our research and scholarship, the quality of our graduates and our national and global engagement; providing a supportive community in which every member of the University is enabled to achieve their full potential.



OBJECTIVES

- 1. Increase the quantity, quality and impact of environmental and sustainability research, and innovation by building interdisciplinary communities and facilitating and supporting our members.
- 2. Build our engagement and reputation locally, nationally and internationally by developing partnerships and enhancing profile and societal impact.

OBJECTIVE 1: Increase the quantity, quality and impact of environmental and sustainability research and innovation

1.1 Building interdisciplinary communities

The pressing environmental issues we face today and in the future require input and expertise from a variety of disciplines and sectors if they are to be successfully addressed.

To foster interdisciplinarity, it is important to create multiple ways for our own community to come together, become aware of each other's skills and interests, interact formally and informally to spark new ideas. This can only be achieved through a culture of equality, diversity and inclusion across disciplines, career stages and roles.

The period 2018-2020 saw the development of a new model of Institute membership, encompassing a wider range of disciplines and broadening scope to include early career academics, and a new Associate Member status to acknowledge the important role in the Institute's community played by postdoctoral and doctoral researchers, as well

as technical and research support staff. We also established affiliate membership for researchers based at other institutions. The Institute has proactively sought to bring on board and support new members, especially recent arrivals to UCD, with a growth in this period from 60 members to over 130, and an associate membership of 260.

A new interdisciplinary BSc in Sustainability was launched, harnessing the research and teaching expertise of the breadth of the Institute community. A range of new activities was developed to bring the membership together, including a new collaborative funding programme, our ever-popular coffee mornings, seminar series, career development sessions and campus walks. During the restrictions related to Covid-19, the Institute successfully moved many of these activities online

and continued to build and support its community.

In 2021-2024, we will

- continue to build on these successes, developing new ways of fostering community and interdisciplinary collaboration, both in person and remotely
- provide ready access for early career researchers and incoming early career Ad Astra academics to invaluable multidisciplinary networks
- create a supportive environment for new ideas and initiatives from our community across all career stages, with practical, financial and administrative support
- continue to cultivate an open, supportive, inclusive and collegial environment in all facets of the Institute's activities and practices
- reflect our commitment to equality, diversity and inclusion and adhere to the highest standards of integrity, dignity and respect



Geography is inherently interdisciplinary with sub-disciplines in both earth and societal aspects of today's global challenges. The Earth Institute's mandate to support networks and collaborations across both science and social sciences is a tremendous contribution to our discipline.

2020 alone has seen several members of our School discuss their research: Niamh Moore-Cheery had an interview in the Institute's Earth Talks series on urban development, Bradley Garrett launched his new book Bunker, and we co-hosted leading geographer Professor Danny Dorling (University of Oxford) talking on Slow Down- the end of the great acceleration.

I myself have met numerous researchers I simply wouldn't have known where to find and have forged new collaborations and some seed funding, with other members of the Institute. Most importantly, it offers early career researchers a place to meet other researchers and to share understanding. The coffee mornings for me personally were a short respite to hear about the tremendous work happening around the University - it was a vital connection in an otherwise disconnected period during Covid.

The ongoing support offered by the Institute for research collaboration and funding opportunities is beyond what one can expect of an entity like the Earth Institute and it's a credit to the whole team that they have such an engaged attitude to helping all of us work better together. I think the Earth Institute continues to grow from strength to strength and Geography considers itself very fortunate to have access to this expertise and commitment.

Prof. Jacky Croke UCD School of Geography

I received funding from the Small Responsive Fund in 2019 - at a time when I was working as an IRC-funded research fellow in the School of Mathematics and Statistics and the Earth Institute. The funding allowed me to travel to the UK to pursue a side project and collaborate with a researcher at the University of Reading on numerical simulations of a rotating annulus.

rotating annulus, and a still ongoing collaboration. For the future it is envisioned that this software will be used as a basis for a scientific publication or student projects. I have since progressed in my career and taken on an assistant lectureship in TU Dublin. No doubt, the network I built during my time in the Earth Institute has positively impacted my career development.

The collaboration resulted in software that can be used to simulate a multi-layer



Dr Nicole Beisiegel **Technical University Dublin**

1.2 Facilitating and supporting our members

Excellent interdisciplinary research is underpinned by support staff, infrastructure and professional development, ensuring that new connections and ideas can develop into impactful and innovative research.

Over the period 2018-2020, bottom-up funding streams were introduced for Institute members to develop interdisciplinary collaborations on topical issues (strategic priority mechanism, Appendix C) and to support travel, events and other activities (small responsive funding scheme, Appendix D), while a number of successful interdisciplinary externally-funded awards have been supported. Institute members have had significant successes in research funding in this period, with awards

totalling over €30M (Appendix F).

The Institute has become an active facilitator of links between members, Schools and units to maximise the benefit of research equipment, facilities, and infrastructure within the University.

The Institute's base in the UCD O'Brien Centre for Science has become a hub of disciplinary diversity and activity, with an increase in the variety of disciplines represented in the space, enhanced further by the hosting of visiting academics and the provision of space for Institute members based elsewhere on campus. The Institute coordinates use of that space by researchers from eight different Schools and took a lead role in doing so during the Covid-19 restrictions.

In 2021-2024, we will

- sustain our current funding programmes to support individual members in their research and the emergence of new strategic research areas
- further extend proactive facilitation of funding applications, targeting interdisciplinary opportunities of scale, complementing the work of staff in Schools, Colleges and UCD Research
- enhance the competitiveness of UCD environmental and sustainability researchers in securing research funding, creating impact and in developing commercial and social applications for their research outputs.
- further develop our training and support programmes for early career researchers and research support staff, based on best international practice, to support them in achieving their goals in UCD and in their careers.
- promote and support the sharing of expertise and resources across the membership, through knowledge exchange, networking, mentoring and events.



The Environmental Protection Agency competition, *The Story of Your Stuff*, invites second level students to investigate the life cycle of everyday 'stuff' through a creative medium. Students are encouraged to ground their research in the EPA's Ireland's Environment web resource, the key source of up-to-date information on Ireland's Environment. The aim of the competition is that students, and by extension their families and school communities, make everyday choices that reduce their environmental impact.

The EPA began to collaborate with the UCD Earth Institute at the UCD O'Brien Centre for Science in 2019. The competition now culminates in a showcase finale event on campus, celebrating the competition finalists and their projects. Over 100 students attend and receive special insight into innovative research projects taking place in UCD and the 2019 national finale event received fantastic feedback.

Colette Ryan
Environmental Protection Agency

The UCD School of Archaeology has a strong and longstanding relationship with the Earth Institute. Many school staff have benefited from membership and participation in the Institute's research community.

For example, in 2019, we hosted a workshop for researchers from Ireland, Britain and Norway who studied prehistoric quarries. As part of this meeting, we received a €500 grant from the Earth Institute's Small Responsive Funding Scheme allowing us to hire a boat to take us on a field visit to Lambay Island, a quarry site for Neolithic stone axe manufacture. This trip was a highlight of the workshop and provided plenty of time for discussion and exploration of ideas.

Arising from this I became a partner on a project which had been developed by Astrid Nyland (University of Stavanger). This project examines the social impact of the last major tsunami in Northern Europe – the Storegga tsunami of 6150 BC – on the hunter-gatherer communities who settled Norway and Scotland. In early 2020 four years of funding for this project was confirmed from the Norwegian Research Council, and we start work soon on our comparative study."

Prof. Graeme Warren UCD School of Archaeology



OBJECTIVE 2: Build our engagement and reputation locally, nationally and internationally

2.1 Developing partnerships

Intersectoral and interdisciplinary partnerships are solutions to developing complex key to challenges. environmental and sustainability Collaborating enables into us to tap complementary expertise, initiate new research partnerships, and increase the impact and benefits of our activities.

Over the period 2018-2020, we initiated and supported new relationships with government agencies, academic partners, enterprise and community groups to the benefit of our members and UCD.

We developed new initiatives and productive

partnerships nationally and internationally with organisations including the All-Ireland Climate and Biodiversity Research Network, the Environmental Protection Agency, the Environmental Science Association of Ireland, Future Earth Ireland, the United Nations Academic Impact programme and the World Universities Network.

Within the University, we collaborated with colleagues from across UCD's six Colleges and constituent Schools, with our six fellow Institutes and forged productive links with Research Centres to help deliver new and innovative initiatives and events.

In 2021-2024, we will

- partner with organisations with shared values and complementary interests to maximise the impact of our research and create new opportunities for our members
- proactively develop new strategic relationships with leading universities, state agencies, enterprise, funding agencies, social and community organisations, nationally and internationally
- act as an interface to broker new collaborations between our members and stakeholders relevant to their research
- build new institutional connections through our network of Affiliate Members
- collaborate internally with relevant units to raise the profile of environmental and sustainability research and researchers across the University.



The Earth Institute was crucial in helping to develop the ideas and networks behind our successful Science Foundation Ireland Centre application in 2017 for the BiOrbic Bioeconomy Research Centre, bringing together a multidisciplinary consortium of scientists, social scientists and engineers.

BiOrbic and the Earth Institute are now co-located in the O'Brien Centre for Science, and the Institute continues to provide invaluable support for BiOrbic's growth and development.

Prof. Kevin O'Connor Director, BiOrbic Bioeconomy SFI Research Centre

I joined the Earth Institute in 2019, when I moved to UCD to start my research group in computer vision and machine analytics. The Institute provided our research group the opportunity to collaborate with other Institute members, thereby performing world-class environmental research.

I enjoy being a part of the Institute community because of its interdisciplinary nature, regular funding seminars and workshops, and vibrant coffee mornings organised every Thursday. I have received extensive technical and research funding support from the rich network of dedicated project management team, climate scientists and atmospheric researchers in the institute. I am looking forward to an exciting and an eventful future with the Institute in the coming years.

Dr Soumyabrata Dev UCD School of Computer Science





The Earth Institute was pivotal for *BioCrop: Biostimulants and Biopesticides for Crop production*, a Department of Agriculture, Food and the Marine funded project (2020-24, €1,999,000) led by UCD. This involves a multidisciplinary team from UCD, National University of Ireland Galway, Trinity College Dublin, Teagasc, the University of Seville and industry partners including Brandon Bioscience and e-Seed. Of the UCD principal investigators in BioCrop seven are Institute members.

BioCrop will identify new biostimulants and low risk biopesticides while engaging with industry to test existing biostimulants. BioCrop aims to find alternatives for farmers in the face of EU regulations to reduce fertiliser use and the ongoing loss of plant protection products.

Dr Angela Feechan
UCD School of Agriculture and Food Science

2.2 Enhancing profile and societal impact

A strong reputation and a high profile at national and international level helps attract interest, researchers and collaborators and so further improves levels of activity, engagement and impact. Over the period 2018-2020, as our community grew in size and diversity, we started to tell the stories of our research and our researchers in new and innovative ways and to help develop members' expertise in that regard.

The Institute has reached out to researchers, stakeholders and the wider community and become more widely known. For example, it has played a central role in promoting and advocating

for the UN Sustainable Development Goals, and led the organisation of an SDG seminar series involving panels of researchers and practitioners. It routinely and visibly supports national and international workshops and conferences, both directly and through its strategic priority projects. It has attracted attention from print media for its members' work and substantially increased its following on social media.

However, we recognise that there is scope for a more substantial level of engagement to bring further benefits to the Institute's members, UCD, our collaborators, partners and stakeholders.

In 2021-2024, we will

- promote awareness of UCD environmental and sustainability research around the world, through our research outputs, through our engagement with the media, and through our participation in and hosting of international conferences, workshops and events
- enhance the profile of our members, Institute, University and partners, as well as environmental and sustainability research in all its facets and applications
- develop new communications and engagement platforms, new relationships with key media stakeholders and providing training to equip our members to communicate and engage with different audiences.
- make the case for strong public support of environmental and sustainability research, based on clear and compelling articulation of the value and impact of interdisciplinary research
- seek to play a central role in the delivery of the University's strategic themes, with environmental and sustainability research critical to creating a sustainable global society, building a healthy world and empowering humanity.
- continue to champion engagement of the UCD research community with the UN Sustainable Development Goals and will support research that addresses the Goals.



Now more than ever in human history - as a society, as citizens of Ireland and the Earth – there is a clear need for proactive multidisciplinary and collaborative engagement in order to address the major environmental issues of our time, founded on an evidence base of the highest quality.

The UCD Earth Institute delivers in a most tangible form the range of expertise, insight, perspectives and skills necessary to harness and draw together the right resources, to address key environmental questions, to critically assess the evidence and find solutions that are workable, to get the best results out of collaboration. Through its members' active willingness to contribute expertise, ideas and data, to influence decisions and policy, to guide towards a more environmentally sustainable future for us all, the Institute is poised to play a pivotal role in shaping the evolving interface between people and our built and natural environments; not just for the better but for good.

Richard Cronin
Principal Advisor, Marine, Department of Housing, Local Government and Heritage

With the support of UCD Earth Institute Small Responsive Funding, I visited the Institute of Plant Ecology at Justus Liebig University (JLU), Germany to develop collaborative links, present research results, and provide training of a new analytical technique to researchers from JLU and the International Atomic Energy Association. This method was developed as part of my PhD research in the UCD Earth Institute's Stable Isotope Analysis lab with Dr Paul Murphy. Researchers at JLU benefitted from this hands-on training and support with their new equipment which has further strengthened collaborations between UCD and this research group. The funding was very beneficial to me as I really enjoyed providing this training and the interaction with other researchers has helped my PhD and career progress.

Since the visit to Giessen a scientific paper based on the method developed in the Stable Isotope Analysis lab, which includes some of these key collaborators as coauthors, has been published and this research work has also contributed to a recently published book chapter in 'Measuring Emission of Agricultural Greenhouse Gases and Developing Mitigation Options using Nuclear and Related Techniques'. Further potential collaborations and funding opportunities investigating soil N cycling and N_2O emissions are being pursued on the basis of the methodology established at the UCD Earth Institute Stable Isotope Analysis lab with the help of this funding.



Dr Conor Bracken Teagasc



Much of my research in recent years falls under the broad heading of sustainable communities and I was drawn to volunteer to be one of the co-ordinators of the Institute Research theme on this topic, with Dr Karen Foley from the School of Architecture, Planning and Environmental Policy and the Coastal Communities Adapting Together research project. The theme brings together a number of Institute members from diverse backgrounds including agriculture, architecture, engineering, landscape architecture, geography, social policy.

My current research under this theme is on sustainable housing and community regeneration via energy (residential and transport) with a focus on poverty and social inequalities. Promotion of research in this area can help us meet several of the UN Sustainable Development Goals.

The Earth Institute facilitates and supports research collaboration in a truly interdisciplinary manner. Weekly coffee mornings by Institute members from all relevant disciplines are informative and inspiring.

Associate Professor Nessa Winston Director of Research, School of Social Policy, Social Work and Social Justice

The DIVERSICROP project is building an international research network to investigate underutilised crops. Today, much of our human dietary energy intake depends on a small variety of plants. With an increasing global population, we need to sustainably produce nutritious food, within the context of changing agro-climatic conditions. DIVERSICROP has selected stress-resilient and nutrient-dense crops that have a long history in Europe – stretching back thousands of years – but are not widespread nowadays due to a variety of issues, including social avoidance, perceived low yields and lack of governmental policies to encourage cultivation. Promotion of these crops can help us meet several of the UN's Sustainable Development Goals.

DIVERSICROP is funded by the Earth Institute Strategic Priority Support Mechanism, bringing together Institute members from diverse backgrounds, including crop science, nutrition, policy and archaeology. Earth Institute funding and administrative support is enabling the development of a solid framework in which European researchers can collaborate in a truly interdisciplinary manner.

Dr Meriel McClatchie, UCD School of Archaeology Dr Sónia Negrão, UCD School of Biology and Environmental Science









KEY PERFORMANCE INDICATORS

- 1. Fifty events each year to help build community in the membership and the wider research ecosystem
- 2. Ten percent year on year increase in number of instances of Institute contributions to new interdisciplinary research, innovation and impact highlighted by members*
- 3. Three large scale member-led multidisciplinary funding applications supported per annum
- 4. Three new partnerships with external research or stakeholder organisations initiated per annum
- 5. Ten initiatives developed each year to foster community engagement with our research
- 6. Ten percent year on year increase in media and social media mentions

^{*} Given the primary affiliation of our members with their Schools and Colleges, we are not claiming members' publications or grant income as direct measures of our success, but only highlighting tangible contributions we have made to their successes, generally volunteered by the researchers themselves



RESEARCH THEMES

The UCD Earth Institute's seven research themes reflect our multidisciplinary expertise, with theme members drawn from across UCD's six colleges.

Our themes aim to tackle local, national and global environmental and sustainability challenges, which necessarily require interdisciplinary and cross-sectoral approaches, and we work within framework of the United Nations Sustainable Development Goals.

- 1. Climate
- 2. Water
- 3. Ecosystems and Evolution
- 4. Crops for the Future
- 5. Sustainable Communities
- 6. Built and Constructed Environment
- 7. People, Work, Society



Current greenhouse gas concentrations and the rates at which they are increasing in the atmosphere because of human activities are unprecedented in recent Earth history. The resulting anthropogenic climate change is arguably the greatest challenge facing humanity. Its wideranging impacts affect the delivery of many of the fundamental societal needs identified in the UN SDGs such as improved health, food and water availability, elimination of poverty and inequality, access to clean energy, and the development of better infrastructure for sustainable cities and communities.

The problem of climate change is multifaceted; the climate system is highly non-linear and many of the climate system feedbacks remain poorly quantified within climate models. Solutions to climate change will require integrated interdisciplinary mitigation and adaptation strategies that are not only scientifically robust, but also deliverable by society. This in turn will require significant societal engagement, education and behavioural change, underpinned by robust national and international governance and monitoring to achieve climate resilient communities and a just transition.

Examples of current projects include the development of innovative methods for improved numerical weather prediction schemes and better validation of climate models and their projected impacts, through to activities that have a strong societal, policy, governance and outreach dimensions such as the development of improved



technologies for carbon capture and storage, decarbonisation of the energy sector, peatland management, research on adaptation to climate change by humans, plants and animals.

Researchers in the climate theme are exploring multiple opportunities that exist at the interface between traditional science- and engineering-based solutions and the social sciences and humanities, recognising that the latter are key to understanding the challenges we face, while enabling us to design and deliver a more ambitious and quantifiable plan for climate change mitigation and adaptation.

AGRICULTURE AND FOOD SCIENCE	ARCHAFOLOGY		BIOLOGY AND ENVIRONMENTAL SCIENCE
CIVIL ENGINEERING	EARTH SCIENCE	ENGLISH, DRAMA AND FILM	GEOGRAPHY
LAW	MATHEMATICS AND STATISTICS	MECHANICAL AND MATERIALS ENGINEERING	SOCIAL POLICY, SOCIAL WORK AND SOCIAL JUSTICE

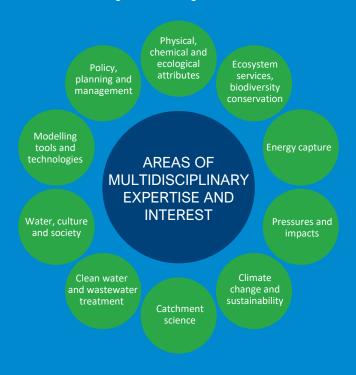


Water is essential for sustaining life on Earth and economic activities. In Ireland, we have 84,000 km of rivers, more than 12,000 lakes, 4000 km of coastline and an exclusive economic zone covering 880,000 km2, which provide essential ecosystem services and associated benefits supporting human wellbeing and economic activities.

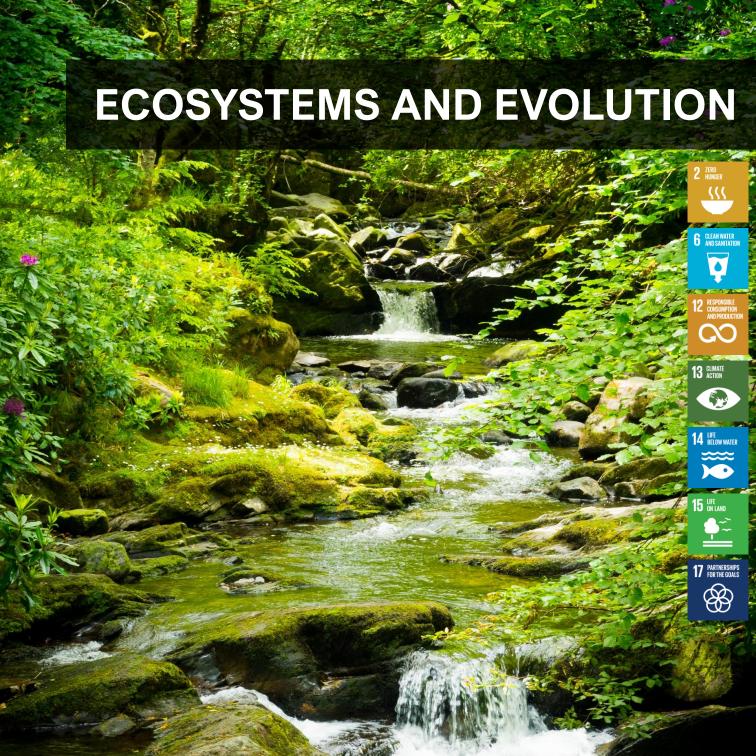
However, over the past few decades there have been increased pressures on these resources. The EPA 2020 Indicators highlights that 43% and 45% of rivers and lakes, respectively are in moderate or worse water quality, thus they are not meeting the objectives of the Water Framework Directive. Of particular concern is the loss of the high quality river sites from 500 in the 1980s to just 22 today. In the period 2013 to 2019 just under half of monitored groundwaters have shown increasing nitrate concentrations. Although few sites exceed the drinking water standards, 22% of sites had elevated concentrations indicative of inputs relating to human activities. Loads on nitrogen and phosphorus to the marine environment have also increased in recent years. In Ireland as well as globally we have significant water quality protection challenges that urgently need to be addressed.

This theme brings together freshwater and marine researchers that are addressing the information needs of policy and practice. Research relating to water quality covers detection and mitigation of multiple anthropogenic pressures including waste treatment and management. These topics are also investigated in the context of climate change and contaminants of emerging concern.

The contributions of aquatic resources to human wellbeing, also known as ecosystem services, is an area of growing focus and includes expertise to address how we support economic development and social concerns while protecting biodiversity and maintaining the flow of goods and services.



AGRICULTURE AND FOOD SCIENCE	•	ARCHAEOLOGY ARCHITECTURE, PLANNING AND ENVIRONMENTAL POLICY		BIOLOGY AND ENVIRONMENTAL SCIENCE				
BIOMOLECULAR AND BIOMEDICAL SCIENCE		IOSYSTEMS AND OD ENGINEERING	CIVIL ENG	GINEERING EARTH SCIENCES		S	ENGLISH, DRAMA AND FILM	
GEOGRAPHY		MATHEMATIC STATISTIC			IANICAL AND LLS ENGINEERING	SO	CIAL POLICY, SOCIAL WORK AND SOCIAL JUSTICE	



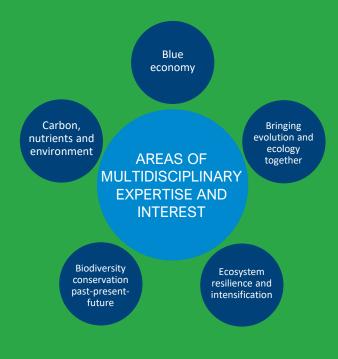
The Earth's ecosystems underpin the wellbeing of us as individuals and our society by providing essential services that range from the provision of the food we eat and the clean air we breathe, to the cultural and aesthetic values of our landscapes.

Evolution provides a foundation for our understanding of how the living world responds to a changing ecosystem. We rely on healthy and biodiverse ecosystems, and this biodiversity is increasingly under threat. Research within this theme helps us to understand the complexity of ecosystems and how we can act to protect, manage and restore them.

An ecosystem perspective is increasingly seen as part of the solution to global challenges, such as climate change adaptation, biodiversity loss, ensuring food security through resilient agricultural production and the reduction of greenhouse gas emissions. The importance of ecosystems and evolution is reflected in international policy strategies, such as the UN Sustainable Development Goals and the EU Biodiversity Strategy 2030.

Researchers in the ecosystems and evolution theme come from many disciplinary backgrouds encompassing the sciences, social sciences, engineering and humanities. Their research addresses questions such as: How can we better understand the complex interdependencies between humans, other animals, plants and

microorganisms? How can genetic technology better used to study biodiversity? How is shifting climate affecting plants and animals, their sources of food and their patterns of migration? How can we learn from ecosystems of the past to conserve biodiversity and ecosystems into the future?



AGRICULTURE AND FOOD	ARCHAEOLOGY	ARCHITECTURE, PLANNING	BIOLOGY AND
SCIENCE		AND ENVIRONMENTAL POLICY	ENVIRONMENTAL SCIENCE
BIOSYSTEMS AND FOOD ENGINEERING	EARTH SCIENCE	HISTORY	LAW



The Crops for the Future theme acknowledges the tremendous role crops play in our life and recognises the challenges that crop production faces in a changing climate, with a growing world population and increasingly limited resources. Addressing the future of crop production is fundamental to food security, sustainability and human health. In addition, crops are more than a source of human calories: they provide animal feed, clothing, medicinal compounds, biofuel, paper and building materials. Crops shape our landscape: more than one third of the land area worldwide is agricultural land. Crops also have a key impact on local economies and the communities that produce them.

The researchers within the Crops for the Future Theme work on the challenges associated with sustainable crop production such as disease, extreme weather events, yield, the environmental impact of growing crops and their interactions in ecological systems. We work on a wide range of species, from cereals to vegetable and alternative crops. Researchers use cutting edge technologies and experiment with growing techniques at UCD Rosemount Environmental Research Station and Lyons Farm.

Our researchers are drawn from different schools across the University and have expertise in forestry, crop, soil and plant sciences, genetics, molecular biology, archaeology, engineering, and mathematics.

By combining these areas we aim to go beyond studying plants as an isolated system, taking into account the influence they have had on human history, society and in shaping the world we live in. We are cooperating with farmers, industry partners and government agencies to ensure our research has impact. We raise awareness of plants via outreach activities and organise and participate in public events from school visits to 'pints of science'.



AGRICULTURE AND FOOD	ARCHAEOLOGY	ARCHITECTURE, PLANNING	BIOLOGY AND ENVIRONMENTAL
SCIENCE		AND ENVIRONMENTAL POLICY	SCIENCE
BIOSYSTEMS AND FOOD ENGINEERING	COMPUTER SCIENCE	ECONOMICS	POLITICS AND INTERNATIONAL RELATIONS



The sustainable communities research theme is concerned with environmental, economic, and social sustainability recognising that each of these is crucial for more sustainable development. How humans spatially and socially organise within communities has a huge influence on the environment and on the lives of people within those communities. Planning and design play a huge role in determining the sustainability and liveability of cities, towns and villages. From the local to the global, understanding communities is central to addressing challenges such as climate change, sustainable consumption and production, our relationship to nature, and human wellbeing.

There are several distinct but often intrinsically linked strands of research in the theme. Researchers within the theme look at sustainability in the built environment, the construction and use of buildings, housing, accommodation as well as the quality and sustainability of the natural environment in which the community is located and the ecosystem services provided. Other areas focus on sustainable transportation including issues of accessibility to essential services such as education, training and employment. Energy is key to sustainable communities, in particular ensuring access for all to an affordable, secure supply of renewable energy. Research on quality of life and well-being is also part of the theme, addressing a range of important topics such as physical and mental health, social inclusion and cohesion, and community resilience.

Progress in these areas requires improved governance and urban and rural regeneration, with projects on these topics an essential strand of the theme. Our research is also concerned with the needs of more vulnerable households including those from lower socio-economic groups, people with disabilities, some older households as well as black and ethnic minorities, ensuring an emphasis on Just Transitions.

Looking externally, the co-ordinators of the theme are in the process of establishing a formal link to the European Network for Housing Researchers Working Group on Sustainable Communities and other relevant international research groups.



AGRICULTURE AND FOOL SCIENCE	ARCHAEOLO		OGY	GY ARCHITECTURE, PLANNING AND ENVIRONMENTAL POLICY		BUSINESS	
EDUCATION	ENGLISH, DRAMA AND FILM		GEOGRAPHY		LAW		HISTORY
MECHANICAL AND MATERIALS ENGINEERING		POLITICS A			TH, PHYSIOTHERAPY PORTS SCEINCE	SO	CIAL POLICY, SOCIAL WORK AND SOCIAL JUSTICE



The Built and Constructed Environment theme conducts collaborative research at the interface between humans and the built environment that we have created and in which we live. Through integrated interdisciplinary research, the theme aims to find solutions to major societal challenges.

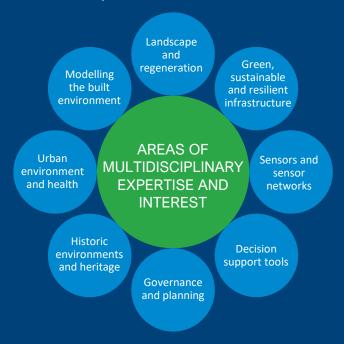
How does the built environment impact on our health, our happiness and our life chances? How can we make our cities, towns and rural landscapes smarter and more sustainable? How can our urban and rural landscapes be developed and regenerated to make them functional and stimulating places to live in whilst preserving their cultural and natural heritage? How can we make our new and existing infrastructure more resilient to natural hazards and changing climates? What are best practice planning and governance to enable these changes? What can we learn from historical and prehistorical precedents of how communities constructed their environments?

Our research has a particular focus on urban planning, sustainable design, green infrastructure, sustainable building materials, indoor environmental quality and in the analysis and optimisation of energy conversion systems. Our researchers work at the interface between civil society and policy, for example between the public and the institutions of the planning system, and model travel behaviour and transport networks in order to inform policy and behavioural economics.

The theme also has expertise in spatial data handling and in its visualisation and analysis at a

variety of scales. Through the use and development of decision support tools, sensors, advanced numerical modelling and historical perspectives in an interdisciplinary environment, researchers aim to understand and quantify risks to critical infrastructure and improve their resilience.

Long-term perspectives on the built and constructed environment show how human capacities are shaped by their environments as they shape the landscapes in which they live. The built environment extends to the materials we use and the tools we construct – the means through which we experience the world around us.



AGRICULTURE AND FOOD SCIENCE	ARCHAEOLOGY	ARCHITECTURE, PLANNING AND ENVIRONMENTAL POLICY	BIOLOGY AND ENVIRONMENTAL SCIENCE	
CIVLI ENGINEERING	CIVLI ENGINEERING EARTH SCIENCE		GEOGRAPHY	
LAW	MATHEMATICS AND STATISTICS	MECHANICAL AND MATERIALS ENGINEERING	SOCIAL POLICY, SOCIAL WORK AND SOCIAL JUSTICE	

PEOPLE, WORK, SOCIETY



The People, Work, Society theme looks to foster and support new collaborations and initiatives tackling issues including fairness and equality, decent work and working conditions, care and caring, human rights, sustainable development, just transition, governance and transparency, racial justice, migration and creating a better world.

The key to achieving these objectives is raising and answering difficult questions that address critical challenges including how do we ensure people can flourish in the transition to a sustainable, regenerative system? How do we ensure the future of work, that work is fit for purpose and that people can get decent work? How do we elevate care and caring to a valued position in society? How do we ensure racial justice fundamental to collective progress? How do we motivate and create new systems that put people at the forefront of progressive thinking and action?

The theme is founded on the ideas of social, economic and ecological progress on a sustainable basis and is multidisciplinary in scope. It crosses multiple fields including arts, business, education, humanities, law, the sciences, and social sciences. We explore this at multiple levels including the level of the individual, families, groups, teams, organisations, movements, industries, governments, multi-stakeholder initiatives, and at the societal level.



As stated in the Beveridge report (1942), 'a revolutionary moment in the world's history is a time for revolutions, not patching,' it is time to identify what is not working with our current ideas, structures and institutions and provide ideas and solutions to make them work for the good of humanity.

AGRICULTURE AND FOOD SCIENCE	ARCHAEOLOGY		ARCHITECTURE, PLANNING AND ENVIRONMENTAL POLICY		BUSINESS	
BIOSYSTEMS AND FOOD ENGINEERING		EDUCATION		GEOGRAPHY		
LAW	POLITICS AND INTERNATIONAL RELATIONS		MECHANICAL A MATERIALS ENGIN		SOCIAL POLICY, SOCIAL WORK AND SOCIAL JUSTICE	



CROSS-CUTTING DIMENSIONS

The UCD Earth Institute's dimensions indicate our four main areas of activity, cutting across all our themes.

They are our mechanism by which we share knowledge and expertise across our membership and contribute to our strategic objectives.

The dimensions reflect our core strength in excellent research and education, and our ambition to enhance our engagement and impact with all sectors of society.

- 1. Research and education
- 2. Policy and governance
- 3. Innovation and enterprise
- 4. Society and engagement

RESEARCH AND EDUCATION

The Earth Institute is at the heart of an interdisciplinary research and education ecosystem in UCD, fostering, supporting and developing the environmental and sustainability research community.

UCD is one of Europe's leading research-intensive universities and is ranked within the top 1% of higher education institutions world-wide. The state-of-the-art and unique facilities for environmental and sustainability research include the Centre for Experimental Archaeology and Material Culture, Lyons Research and Teaching Farm, the O'Brien Centre for Science, and Rosemount Environmental Research Station.

Supporting research is the core business of the UCD Earth Institute. The Institute provides the interdisciplinary space to bring together a community of researchers from across UCD's six constituent colleges, to learn and to share knowledge, to seed new ideas and initiatives, and to maximise the impact of their work. This is done in an atmosphere of collegiality and with an emphasis on supporting early career researchers.

The Institute works closely with colleagues in the University's six other research institutes and funded centres including the BiOrbic Bioeconomy SFI Research Centre and iCrag SFI Research Centre for Applied Geosciences.

UCD's unique educational offering includes the world-leading Michael Smurfit Business Graduate School, Ireland's only farm-to-fork agriculture and food department and the only higher education

institute to offer an undergraduate degree in Landscape Architecture. With the newly launched BSc Sustainability (see panel below), the University offers an interdisciplinary education to develop students equipped to face the grand societal and environmental challenges we face.



In 2020, UCD launched a **BSc in Sustainability**, the first programme of its kind in Ireland. Devised and coordinated by Institute Director Prof. Tasman Crowe (School of Biology and Environmental Science) and Prof. Jacky Croke (School of Geography), this truly interdisciplinary undergraduate course aims to give students a grounding in the key issues of sustainability across the sciences, social sciences, humanities and engineering.

POLICY AND GOVERNANCE

Our members provide evidence-based research to policymakers and to inform public debate, from the Houses of the Oireachtas to the United Nations and the World Economic Forum in Davos.

Our expertise spans complex environmental and social issues from poverty, housing, regeneration and quality of life to climate change, the bioeconomy, marine protected areas, corporate social responsibility and the management of natural resources such as peatlands.

Institute members hold or have held senior advisory roles to governments and international organisations, have contributed their expertise to the boards of Royal Irish Academy and Science Foundation Ireland as well European Commission committees on climate and sustainable finance. make Our researchers regularly expert submissions to Oireachtas Joint Committees including those on Climate Action and Housing, Local Government and Heritage, while UCD environmental lawyers have led actions against the Irish Government to revise its national climate policy in light of its legal obligations.

The Policy and Governance dimension provides a forum for sharing the wealth of expertise of our members while programmes such as the MSc in Environmental Policy are helping to produce UCD graduates with a capacity to develop environmental policy choices, analyse them critically and to provide guidance in policy implementation.



Prof. Patrick Paul Walsh (UCD School of Politics and International Relations) represented thousands of universities worldwide as a member of the UN Major Group for Science and Technology during the eight months of UN intergovernmental negotiations of the 2030 Agenda for Sustainable Development and its seventeen Sustainable Development Goals (SDGs).

Prof. Walsh is a Professor of Development Studies, directs the UCD Centre for Sustainable Development Studies and is coordinator of the UCD MSc in Sustainable Development, run in partnership with the SDG Academy.

INNOVATION AND ENTERPRISE

We work to foster creativity, innovation, social entrepreneurship and our researchers work directly with commercial partners across a range of sectors and industries.

Our researchers have established productive collaborations and partnerships with industries in the green and blue economies, provide consultancy services and have spun out companies based on their research.

The Innovation and Enterprise dimension has a particular emphasis on generating a culture of social innovation and enterprise within the Institute and University, establishing links with the not-for-profit sector in Ireland and measuring the tangible social and environmental benefits of social innovation and enterprise that have emerged from our research.

Our activities in this area include seminars showcasing leading social entrepreneurs and workshops for early stage researchers with the aim of highlighting the potential for Institute researchers to develop novel ways to address complex environmental and societal challenges through their own work.

The Institute also works closely with the Knowledge Transfer team in NovaUCD to assist our researchers in exploring the commercial potential of research outputs and to implement protection strategies, to explore commercialisation opportunities through licensing and spin-out

formation and to develop productive collaborations with industry.



Dr Philip Crowe (UCD School of Architecture, Planning and Environmental Policy & School of Civil Engineering) cofounded social enterprise Space Engagers, a research and co-design collective, which emerged from doctoral research on the EU TURAS project. Space Engagers is an SME partner on the H2020 +CityxChange project in Limerick and has worked with a number of organisations such as the Peter McVerry Trust to explore urban vacancy. Space Engagers recently authored a report for the Irish Government's Town Centre Living Initiative that is directly influencing the formation of a Town Centres First policy.

SOCIETY AND ENGAGEMENT

We strive to produce research that makes a demonstrable contribution to society and our researchers work closely with the communities most affected by their work.

Environmental and sustainability challenges are complex and interlinked with other social and economic issues. They require not only interdisciplinary approaches, but also the participation of multiple stakeholders including civil society.

Co-design and co-production can increase the relevance and usability of research for society, breaking linear traditional collaboration and participation structures by harnessing local needs and knowledge.

Our researchers work closely with the communities most affected by their work on issues including access to housing and work, community resilience to climatic change and environmental degradation, environmental justice and a just transition.

Institute initiatives such the Ecobroker platform provide new collaboration opportunities for researchers and environmental practitioners, while the Community SDG Dashboard is creating a new model for community-academic partnership in addressing the UN Sustainable Development Goals (see Appendix C).

The Institute supports our community in finding novel ways to inform and engage people in their research, through citizen science, resources for



Dr Anita McKeown (UCD Earth Institute) is an interdisciplinary artist, curator, scholar and educator. Anita works in the Iveragh peninsula, Co. Kerry, across the intersection of arts, technology and social change through arts-led education and outreach, co-designing projects with local communities exploring issues such as circular economies, waste as a resource and plastic pollution.

schools and events for the general public.

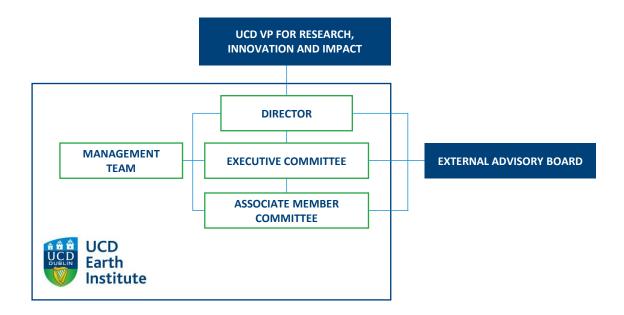
We are proud partners on the UCD Parity Studios artist-in-residence programme, and are currently working in collaboration with artist Mark Clare and Dun Laoghaire Rathdown County Council exploring biodiversity loss with local communities.



APPENDICES

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	Other events Training and career development workshops	
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Appendix A Institute structure and governance



Institute Executive Committee

The Director, Deputy Director, theme/dimension leads, chair of the Associate Member Committee and Management Team constitute the Institute Executive Committee, the primary decision-making body of the Institute which meets twice a trimester.

External Advisory Board

The Institute External Advisory Board provides strategic advice for the Earth Institute to support it in achieving its objectives; and supports and champions its activities. It combines representation from academia, state/government agencies, enterprise, and civil society/third sector.

Associate Member Committee

The Institute Associate Member Committee, established in 2020, provides strategic advice to promote and support the needs of UCD postgraduate, postdoctoral, technical and support staff involved in environmental research.

Director Tasman Crowe, School of Biology and Environmental Science

Deputy Director Emma Teeling, School of Biology and Environmental Science

Theme leadership (June 2021)

Mary Kelly Quinn, School of Biology and Environmental Science Water

Fiachra O'Loughlin, School of Civil Engineering

Frank McDermott, School of Earth Sciences Climate

Conor Sweeney, School of Mathematics and Statistics

Ecosystems and

Evolution

Jon Yearsley, School of Biology and Environmental Science Sónia Negrão, School of Biology and Environmental Science

Crops for the Future Angela Feechan, School of Agriculture and Food Science

Rainer Melzer, School of Biology and Environmental Science

Environment

Built and Constructed Shane Donohue, School of Civil Engineering

Graeme Warren, School of Archaeology

Sustainable Communities Karen Foley, School of Architecture, Planning and Environmental Policy Nessa Winston, School of Social Policy, Social Work, Social Justice

People, Work, Society Margaret Crean, School of Education

Donna Marshall, School of Business

Penelope Muzanenhamo, School of Business

Dimension leadership (June 2021)

Research and Education

Championed by the Institute Director

Policy and

Andrew Jackson, Sutherland School of Law

Governance Eoin O'Neill, School of Architecture, Planning and Environmental Policy

Innovation and **Enterprise**

Philip Crowe, School of Architecture, Planning and Environmental Policy

Ainhoa Gonzalez, School of Geography

Society and **Engagement** Championed by the Institute management team

Management team

Institute Manager: Will Fitzmaurice

Research Manager: Caitriona Devery (80% position)

Administrator: Emily Cassidy (50% position)

Associate Member Committee (June 2021) Aparajita Bannerjee, UCD College of Business; chair Katie Burns, UCD School of Agriculture and Food Science

Emily Cassidy, UCD Earth Institute

Federico Cerrone, UCD School of Biomedical and Biomolecular Science

Caitriona Devery, UCD Earth Institute

Caroline Dowling, UCD School of Biology and Environmental Science

Will Fitzmaurice, UCD Earth Institute

Shane McGuinness, UCD School of Architecture, Planning and Environmental Policy

Tine Ningal, UCD School of Geography Nick Scroxton, UCD School of Earth Science Kate de Smeth, UCD School of Geography

External Advisory Board (June 2021)

Prof. Frank Convery, UCD and Envecon, Ireland; chair

Dr Larry O'Connell, National Economic & Social Council, Ireland; deputy chair

Prof. Elizabeth Bomberg, University of Edinburgh, UK

Hans Bekker, formerly National Department of Public Works, Netherlands

Michael Ewing, formerly Environmental Pillar, Ireland

Lucas Joppa, Microsoft, USA

Dr Imelda Lambkin, Enterprise Ireland, Ireland

Prof. Marie Stenseke, University of Gothenburg, Sweden



Appendix B Membership

The UCD Earth Institute recognises the benefits of a large membership of committed environmental researchers from across the spectrum of disciplines in UCD. Many of its activities are geared towards establishing and maintaining a diverse and vibrant community of researchers, such that connections can be formed and collaborative relationships developed, enabling rapid multi-disciplinary responses to emerging challenges and opportunities.

There are three levels of membership of the Institute:

Full membership: Open to all research-active academic staff working in

environment/sustainability-related research in UCD.

Associate membership: Open to all postgraduate, postdoctoral, technical and administrative support

staff working in environment/sustainability-related research in UCD

Affiliate membership: Open to visiting academics and others not employed by UCD to recognise

contribution to the Institute

Concise application forms are available on the Institute website and are reviewed by all three members of the membership committee, usually within two weeks of submission. As of June 2021, the Institute has 138 Members, drawn from 23 of the University's 37 Schools, and an Associate Membership of over 260.

Searchable database of Institute members available at www.ucd.ie/earth/ourmembers

Listing of current members by UCD College and School

College of Arts and Humanities

School of English, Drama and Film Hannah Boast, John Brannigan, Sharae Deckard, Treasa de Loughry

School of History Jennifer Keating

College of Business Don Bredin, John Cotter, Paul Ennis, Andreas Hoepner, Donna

Marshall, Gianluca Miscione, Penelope Muzanenhamo, David

Nyaluke

College of Engineering and Architecture

School of Architecture, Planning and Environmental Policy

Finbarr Brereton, Craig Bullock, Peter Clinch, Philip Crowe, Dermot Foley, Karen Foley, Luke Kelleher, Paul Kenny, Oliver Kinnane, Mick Lennon, Orla Murphy, Eoin O'Neill, Francesco Pilla, Liana Ricci, Ellen Rowley, Paula Russell, Mark Scott, Brendan Williams

School of Biosystems and Food

Engineering

Tom Curran, Nick Holden, Sharon O'Rourke

School of Chemical and

Biopress Engineering

Don Macelroy, Ravindranathan Thampi

School of Civil Engineering Aoife Ahern, Michael Bruen, Páraic Carroll, Sarah Cotterill, Shane

Donohue, Arturo Gonzalez, Jennifer Keenahan, Daniel McCrum, Ciaran McNally, Eugene O'Brien, Fiachra O'Loughlin, John

O'Sullivan, Rui Teixeira, Yaqian Zhao

School of Electrical and Electronic Engineering

Declan Delaney, John Sheridan

School of Mechanical and Materials Engineering

Donal Finn, Pezhman Ghadimi, Alojz Ivankovic, Anita McKeown

College of Health and Agricultural Sciences

School of Agriculture and

Food Science

Julie Ballweg, Angela Feechan, Kevin McDonnell, Barry McMahon, Paul Murphy, Olaf Schmidt, Dara Stanley, Brian Tobin, Saoirse

Tracy

School of Public Health,

Physiotherapy and Sports Science

Conor Buggy

College of Science

School of Biology and Environmental Science

Tom Bolger, Jens Carlsson, Tancredi Caruso, Simone Ciuti, Grace Cott, Tasman Crowe, Fiona Doohan, Evelyn Doyle, Elke Eichelmann, John Finarelli, Tamara Hochstrasser, Joanna Kacprzyk, Adam Kane, Mary Kelly Quinn, Paul McCabe, Rainer Melzer, Sónia Negrão, Carl Ng, Bruce Osborne, Florence Renou Wilson, Emma Teeling

School of Biomolecular and

Biomedical Science

Wim Meijer, Cormac Murphy, Kevin O'Connor

School of Chemistry James Sullivan

Computer Science Michela Bertolotto, Soumyabrata Dev, Gregory O'Hare, Shen Wang

Earth Sciences Conrad Childs, Rónadh Cox, Stephen Daly, William Foster, Peter

Haughton, Sam Kelley, Tom Manzocchi, Frank McDermott, Julian

Menuge, Patrick Orr, John Walsh

Mathematics and Statistics Xuefeng Cui, Frederic Dias, James Herterich, Conor Sweeney **College of Social Sciences and Law** School of Archaeology Meriel McClatchie, Barry Molloy, Brendan O'Neill, Aidan O'Sullivan, Jessica Smyth, Graeme Warren School of Geography Christine Bonnin, Jacky Croke, Colman Gallagher, Bradley Garrett, Ainhoa Gonzalez, Gerald Mills, Niamh Moore Cherry, Tobi Morakinyo, Jonathan Turner School of Education Margaret Crean, Jennifer Symonds Sutherland School of Law Joanne Blennerhassett, Andrew Jackson, Suzanne Kingston School of Politics and Patrick Paul Walsh **International Relations** School of Social Policy, Social Work Orla Kelly, Marie Moran, Nessa Winston

and Social Justice



Appendix C Strategic Priority projects, 2018-2020

The Earth Institute Strategic Priority Support Mechanism was first launched in 2018 with the aim of stimulating interdisciplinary activity across the Institute, the University and beyond, in the area of environmental and sustainability research and its cognate disciplines. Funding up to €10,000 is awarded to 2-4 multi-disciplinary teams per annum, supporting non-research costs for targeted projects that are topical, achievable and impactful and typically run for 12-18 months.

The Mechanism is open to Institute members, associate members, affiliate members and non-members, and applications are reviewed by a panel comprising the Institute Director, two members of the Institute Executive Committee, the Institute Manager and a panel member external to the Institute.

Earth Institute Strategic Priority projects 2020

Measuring Sustainable Actions at Community Level (Community SDG Dashboard)

Community SDG Dashboard aims to create an academic-community partnership between the UCD Earth Institute researchers and the Dundrum 2030 community group to foster social engagement for systematically monitoring the implementation of the Sustainable Development Goals (SDGs) at the local level.

It seeks to develop an academic-community partnership with Dundrum 2030, to: 1) facilitate and influence national Sustainable Development Goals (SDGs) monitoring, by developing a UN-aligned local indicator set and building the capacity of communities to measure progress in the achievement of SDGs; and 2) track progress on the ground towards the achievement of SDGs. The outputs will ensure replicability in local monitoring efforts by creating an indicator-led toolkit and supporting dashboard for communities. Community SDG Dashboard will address current local data and knowledge gaps on the achievement of SDGs, feed into national and UN reporting mechanisms, and trigger similar actions in other communities.

Community SDG Dashboard is led by Ainhoa Gonzalez Del Campo (School of Geography).

Re-EcoNet: Reconstructing Ecological Networks to predict systemic crisis

Network systems provide humans with essential services but can crash dramatically, a case in point being the financial collapse in 2008. Can these crises be predicted before it is too late? The answer is yes, and the key tool is network theory. Re-EcoNet is an UCD based multidisciplinary collaboration between theoretical ecologists, physicists, geomorphologists, and biologists who use network science to discover the processes that control the stability and resilience of ecosystems. The overarching goal is the formulation of a research platform to develop large scale projects and a COST Action focusing on the detection of the onset of systemic crises in ecosystems under global change threats.

Re-EcoNet is led by Tancredi Caruso (School of Biology and Environmental Science).

Earth Institute Strategic Priority projects 2019

Centre for Irish Towns (CfIT)

The Centre for Irish Towns (CfIT) is a transdisciplinary centre for research and collaboration in UCD focused on the towns of the island of Ireland. CfIT is led by Orla Murphy and Philip Crowe who have been involved with research and advocacy relating to towns over many years, most recently through direct involvement with the Venice Biennale 2018 Free Market National Tour and the Government's Town Centre Living Initiative.

Irish towns are ideally placed to facilitate sustainable development in terms of social inclusion, environmental sustainability and economic development. However, they are generally in decline and face multiple challenges, including significant gaps in data and knowledge, a lack of investment in the physical fabric and infrastructure and a lack of coherent, evidence-based approaches to governance, policy and funding. UCD and the Earth Institute are uniquely placed to establish CfIT due to the breadth of relevant expertise and opportunities for network building and interdisciplinary activity, maximising the societal impact of research outputs, and generating public awareness and engagement.

CfIT is led by Philip Crowe (School of Architecture, Planning and Environmental Policy and School of Civil Engineering) and Orla Murphy (School of Architecture, Planning and Environmental Policy).

DIVERSICROP

Climate change impacts food security. To minimize such impact, we need to diversify crop production and to sustainably produce nutritious food. We believe that underutilised crops produced in Europe have the potential to supply key nutrients and improve diets and risk of diet-related diseases.

DIVERSICROP is a UCD consortium that aims to: 1) encourage partners from strategic areas to explore such changes, namely from crop sciences, culture and society, nutritional impact and policy-making; and 2) Develop and submit a COST action focused on diversification of crop production in Europe.

DIVERSICROP is led by Meriel McClatchie (UCD School of Archaeology) and Sónia Negrão (UCD School of Biology and Environmental Science).

HempHub

Cannabis sativa (hemp and marijuana) is an extremely versatile plant that has the potential to increase the sustainability and resource efficiency of modern agriculture. At the same time, it is a high-value yet controversial crop used to produce medicinal compounds.

HempHub is working to establish a knowledge hub focused on hemp research at UCD and other Irish institutions. We aim to establish a cross-disciplinary group of researchers that jointly focuses on investigating the environmental, genetic, pharmacological and engineering properties of hemp as well as the societal implications of its use.

We use workshops to exchange ideas and foster interactions between researchers, invite internationally recognised hemp experts to give talks, and foster collaborations with other European and international researchers by lab visits. The research network established by HempHub will form the basis of a COST action proposal.

HempHub is led by Rainer Melzer and Antoinette Perry (both UCD School of Biology and Environmental Science).

Earth Institute Strategic Priority projects 2018

Climate-Resilient Agri-Environmental Systems (CRAES)

www.ucd.ie/craes

Agricultural systems are large contributors to greenhouse gas production and environmental pollution. An integrated approach is required for mitigation and the creation of climate-smart and environment-friendly sustainable agricultural systems.

The Climate-Resilient Agri-Environmental Systems (CRAES) group was formed to provide the critical mass required to address the challenges by harnessing UCD's multidisciplinary expertise through integration from broad spectrum of disciplines and engaging with national and international collaborators, stakeholders and industry to build partnerships. CRAES works to improve understanding of agricultural systems, their role in climate change and environmental degradation; and the influence of management practices and climate change on the systems themselves and the wider environment to make productive and profitable ones but also sustainable at local and global scales.

In October 2020, CRAES hosted the International Symposium on Climate Resilient Agri Environmental Systems, with an opening address from Eamon Ryan TD, Minister for Minister for the Environment, Climate, Communications and Transport.

CRAES is led by Ibrahim Khalil, UCD School of Biology and Environmental Science

ECOBROKER: co-producing knowledge between practitioners and researchers to address complex societal problems

ecobroker.ucd.ie

ECOBROKER aims to develop a knowledge exchange platform and related communication tools under the UNESCO Man and the Biosphere Programme (MAB) programme to effectively link research with practice in environmental policy, management and governance. The aim of the platform is to create a systematic and accessible means for practitioners and researchers to exchange knowledge on priority questions of societal importance which will feed into best practices, research and teaching. By improving communication between stakeholders, the platform will support development of interdisciplinary activity and strengthen and create connections which help maximise impact of the research outputs and tackle complex challenges and initiatives such the Sustainable Development Goals.

Ecobroker is led by Tamara Hochstrasser, UCD School of Biology and Environmental Science..



Appendix D Small Responsive Funding Scheme, funded projects 2018- 2020

The Earth Institute Small Responsive Funding Scheme was introduced in autumn 2018 and provides small awards to Earth Institute Members, Associate Members and Affiliate Members for activities that are beneficial to the applicant and wider Institute community, including contributions to the costs for travel of the applicant, a team member or a visitor. The scheme complements the existing Institute Strategic Priority Support Mechanism, providing regular, smaller awards throughout the year, with rapid decisions to accommodate opportunities as they arise.

The scheme provides support of €200-700 for activities where other funding is either not available or where the timing of funding calls do not fit with the timeline of the proposed activity. Applications are reviewed by two members of the Institute Executive Committee and the Institute Manager.

Name	Status	School/Other	Activity and outcomes
Dr Bruno de Andrade	Associate Member	School of Architecture, Planning and Environmental Policy	Support for travel expenses for month long visit to UCD of Prof. Carlos Queiroz, Geography Department at the Federal University of Espírito Santo (UFES), Brazil. While in Dublin, Prof. Queiroz delivered two lectures, ran two geogames workshops, and hosted a Minecraft outreach event for 9-12 year olds in Santry, Dublin.
Dr Nicole Beisiegel	Associate Member	School of Mathematics and Statistics	Support for travel expenses for research visit to the Department of Meteorology at the University of Reading, UK (Host: Prof Paul D Williams) to work on the numerical software Quagmire v1.3. The collaboration resulted in software that can be used to simulate a multi-layer rotating annulus, and a still ongoing collaboration. For the future it is envisioned that this software will be used as a basis for a scientific publication.
Conor Bracken	Associate Member	School of Agriculture and Food Science	Support travel costs for visit to the Institute of Plant Ecology at Justus Liebig University (JLU), Giessen, Germany to provide training on a new N2O isotopomer analytical technique and present El research outputs while building collaborative contacts in the area of greenhouse gas monitoring and N isotope studies.
Katherine Burns	Associate Member	School of Agriculture and Food Science	Support for a science communication event, "Get Buzzed about Bees!" The event/workshop has been organised in collaboration with the Stanley Ecology Lab and Cultivate, an Irish NGO, and was scheduled to take place at Electric Picnic 2020 as part of the Global Green Eco-Village, but has been postponed for a year.
Assoc. Prof. Jens Carlsson	Member	School of Biology and Environmental Science	Support for travel costs for visit to Namibia to assess two field research stations for prospective new collaboration between UCD and university contacts in Namibia.
Dr Simone Ciuti	Member	School of Biology and Environmental Science	Sponsorship and support of the EuroDEER XI international workshop, Dublin, June. The workshop generated in two high impact publications and led to a successful Department of Agriculture, Food and Marine funding application.



Name	Status	School/Other	Activity and outcomes
Dr Pezhman	Member	School of Materials and	Sponsorship of 2020 International Conference on Resource Sustainability
Ghadimi		Mechanical Engineering	(icRS), planned to be held in University College Dublin and chaired by Dr
			Ghadimi. The conference has been postponed to 2021.
Sophia Henegan	Associate Member	UCD Biological Society	Guest lecture at the UCD Biological Society by Dr Beth Shapiro, University
			of California, Santa Cruz
Sanni Hintikka	Associate Member	School of Biology and	Support for travel costs of a working visit to Pwani University (PU) in Kenya,
		Environmental Science	with whom UCD has a Memorandum of Agreement (MoA). Visit to collect
			marine environmental (e)DNA samples in Watamu National Marine Park
			(Kenya) for metabarcoding.
Clifton Lewis	Associate Member	UCD Biological Society	Sponsorship of UCD Women in Biology event, March 2019.
Cliodhna Martin	Associate Member	School of Geography/	Support for travel expenses research visit to Melbourne Social Equity
		School of Education	Institute (University of Melbourne) and develop research links related to
			interdisciplinary approaches to child-friendly cities.
Dr Penelope	Member	School of Business	Support for travel expenses of guest lecturer at 'Place, Belongingness, and
Muzanenhamo			International Entrepreneurship in Africa: Impact on Sustainable
			Development' workshop hosted in UCD.
Dr Fiachra	Member	School of Civil	Support for travel expenses to the University of Strathclyde to prepare an
O'Loughlin		Engineering	EPSRC-SFI research proposal in collaboration with researchers from
			University of Newcastle looking at the occurrence of compound event in
			sub-seasonal forecasts with the aim of forecasting them.
Dr Saoirse Tracy	Member	School of Agriculture and	Contribution towards membership fees for UCD to continue to be a
		Food Science	member of the International Plant Phenotyping Network (IPPN)., 2018 and
			2019. Membership has strengthened UCD ties with Teagasc and Trinity
			College Dublin, and has three successful applications to funders including
			Science Foundation Ireland and the Irish Research Council, with a number
			of further applications pending.
Dr Sharon O'Rourke	Member	School of Biosystems and	Sponsorship of SoilFest 2019 event relaunching Soil Science Society of
		Food Engineering	Ireland. Public event in Dublin city centre with contributions from scientists
			and artists who work with soil.
Alison O'Reilly	Associate Member	School of Agriculture and	Support for attendance at Linear Mixed Effects Models and GLMM with R-
		Food Science	INLA event hosted by Highland Statistics Ltd in the University of Ghent.
Aisling Reilly	Associate Member	School of Agriculture and	Support for travel expenses to Lublin, Poland, to complete screening
		Food Science	experiments with colleagues at the Institute of Plant Genetics, Breeding
			and Biotechnology at the University of Life Sciences.
Dr Anna Tiley	Associate Member	School of Agriculture and	Support for attendance at chronobiology meeting at MRC Laboratory of
		Food Science	Molecular Biology, UK, to develop collaborations.
Prof. Graeme	Member	School of Archaeology	Support for costs of fieldtrip as part of workshop to develop collaborative
Warren		· .	international and interdisciplinary projects examining the origins of
			prehistoric quarrying in Mesolithic and Neolithic Europe, hosted by UCD
			School of Archaeology. Resulting from this, a collaboration with University
			of Stavanger examining the social impact of the last major tsunami in
			Northern Europe on hunter-gatherer communities in Norway and Scotland
			received 4 years of funding from the Norwegian Research Council.
Dr Hannah White	Associate Member	School of Biology and	Sponsorship of the annual Soapbox Science event in Dublin, a public
2		Environmental Science	outreach platform that promotes women working in science and the
		Environmental science	research they do. The 2020 event moved online as result of Covid-19.
			research they do. The 2020 event inloved offline as result of Covid-19.



Appendix E Activities and Events, 2018-2020

The Institute organises, supports and sponsors a range of activities, including workshops linked to Institute research themes, seminars, lectures and outreach events, as well as a programme of training and career development sessions.

E1 Thematic workshops

Organised over the course of 2018-2020 were a series of thematic workshops to bring together researchers from across the University who are working on complementary areas to identify potential collaborations and funding opportunities. It is planned that these will continue to run once a year.

Date	Theme	Host
25 Sep 2018	Improving interdisciplinarity to better capture	Tasman Crowe, director, Earth Institute
	the human perspective	
12 Dec 2018	Interdisciplinary environmental research at UCD	Tasman Crowe, director, Earth Institute
9 Apr 2019	Water	Mary Kelly- Quinn, School of Biology and Environmental Science; Fiachra
		O'Loughlin, School of Civil Engineering
11 Apr 2019	Ecosystems and Evolution	Olaf Schmidt, School of Agriculture and Food Science; Jon Yearsley,
		School of Biology and Environmental Science
25 Apr 2019	Sustainable Communities	Karen Foley, School of Architecture, Planning and Environmental Policy;
		Nessa Winston, School of Social Policy, Social Work and Social Justice
5 July 2019	Climate	Frank McDermott, School of Earth Sciences; Conor Sweeney, School of
		Mathematics and Statistics
15 Oct 2019	Policy and Governance	Andrew Jackson, School of Law; Eoin O'Neill, School of Architecture,
		Planning and Environmental Policy
10 Dec 2020	Sustainable Communities	Karen Foley, School of Architecture, Planning and Environmental Policy;
		Nessa Winston, School of Social Policy, Social Work and Social Justice
11 Dec 2020	Climate	Frank McDermott, School of Earth Sciences; Conor Sweeney, School of
		Mathematics and Statistics
14 Dec 2020	Ecosystems and Evolution	Sónia Negrão and Jon Yearsley, both School of Biology and Environmental
		Science
15 Dec 2020	Water	Mary Kelly- Quinn, School of Biology and Environmental Science; Fiachra
		O'Loughlin, School of Civil Engineering
16 Dec 2020	Built and Constructed Environment	Shane Donohue, School of Civil Engineering; Graeme Warren, School of
		Archaeology
17 Dec 2020	Crops for the Future	Angela Feechan, School of Agriculture and Food Science; Rainer Melzer,
		School of Biology and Environmental Science

E2 UN Sustainable Development Goal Research Seminar Series

One of the flagship activities for 2019 and into early 2020 was a seminar series focusing on UCD research that is contributing to the UN Sustainable Development Goals, delivered with support from the UCD College of Social Sciences and Law, the UCD Institute for Discovery and UCD School of Politics and International Relations.

Each of the Goals was addressed in turn, with contributions from three UCD researchers from different disciplines as well as an external speaker with relevant interests, drawn from other academic institutions, government, industry and charities to forge new links in tackling the Goals.

The seminars have provided an opportunity for the Institute to collaborate with a range of Schools, Colleges and Research Centres from across the University and take a leading role in aligning UCD's activities with the Goals.

Eight of the seminars were followed by an additional workshop in which participants explored opportunities for collaboration and funding linked to the Goal.

Date	#	Goal title	Co-host	Speakers
12 Feb 2019	1	End poverty in all its forms	UCD College of	Dr Tricia Keilthy, Society of St Vincent de Paul; Dr Ronan McDermott,
		everywhere	Social Sciences &	UCD School of Agriculture and Food Science; Prof. Patrick Paul Walsh,
			Law	School of Politics & International Relations (chair); Assoc. Prof. Nessa
				Winston, UCD School of Social Policy, Social Work & Social Justice
19 Feb 2019	2	End hunger, achieve food	UCD Institute of	Prof. Jim Kinsella, School of Agriculture and Food Science; Prof. Dolores
		security and improved	Food & Health	O'Riordan, UCD VP for Global Engagement, director, UCD Institute of
		nutrition and promote		Food & Health (chair); Dr Aifric O'Sullivan, School of Agriculture and
		sustainable agriculture		Food Science; Paul Wagstaff, Self Help Africa
26 Feb 2019	3	Ensure healthy lives and	UCD Conway	Dr Jakub Gajewski, Royal College of Surgeons in Ireland; Dr Virginie
		promote well-being for all	Institute	Gautier, UCD Centre for Research in Infectious Diseases; Prof. Catherine
		ages		Godson, UCD School of Medicine (chair); Ms Helen Henegan, St
				Vincent's University Hospital
12 Mar 2019	4	Ensure inclusive and equitable	UCD School of	Dr Conor Buggy, School of Public Health, Physiotherapy & Sports
		quality education and	Education	Science; Dr Stephan Koeppe, School of Social Policy, Social Justice &
		promote lifelong learning		Social Work; Prof. Ciaran Sugrue, School of Education; Dr Jennifer
		opportunities for all		Symonds, School of Education
28 Mar 2019	5	Achieve gender equality and	UCD Centre for	Ursula Barry, UCD Centre for Gender, Feminisms and Sexualities (chair);
		empower all women and girls	Gender, Feminisms	Dr Niamh Kingston, School of Agriculture and Food Science; Dr Monica
			and Sexualities	O'Connor, independent academic/activist; Prof. Pat O'Connor,
				University of Limerick
9 April 2019	6	Ensure availability and		Charlie Coakley, Irish Water; Assoc. Prof. Mary Kelly-Quinn, School of
		sustainable management of		Biology & Environmental Science; Prof. Wim Meijer, School of
		water and sanitation for all		Biomolecular & Biomedical Sciences; Niall Roche, WASH



Date	#	Goal title	Co-host	Speakers
23 April 2019	7	Ensure access to affordable,	UCD Energy	Dr Maeve Boland, School of Earth Sciences (chair), Prof. Murray
		reliable, sustainable and	Institute; iCRAG SFI	Hitzman, iCRAG SFI Centre; Dr James McAteer, Gavin & Doherty
		modern energy for all	Research Centre	Geosolutions; Dr Geertje Schuitema, School of Business
14 May 2019	8	Promote sustained, inclusive	UCD Geary Institute	Dr Micheal Collins, School of Social Policy, Social Work & Social Justice;
		and sustainable economic	for Public Policy	Prof. Roland Erne, School of Business; Elish Kelly, Economic and Social
		growth, full and productive		Research Institute; Prof. Philip O'Connell, director, UCD Geary Institute
		employment and decent work		for Public Policy (chair)
		for all		
22 Oct 2019	9	Build resilient infrastructure,		Dr Shane Donohue, School of Civil Engineering (chair); Pat Maher,
		promote inclusive and		Transport Infrastructure Ireland; Dr Beatriz Martinez-Pastor, School of
		sustainable industrialization		Civil Engineering; Prof. Aisling Reynolds-Feighan, School of Economics
		and foster innovation		
8 Oct 2019	10	Reduce inequality within and		Dr Mathew Creighton, School of Sociology; Dr Hasheem Mannan,
		among countries		School of Nursing, Midwifery and Health Systems; Dr Emily Mark-
				Fitzgerald, School of Art History and Cultural Policy; Prof. Colin Scott,
				Dean of College of Social Sciences and Law, UCD VP for Equality,
				Diversity & Inclusion
30 Jan 2020	11	Make cities and human		Dr Karen Foley, School of Architecture, Planning and Environmental
		settlements inclusive, safe,		Policy; Alison Harvey, Heritage Council; Prof. Gerald Mills, School of
		resilient and sustainable		Geography; Prof. Michelle Norris, School of Social Policy, Social Work
				and Social Justice; Assoc Prof. Nessa Winston, School of Social Policy,
				Social Work and Social Justice
16 Oct 2019	12	Ensure sustainable	BEACON SFI	Prof. Kevin O'Connor, School of Biomolecular and Biomedical Science,
		consumption and production	Bioeconomy	director, BEACON SFI Bioeconomy Research Centre (chair)
		patterns	Research Centre	
28 Nov 2019	13	Take urgent action to combat		Barry Andrews, MEP; Dr Andrew Jackson, School of Law (chair); Aideen
		climate change and its		O Dochartaigh, School of Business; Sadhbh O'Neill, Climate Case Ireland
		impacts		
18 Nov 2019	14	Conserve and sustainably use		Dr Jens Carlsson, School of Biology and Environmental Science; Prof.
		the oceans, seas and marines		Tasman Crowe School of Biology and Environmental Science (chair); Dr
		resources for sustainable		Anita McKeown, School of Materials and Mechanical Engineering; Ella
		development		McSweeney, RTE/the Guardian
26 Nov 2019	15	Protect, restore and promote		Prof. Tom Bolger, School of Biology and Environmental Science; Dr
		sustainable use of terrestrial		Adam Kane School of Biology and Environmental Science; Prof. Suzanne
		ecosystems, sustainably		Kingston, School of Law; Dr Jon Yearsley School of Biology and
		manage forests, combat		Environmental Science
		desertification, and halt and		
		reverse land degradation and		
		halt biodiversity loss		
20 Nov 2019	16	Promote peaceful and	UCD School of	David Donoghue, former Permanent Representative of Ireland to the
	-	inclusive societies for	Politics and	UN; Prof. Colin Scott, Dean of College of Social Sciences and Law, UCD
		sustainable development,	International	VP for Equality, Diversity and Inclusion; Dr Dawn Walsh, School of
		provide access to justice for	Relations	Politics & International Relations; Prof. Patrick Paul Walsh, School of
		all and build effective,		Politics & International Relations (chair); Sinead Walsh, EU Ambassador
		accountable and inclusive		to South Sudan
		institutions at all levels		to South Saudit
		mstitutions at all levels		

E3 Other seminars, lectures and workshops

A Oct 2019 UCD EU Research Office Horizon 2020 funding opportunities in Climate and Food 7 Nov 2019 UCD Research Institutes Climate Change, Literature, and the Future of Memory; Dr Rick Crownshaw, Goldsmiths College, UK Tipping points in the climate system and the economics of climate change; Dr Thomas Stoerk, LSE, UK 28 Nov 2019 Prof. Kevin O'Connor, School of Biomolecular and Biomedical Science 4 Dec 2019 UCD Energy Institute UCD Smart Cities and Communities Symposium 5 Dec 2019 UCD Energy Institute UCD Smart Cities and Communities Symposium 5 Dec 2019 UCD Centre for Irish Towns Strategic Carbon taxes: a powerful tool in the fight against climate change; Prof. Thomas Sterner, Gothenburg University, Sweden 16 Jan 2020 UCD Centre for Irish Towns Strategic Priority Project Earth Institute Showcase 2020: Workshop: Building a research community for Irish Towns 16 Jan 2020 Ecobroker Strategic Priority Project Earth Institute Showcase 2020: Workshop: Working with local government and practitioners 16 Jan 2020 HempHub Strategic Priority Project Earth Institute Showcase 2020: Workshop: Cannabis Sativa, the plant with a thousand faces 16 Jan 2020 UCD School of Physics Earth Institute Showcase 2020: Workshop: Using Earth Observation satellite data 26 Feb 2020 UCD Geary Institute Plotting the Future public lecture series: Climate change, inequality and sustainable wellbeing, Ian Gough, London School of Economics 8 Mar 2020 Workshop: Making a Difference: Developing social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with talk from Ruairi McKiernan, social enterprise opportunities from your research, with	Date	Co-organiser	Title; speaker
Climate Change: The Empirical Strikes Back; Else Berit Eikeland, Norwegian Ambassador to Ireland; Michael John O'Mahony, An Taisce; Peter Clinch, UCD School of Architecture, Planning and Environmental Policy; Conor Sweeney, UCD School of Mathematics and Statistics 23 Oct 2018 UCD School of Geography Strategic Environmental Policy; Conor Sweeney, UCD School of Mathematics and Statistics 13 Feb 2019 UCD Centre for Business and Society Gender Quotas: the Holy Grail to Smashing the Glass Ceilling? 11 Apr 2019 UCD School of Biology and Environmental Science Gender Quotas: the Holy Grail to Smashing the Glass Ceilling? 12 VCD School of Biology and Environmental Science Horizon 2020 funding opportunities in Climate and Food Climate Change; Dr Jane Delany, Newcastle University, UK 12 Nov 2019 UCD Experimental Policy Climate Change, Literature, and the Future of Memory; Dr Rick Crownshaw, Goldsmiths College, UK 13 Feb 2019 Prof. Kevin O'Connor, School of Biomolecular and Biomedical Science 14 Dec 2019 UCD Environmental Policy Tipping points in the climate system and the economics of climate change; Dr Thomas Stoerk, LSE, UK 15 Dec 2019 UCD Environmental Policy Carbon taxes: a powerful tool in the fight against climate change; Prof. Thomas Sterner, Gothenburg University, Sweden 16 Jan 2020 UCD Centre for Irish Towns Strategic Priority Project Earth Institute Showcase 2020: Workshop: Working with local government and practitioners 16 Jan 2020 HempHub Strategic Priority Project Earth Institute Showcase 2020: Workshop: Using Earth Observation satellite data 16 Jan 2020 UCD School of Physics Earth Institute Showcase 2020: Workshop: Using Earth Observation satellite data 16 Plotting the Future public lecture series: Climate change, Inequality and sustainable wellbeing, Ian Gough, London School of Econoping Social enterprise opportunities from your research, with talk from Ruain' McKiernan, social enterprise opportunities from your research, with talk from Ruain' McKiernan, social enterprise opportunities from your	16 Apr 2018		End Plastic Pollution; Tanja Narancic, School of Biomolecular and Biomedical Sciences,
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Public lecture: Prof. Stephen Heard, University of New Brunswick, chaired by Rainer Melzer, School of Biology and Environmental Science 7 May 2020 Workshop: Deirdre Mortell, CEO, Social Innovation Fund Ireland, hosted by Philip Crowe, School of Architecture, Planning and Environmental Policy, and Ainhoa Gonzalez, School			· · · · · · · · · · · · · · · · · · ·
7 May 2020 Workshop: Deirdre Mortell, CEO, Social Innovation Fund Ireland, hosted by Philip Crowe, School of Architecture, Planning and Environmental Policy, and Ainhoa Gonzalez, School	24 Apr 2020		
7 May 2020 Workshop: Deirdre Mortell, CEO, Social Innovation Fund Ireland, hosted by Philip Crowe, School of Architecture, Planning and Environmental Policy, and Ainhoa Gonzalez, School	•		
School of Architecture, Planning and Environmental Policy, and Ainhoa Gonzalez, School	7 May 2020		Workshop: Deirdre Mortell, CEO, Social Innovation Fund Ireland, hosted by Philip Crowe,
	•		
			of Geography

Date	Co-organiser	Title; speaker
14 May 2020	UCD School of Geography	Public lecture: Prof. Danny Dorling, University of Oxford, UK, and panel discussion
		chaired by Jacky Croke, School of Geography, Larry O'Donnell, National Economic and
		Social Council, Bradley Garrett, School of Geography, Marie Moran, School of Social
		Policy, Social Work and Social Justice
16 Jun 2020	UCD Institute for Discovery	Zoom for Thought: Pádraic Fogarty, Irish Wildlife Trust, interviewed by Patricia Maguire,
		Institute for Discovery
13 Aug 2020	UCD School of Geography	Book launch: Bunker, Bradley Garrett, School of Geography, and panel discussion with
		Kezia Barker, Birkbeck College University of London, Ian Klinke, University of Oxford,
		chaired by Jacky Croke, School of Geography
16 Sept 2020	Fulbright Programme	Fulbright Programme information session, panel discussion with Tom Curran, School of
		Biosystems and Food Engineering, Patricia Kenny, School of Archaeology, Treasa de
		Loughry, School of English, Drama and Film, Francesco Pilla, School of Architecture,
		Planning and Environmental Policy
10 Nov 2020	UCD Research Office	IRC COALESCE Scheme, including panel discussion with Tasman Crowe, School of Biology
		and Environmental Science, Niamh Moore Cherry, School of Geography, Craig Bullock,
		School of Architecture, Planning and Environmental Policy
19 Nov 2020		Environment and Sustainability in the Media, panel discussion with Kayle Crosson, Green
		News, John Gibbons, contributor to RTE and Irish Times, Caroline O'Doherty, Irish
		Independent, Sylvia Thompson, Irish Times
8 Dec 2020	EU Office, UCD Research	Pathways to Horizon Europe – funding workshop. Including panel discussion with
		Tasman Crowe, School of Biology and Environmental Science, Karen Foley, Landscape
		Architecture, School of Architecture, Planning and Environmental Policy, Nick Holden,
		School of Biosystems and Food Engineering, Francesco Pilla School of Architecture,
		Planning and Environmental Policy
17 Dec 2020	UCD Research Institutes, UCD Biological	Public lecture and panel discussion: Prof. Richard Thompson, University of Plymouth,
	Society	(panel) Noreen O'Meara, University of Surrey, Tancredi Caruso, School of Biology and
	•	Environmental Science, Treasa de Loughry, School of English, Drama and Film

E4 Institute coffee mornings

A staple of the Institute's activities is a weekly coffee morning which brings the membership together in an informal setting over tea and cake, with a short presentation each week from an Institute member or guest speaker, and provides an opportunity for members to meet and make new connections. The coffee mornings attract a regular attendance of 40-50 people and have been central to developing a strong sense of community in the Institute.

Date	Speaker(s)
16 Nov 2017	Jon Yearsley, School of Biology and Environmental Science
23 Nov 2017	Philip Crowe, Aoife Corcoran, SpaceEngagers
6 Dec 2017	Finbarr Brereton, Eoin O'Neill, School of Architecture, Planning and Environmental Policy
25 Jan 2018	Tamara Hochstrasser, School of Biology and Environmental Science
30 Jan 2018	Ainhoa Gonzalez, School of Geography

Date	Speaker(s)
8 Feb 2018	Andrew Parnell, School of Mathematics and Statistics
22 Feb 2018	Kevin O'Connor, School of Biomolecular and Biomedical Sciences, BiOrbic Bioeconomy Research Centre
8 Mar 2018	Kevin McDonnell, School of Agriculture and Food Science
15 Mar 2018	Angela Feechan, School of Agriculture and Food Science
29 Mar 2018	Lars Jermiin, Australian National University
5 Apr 2018	Graeme Warren, School of Archaeology
12 Apr 2018	Bruce Osborne, School of Biology and Environmental Science
26 Apr 2018	Frederic Dias, School of Mathematics and Statistics
3 May 2018	Paddy Orr, School of Earth Science
10 May 2018	John Brannigan, Frances Ryfield, School of English, Drama and Film; Tasman Crowe, David Cabana, School of Biology and
	Environmental Science
17 May 2018	Niamh Moore Cherry, School of Geography
31 May 2018	Conor Sweeney, School of Mathematics and Statistics
7 June 2018	Jens Carlsson, School of Biology and Environmental Science
21 June 2018	Shane Donohue, Civil Engineering
28 June 2018	Jon Yearsley, School of Biology and Environmental Science
6 Sep 2018	Tasman Crowe, director, Earth Institute
13 Sep 2018	Fiachra O'Loughlin, School of Civil Engineering
20 Sep 2018	Aggie Georgopoulou, School of Earth Science
27 Sep 2018	Adam Kane, School of Biology and Environmental Science
4 Oct 2018	Brian Tobin, School of Agriculture and Food Science
11 Oct 2018	James Herterich, School of Mathematics and Statistics
18 Oct 2018	Wim Meijer, School of Biomolecular and Biomedical Science
25 Oct 2018	Barry McMahon, School of Agriculture and Food Science
1 Nov 2018	Philip Crowe, Aoife Corcoran, Ecostructure project
8 Nov 2018	Saoirse Tracy, School of Agriculture and Food Science
15 Nov 2018	Paul McCabe, School of Biology and Environmental Science
22 Nov 2018	Sónia Negrão, School of Biology and Environmental Science
29 Nov 2018	Patricia Maguire, UCD Institute for Discovery
6 Dec 2018	Ciaran McNally, School of Civil Engineering
24 Jan 2019	Dara Stanley, School of Agriculture and Food Science
31 Jan 2019	Meriel McClatchie, School of Archaeology
7 Feb 2019	Rónadh Cox, Visiting Professor, Williams College, USA
21 Feb 2019	Nicole Beisiegel, School of Mathematics and Statistics & Anna Tiley, School of Agriculture and Food Science
28 Feb 2019	Gerald Mills, School of Geography
7 Mar 2019	Karen Foley, School of Architecture, Planning and Environmental Policy
14 Mar 2019	Ronan Wall, School of Physics
21 Mar 2019	Mary Kelly-Quinn, School of Biology & Environmental Science
28 Mar 2019	Jacky Croke, School of Geography
4 Apr 2019	Aideen O'Dochartaigh & Orlagh Reynolds, School of Business
18 Apr 2019	Rainer Melzer, School of Biology & Environmental Science
25 Apr 2019	Jessica Smyth, School of Archaeology
2 May 2019	Emma Teeling, School of Biology & Environmental Science
9 May 2019	Frank McDermott, School of Earth Science
16 May 2019	Paul Murphy, School of Agriculture and Food Science
23 May 2019	Simone Ciuti , School of Biology & Environmental Science
12 Sep 2019	Anita McKeown, School of Material and Mechanical Engineering
19 Sep 2019	Julie Ballweg, School of Agriculture and Food Science
26 Sep 2019	Penelope Muzanenhamo, School of Business

Date	Speaker(s)
3 Oct 2019	Sharon O'Rourke, School of Biosystems and Food Engineering
10 Oct 2019	Joanna Kacpryzk, School of Biology & Environmental Science
17 Oct 2019	Barry Molloy, School of Archaeology
24 Oct 2019	Sam Kelley, School of Earth Science
31 Oct 2019	Paula Russell, School of Architecture, Planning and Environmental Policy
7 Nov 2019	Tom Curran, School of Biosystems and Food Engineering
14 Nov 2019	Grace Cott, School of Biology & Environmental Science
21 Nov 2019	Mick Lennon, School of Architecture, Planning and Environmental Policy
28 Nov 2019	James Sullivan, School of Chemistry
23 Jan 2020	Bruno de Andrade, School of Architecture, Planning and Environmental Policy
30 Jan 2020	Pezhman Ghadimi, School of Mechanical and Materials Engineering
6 Feb 2020	Oliver Kinnane, School of Architecture, Planning and Environmental Policy
13 Feb 2020	Florence Renou-Wilson, School of Biology and Environmental Science
20 Feb 2020	Peter Haughton, School of Earth Sciences
27 Feb 2020	Carlos Queiroz, Universidade Federal do Espírito Santo – UFES, Brazil
5 Mar 2020	Fatemeh Golpayegani, School of Computer Science
12 Mar 2020	Soumyabrata Dev, School of Computer Science
19 Mar 2020	Tasman Crowe, School of Biology and Environmental Science
26 Mar 2020	Barry McMahon, School of Agriculture and Food Science
2 Apr 2020	Orla Murphy, School of Architecture, Planning and Environmental Policy
9 Apr 2020	Liana Ricci, School of Architecture, Planning and Environmental Policy
16 Apr 2020	Graeme Warren, School of Archaeology
23 Apr 2020	Tobi Morakinyo, School of Geography
30 Apr 2020	Kevin O'Connor, School Biomolecular and Biomedical Sciences
7 May 2020	Tancredi Caruso, School of Biology and Environmental Science
21 May 2020	Craig Bullock, School of Architecture, Planning and Environmental Policy
4 June 2020	Elke Eichelmann, School of Biology and Environmental Science
25 June 2020	Paddy Orr, School of Earth Sciences
9 July 2020	Andreas Hoepner, School of Business
23 July 2020	Fiona Doohan, School of Biology and Environmental Science
20 Aug 2020	Patrick Paul Walsh, School of Politics and International Relations
24 Sept 2020	David Nyaluke, School of Business
1 Oct 2020	Tancredi Caruso, School of Biology and Environmental Science
8 Oct 2020	Mark Clare, Earth Institute artist-in-residence
15 Oct 2020	Sarah Cotteril, School of Civil Engineering I
22 Oct 2020	Philip Crowe and Orla Murphy, School of Architecture, Planning and Environmental Policy
29 Oct 2020	John Walsh, School of Earth Sciences
5 Nov 2020	Ainhoa Gonzalez and Lyn Hagin Meade
12 Nov 2020	Meriel McClatchie, School of Archaeology, and Sonia Negrao School of Biology and Environmental Science
19 Nov 2020	Md Salauddin, School of Civil Engineering
26 Nov 2020	Anne Murray, Dun Laoighaire Rathdown County Council
3 Dec 2020	Brendan O'Neill, School of Archaeology

E5 Other events

Date	Co-host	Title
22 Mar 2018		World Water Day Flash Talks
17 Apr 2018	UCD Schools of Agriculture and Food Science;	Campus Walk: Trees of Belfield
	Architecture, Planning and Environmental Policy	
18 Apr 2018	UCD Schools of Biology and Environmental Science;	Campus Walk: Weather and Climate: Past, present and future
	Mathematics and Statistics	
18 Apr 2018		Earth Week Table Quiz
19 Apr 2018	UCD School of Archaeology	Campus Walk: UCD Centre for Experimental Archaeology and Material
		Culture
24 May 2018	Trinity College Dublin, UCD Estates	Campus Walk: World Bee Day
9 June 2018	UCD Schools of Agriculture and Food Science;	Campus Walks: UCD Festival
	Archaeology; Architecture, Planning and	
	Environmental Policy	
5 July 2018		Earth Institute summer party
23 July 2018	Dun Laoghaire Rathdown County Council, Dublin Bay	Marine Research Expo and Beach Clean, Killiney
	Biosphere	
28 Aug 2018	UCD School of Archaeology	Glendalough Archaeological Dig visit
10 Oct 2018	Norwegian Embassy, An Taisce, UCD Institute for	Arctic climate change photography exhibition launch
	Discovery	
6 Dec 2018		Earth Institute Christmas party
8 Apr 2019	UCD School of Biology and Environmental Science	Campus Walk: The birds of Belfield
9 Apr 2019	Environmental Protection Agency	Story of Your Stuff short film competition for secondary school students
		national final
10 Apr 2019	UCD Centre for Experimental Archaeology & Material	Campus Walk: Ancient and Modern Sustainable Technologies
	Culture; UCD Sustainable Energy Community	
12 Apr 2019	Environmental Science Association of Ireland	UCD Environmental Undergraduate Researcher of the Year poster
		competition
20 May 2019	UCD School of Agriculture and Food Science	Campus Walk: World Bee Day: Wild pollinators, honey bees and the All
		Ireland Pollinator Plan at UCD
20 June 2019		Earth Institute summer party
12 Dec 2019		Earth Institute Christmas party
12 Feb 2020	Coastal Communities Adapting Together project	UCD GeoGames Group workshop
26 Feb 2020	Coastal Communities Adapting Together project	UCD GeoGames Group workshop
22 Apr 2020		Early career researcher flash talks competition
23 Apr 2020	UCD School of Archaeology	Virtual walk: UCD Centre for Experimental Archaeology and Material
		Culture
27 Apr 2020	UCD School of Biology and Environmental Science	Virtual walk: UCD Rosemount Environmental Research Station
28 Apr 2020	UCD Schools of Agriculture and Food Science;	Virtual walk: The trees of Belfield
	Archaeology; Architecture, Planning and	
	Environmental Policy; Biology and Environmental	
	Science; Geography	
29 Apr 2020	UCD School of Architecture, Planning and	Virtual walk: The buildings of Belfield
	Environmental Policy	



E6 Training and career development workshops

Delivered in partnership with the UCD Career Development Centre and drawing on internal and external expertise, the Training and Career Development sessions target primarily early career researchers, focusing on professional skills and are an additional opportunity for researchers from different disciplines to interact and forge new connections.

Date	Co-host	Title
6 Nov 2018	UCD Career Development Centre	Early career researcher training session: The what, how and where of career
		planning
13 Nov 2018		Media training for researchers
29 Nov 2018	UCD Career Development Centre	Early career researcher training session: Wellbeing for PhDs
13 Dec 2018	UCD Career Development Centre	Early career researcher training session: Networking
26 Feb 2019	UCD Innovation	Early career researcher training session: Commercialising your research - Idea
		on a napkin innovation workshop
20 Mar 2019	Craig Slattery, UCD Conway Institute	Early career researcher training session: Communicating your research
24 Apr 2019	BEACON SFI Bioeconomy Research Centre;	Training/career development workshop: grant writing
	Irish Universities Association	
22 Oct 2019	UCD Career Development Centre	Early career researcher training session: Career planning for PhDs
12 Nov 2019	UCD Career Development Centre	Early career researcher training session: recognising your transferable skills
		and identifying your USP
13 Nov 2019	UCD Energy Institute	Media training for researchers
21 Nov 2019	UCD Michael Smurfit Graduate Business	Careers and Skills in Sustainable Finance and Responsible Business
	School	
26 Nov 2019	UCD Career Development Centre	Early career researcher training session: networking naturally
1 Apr 2020	NovaUCD and ConsultUCD	Paths to progress: environmental innovation and consultancy workshop
9 Nov 2020		Social media for researchers 1
16 Nov 2020		Social media for researchers 2



Appendix F Member funding successes, 2018-2020

Over the period 2018-2020, UCD Earth Institute members were awarded grants totalling over €30M in research income to UCD, indicating the value of environmental and sustainability awards to the University. These diverse awards are supported by national and international funding agencies, government departments, industry partners and charitable foundations.

Listing of member funding awards, 2018-2020

Funder	Awardee	School / Group	Project Title
All-Technology (Ireland) Ltd	Angela Feechan	Agriculture and Food Science	Effect of ProCrop ISR on Resistance Gene Expression in Wheat (Triticum aestivum)
Atlantic Salmon Trust	Jens Carlsson	Biology and Environmental Science	To investigate the application of eDNA technology in the assessment of pelagic by-catch of Atlantic salmon
British Society for Plant Pathology	Fiona Doohan	Biology and Environmental Science	BSPP Undergraduate Lockdown Bursary
Coordenacao de Aperfeicoamento de Pessoal de Nivel Superior	James Sullivan	Chemistry	Synthesis Characterisation and Application of Heterogeneous Catalysts in the Photocatalytic Reduction of CO2
Department of Communications Climate Action & Environment	Kevin McDonnell	Agriculture and Food Science	Future Agricultural Management for multiple outputs on climate and rural development (LIFE Farm4More)
Department of Culture Heritage and the Gaeltacht	Olaf Schmidt	Agriculture and Food Science	Annelid survey Killarney National Park
Department of Housing Planning and Local Government	Tasman Crowe	Biology and Environmental Science	Marine Protected Area (MPA) Process Research
Department of Housing Planning and Local Government	Mary Kelly-Quinn	Biology and Environmental Science	Strategy to operationalise coordinated citizen science freshwater monitoring LAWPRO support
Department of Agriculture Food and the Marine	Olaf Schmidt	Agriculture and Food Science	Signature of Irish Grass-fed Beef (BEEF-SIG)
Department of Agriculture Food and the Marine	Simone Ciuti, Barry McMahon	Biology and Environmental Science, Agriculture and Food Science	A smart and open-science approach to monitor and analyse deer populations in the Republic of Ireland and set the scene for evidence-based deer management.
Department of Agriculture Food and the Marine	Paul Murphy, Olaf Schmidt, Saoirse Tracy	Agriculture and Food Science	Farm Sustainability Tools for Efficient Nutrient management
Department of Agriculture Food and the Marine	Tom Curran	Biosystems and Food Engineering	Abating Ammonia in Agriculture



Funder	Awardee	School / Group	Project Title
Department of Agriculture Food and the Marine	Brian Tobin	Agriculture and Food Science	Response of tree species to climate change
Department of Agriculture Food and the Marine	Brian Tobin	Agriculture and Food Science	NEXCELSIOR: Next steps in managing the impact of ash dieback
Department of Agriculture Food and the Marine	Fiona Doohan, Angela Feechan, Rainer Melzer, Saoirse Tracy	Biology and Environmental Science, Agriculture and Food Science	Biostimulants and Biopesticides for Crop production
Department of Agriculture Food and the Marine	Mary Kelly-Quinn, Fiachra O'Loughlin, John O'Sullivan, Brian Tobin, Jonathan Turner	Biology and Environmental Science, Civil Engineering, Agriculture and Food Science, Geography	Hydrological and sediment impacts of forestry operations in Ireland
Department of Arts Heritage and the Gaeltacht	Barry McMahon	Agriculture and Food Science	GPS tracking Barnacle Geese in Ireland
Department of Foreign Affairs and Trade	Penelope Muzanenhamo	Business	Place Belonging International Entrepreneurship in Africa: Impact on Sustainable Development
Department of Jobs Enterprise Innovation	Peter Clinch	Architecture Planning and Environmental Policy	National Competitiveness Council
Dublin Airport Authority	Paraic Carroll	Civil Engineering	Air-cessibility - Examining land transport accessibility and mode preferences to Dublin Airport
European Regional Development Fund	Gregory O'Hare	Computer Science	Platform for Atlantic Geohazard Risk Management (PAGEO)
European Regional Development Fund	Karen Foley	Architecture Planning and Environmental Policy	CCAT
European Regional Development Fund	Wim Meijer	Biomolecular and Biomedical Science	ACCLIMATIZE
European Regional Development Fund	Tasman Crowe, Ciaran McNally, Jens Carlsson	Biology and Environmental Science, Civil Engineering	ECOSTRUCTURE: climate change adaptation through ecologically sensitive coastal infrastructure
European Regional Development Fund	Ciaran Mcnally	Civil Engineering	ECOSTRUCTURE: climate change adaptation through ecologically sensitive coastal infrastructure
European Regional Development Fund	Gregory O'Hare, Wim Meijer	Computer Science, Biomolecular and Biomedical Science	System for bathing Water quality Modelling (SWIM)
Enterprise Ireland	Wim Meijer	Biomolecular and Biomedical Science	Validating the value in the Total Patient Value Toolkit (TPV-T) in a formal clinical trial setting (TPV-ValidTrial)
Enterprise Ireland	Francesco Pilla	Architecture Planning and Environmental Policy	Smart City Lighthouse Project
Enterprise Ireland	Meriel McClatchie	Archaeology	Agriculture along the Corridor of the Atlantic 1000–1 BC (AGRICORA)
Enterprise Ireland	Carl Ng	Biology and Environmental Science	ClimateOnGuard â€" Innovative training on the impacts of climate change on plant and crop responses
Enterprise Ireland	Angela Feechan	Agriculture and Food Science	Virulence Proteins of Plants and Animals
Enterprise Ireland	Carl Ng	Biology and Environmental Science	FutureCropAdapt: future-proofing European food and nutritional security



Funder	Awardee	School / Group	Project Title
Enterprise Ireland	Tom Curran	Biosystems & Food Engineering	H2020 co-ordinator support - Circular bio-based business models based on pig production in rural communities
Enterprise Ireland	Tom Curran	Biosystems & Food Engineering	Developing solutions for Fatbergs in sewers using Sensing technology (FatbergSense)
Enterprise Ireland	Eugene O'Brien	Civil Engineering	Swarm Sensing of Structures
Enterprise Ireland	Grace Cott	Biology and Environmental Science	Investigating the sink-strength capacity of wetland plant species to global change factors
Enterprise Ireland	Kevin O'Connor	Biomolecular and Biomedical Science	Developing a Marie Curie industry PhD co-fund application
Enterprise Ireland	Meriel McClatchie	Archaeology	Agriculture along the Corridor of the Atlantic 1000–1 BC (AGRICORA)
Enterprise Ireland	Kevin O'Connor	Biomolecular and Biomedical Science	Talent4BBI: Developing Talent for Bio-Based Industries of Europe
Enterprise Ireland	Saoirse Tracy	Agriculture and Food Science	ROOT phenotyping in the Second green revolution
Enterprise Ireland	Nick Holden	Biosystems & Food Engineering	Coordinator support for TransCEU proposal
Enterprise Ireland	Francesco Pilla	Architecture Planning and Environmental Policy	H2020- Proposal Preparation Support
Enterprise Ireland	Francesco Pilla	Architecture Planning and Environmental Policy	TENURE
Enterprise Ireland	Donal Finn	Mechanical & Materials Eng	H2020 Travel Support
Enterprise Ireland	Fiona Doohan	Biology and Environmental Science	Horizon 2020 Travel Support
Enterprise Ireland	Alojz Ivankovic	Mechanical & Materials Eng	PANDORA
Enterprise Ireland	Tom Curran	Biosystems & Food Engineering	BARLEY GRAIN QUALITY
Enterprise Ireland	Alojz Ivankovic	Mechanical & Materials Eng	Finite Element Analysis to determine static and dynamic stresses on environmentally friendly aluminium trailers
Environmental Protection Agency	Carl Ng	Biology and Environmental Science	New Phytologist New Generation Scientists Symposium 2019
Environmental Protection Agency	Michael Bruen, Mary Kelly-Quinn	Civil Engineering, Biology and Environmental Science	ESDecide: from Ecosystem Services Framework to Application for Integrated Freshwater Resources Management
Environmental Protection Agency	Michael Bruen, Mary Kelly-Quinn, Florence Renou- Wilson	Civil Engineering, Biology and Environmental Science	Strategies to improve Water quality from Managed Peatlands (SWAMP)
Environmental Protection Agency	Craig Bullock	Architecture Planning and Environmental Policy	Advancing packaging waste statistics and recycling
Environmental Protection Agency	Rainer Melzer, Jon Yearsley	Biology and Environmental Science	The phenology of perennial ryegrass and its potential contribution to grassland carbon sequestration
Environmental Protection Agency	Gerald Mills	Geography	Greening the city
Environmental Protection Agency	Michael Bruen, Tasman Crowe, Mary Kelly-Quinn	Civil Engineering, Biology and Environmental Science	Land2Sea: integrated modelling of terrestrially derived and climatic impacts on freshwater and marine ecosystems



Funder	Awardee	School / Group	Project Title
Environmental Protection Agency	Mary Kelly-Quinn, Jonathan Turner, Michael Bruen, Jens Carlsson	Biology and Environmental Science, Geography, Civil Engineering	Assessment of extent and impact of barriers on freshwater hydromorphology and connectivity in Ireland (ReCONNECT)
Environmental Protection Agency	Mary Kelly-Quinn	Biology and Environmental Science	Irish Natural Capital Accounting for Sustainable Environments (INCASE)
Environmental Protection Agency	Michael Bruen	Civil Engineering	DiffuseTools: Catchment Models and Management Tools for Diffuse Contaminants (Sediment Phosphorus and Pesticides)
Environmental Protection Agency	Mary Kelly-Quinn	Biology and Environmental Science	Irish Natural Capital Accounting for Sustainable Environments (INCASE)
Environmental Protection Agency	Ainhoa Gonzalez Del Campo	Geography	Tiering of Environmental Assessment – The Influence of SEA on Project Level EIA
Environmental Protection Agency	Mark Scott	Architecture Planning and Environmental Policy	BE-Resilient: Built Environment Resilient Futures. Best practice in implementing climate adaptation
Environmental Protection Agency	Dara Stanley	Agriculture and Food Science	Relationships between functional diversity and food production and quality under ecological intensification (FunProd)
Environmental Protection Agency	Kevin O'Connor	Biomolecular and Biomedical Science	Sustainable biodegradable compostable and recyclable plastics for packaging and end-of-management
Environmental Protection Agency	Ainhoa Gonzalez Del Campo	Geography	NATIONAL ENVIRONMENTAL SENSITIVITY MAPPING (ESM)
Environmental Protection Agency	Ainhoa Gonzalez Del Campo	Geography	Further Development and Maintenance of the Environmental Sensitivity Mapping Webtool
Environmental Protection Agency	Ainhoa Gonzalez Del Campo	Geography	ESM Web Tool Illustrated Video
Environmental Protection Agency	•	Biology and Environmental Science	To develop and test a strategy to operationalise coordinated citizen science freshwater monitoring in Ireland
Environmental Protection Agency	Peter Clinch	Architecture Planning and Environmental Policy	EPA Remuneration Climate Change advisory council
Environmental Protection Agency	Florence Renou- Wilson	Biology and Environmental Science	Reducing the Effects of Forest Management to Inland Waters
ESPON EGTC	Ainhoa Gonzalez Del Campo	Geography	Territorial Impact Assessment for Cross-Border Cooperation
ESPON EGTC	Niamh Moore Cherry	Geography	ENSURE EuropeaN Sustainable Urbanisation through port city REgeneration
Eva Crane Trust	Dara Stanley	Agriculture and Food Science	Brilliant Bees: the importance of wild and managed pollinators to Irish agricultural systems
Eva Crane Trust	Dara Stanley	Agriculture and Food Science	Eva Crane Trust Pollen Reference Collection
Executive Agency for Small and Medium Sized Enterprises	Kevin McDonnell	Agriculture and Food Science	Future Agricultural Management for multiple outputs on climate and rural development (LIFE Farm4More)
Geological Survey of Ireland	Aggeliki Georgiopoulou	Earth Sciences	iCRAG Environmental Geosciences PhD Programme
Geological Survey of Ireland	Patrick Orr	Earth Sciences	Senior Geoscience and Policy Specialist
Geological Survey of Ireland	John Walsh	Earth Sciences	Identification and Assessment of Deep Geothermal Heat Resources in Challenging Urban Environments (GEO_URBAN)

Funder	Awardee	School / Group	Project Title
Geological Survey of Ireland	Patrick Orr	Earth Sciences	Blue Book - Annex 3 - Lower Carboniferous Stratigraphy of Ireland
Geological Survey of Ireland	Shane Donohue	Civil Engineering	Geohazards and Geotechnics
Glanbia Ireland Designated Activity Company	Kevin Edward O'Connor	Biomolecular and Biomed Science	Developing an integrated high yield process for converting Dairy residue to a chemical
Henkel	Alojz Ivankovic	Mechanical and Materials Engineering	Additive Manufacturing and Characterisation of Polymeric materials (PhD Studentship)
Higher Education Authority (HEA)	Kevin O'Connor	Biomolecular and Biomedical Science	Impact Assessment Case Studies and Performance Funding (Project Outcome 1)
HORIZON 2020	Frederic Dias	Mathematics and Statistics	Breaking of highly energetic waves (HIGHWAVE)
HORIZON 2020	Meriel McClatchie	Archaeology	Food Culture and Identity in Ireland 1550-1650 (FOODCULT)
HORIZON 2020	John Walsh	Earth Sciences	Quantitative analysis of the structural controls of faults on induced seismicity magnitude (FINSEIS)
HORIZON 2020	Kevin O'Connor	Biomolecular and Biomedical Science	MIXed plastics biodegradation and UPcycling using microbial communities (MIX-UP)
HORIZON 2020	Fiona Doohan	Biology and Environmental Science	Next generation variety testing for improved cropping on European farmland (Innovar)
HORIZON 2020	Francesco Pilla	Architecture Planning and Environmental Policy	Smart Network Operator Platform enabling Shared Integrated and more Sustainable Urban Freight Logistics (SENATOR)
HORIZON 2020	Julian Menuge	Earth Sciences	New Exploration Tools for European Pegmatite Green-Tech Resources (GREENPEG)
HORIZON 2020	Francesco Pilla	Architecture Planning and Environmental Policy	WeCount: Citizens Observing UrbaN Transport (WeCount)
Huawei Technologies Co. Ltd	John Sheridan	Electrical and Electronic Engineering	Opto-electronic beam shaping
Huawei Technologies Co. Ltd	John Sheridan	Electrical and Electronic Engineering	Optimised DOEs for DWDM
Invest Northern Ireland	Wim Meijer	Biomolecular and Biomedical Science	System for bathing Water quality Modelling (SWIM)
Irish Research Council	Frank McDermott	Earth Sciences	Constraining past moisture variability in sub-Saharan Africa to improve future projections and enhance resiliency under a changing climate
Irish Research Council	Michela Bertolotto	Computer Science	Development of Time-Robust Geospatial Information for enhancing Sustainable Mining in Northwest Ghana
Irish Research Council	Emma C Teeling	Biology and Environmental Science	BIOGEOBARRIERS â€" the role and impact of biogeographical barriers on biotic diversification and distribution
Irish Research Council	Michela Bertolotto	Computer Science	Development of Time-Robust Geospatial Information for enhancing Sustainable Mining in Northwest Ghana
Irish Research Council	Craig H Bullock	Architecture Planning and Environmental Policy	COALESCE Strand 1G - A Financial Needs Assessment Policy and Institutional Review Finance and Resource Mobilisation Strategy for Biodiversity
Irish Research Council	Niamh Moore Cherry	Geography	Ireland in the Metropolitan Century
Irish Research Council	Olaf Schmidt	Agriculture and Food Science	Green Infrastructure pilot projects in Dublin: Hydraulic efficacy biodiversity benefits experimental optimizations and flood defence modelling



Funder	Awardee	School / Group	Project Title
Irish Research Council	Paul McCabe	Biology and Environmental Science	Pharming of high value metabolites from transplastomic plant cells using bioreactors
Irish Research Council	Jacqueline Croke	Geography	Remembering hydromorphology: sensitivity of past and future flooding to changes in channel capacity land use and river disturbances
Irish Research Council	Paul Francis Mccabe	Biology and Environmental Science	One plant â€" dozens of applications: Establishing a breeding programme for the highly versatile crop Cannabis sativa
Irish Research Council	Cormac Murphy	Biomolecular and Biomedical Science	Characterisation of CYP5208A2: A putative xenobiotic- transforming enzyme in Cunninghamella elegans
Irish Research Council	Stephen Daly	Earth Sciences	Providing chronology for ancient ocean chemistry
Irish Research Council	K. Ravindranathan Thampi	Chemical and Bioprocess Engineering	Round-the-clock metal-free visible-light photocatalyst polymer membrane reactor for elimination of short-chain per- and poly-fluoroalkyl substances from surface waters
Irish Research Council	Jennifer Keating	History	The Habitable Globe Science Geography and Environment in the Indian Sub-Empire
Irish Research Council	Sharae Deckard	English Drama and Film	The New Ecological Imaginary: Waste Water Energy and the Built Environment in Twenty-First Century Experimental Prose (2001-2019)
Irish Research Council	Dara Stanley	Agriculture and Food Science	From Roots to Pollinators: How above- and below-ground organisms interact through plants
Irish Research Council	Angela Feechan	Agriculture and Food Science	Investigating the role of receptor-like kinases (RLKs) in defence priming in wheat
Irish Research Council	Jessica Smyth	Archaeology	Peregrini: a comparative study of mobility among medieval ecclesiastics and nuns in Ireland and Wales
Irish Research Council	Jessica Smyth	Archaeology	What when where and why? Understanding the origins of bog butter in Ireland.
Irish Research Council	Simone Ciuti	Biology and Environmental Science	Social or Solo? Energetic consequences of foraging strategies amongst cooperative and solitary hunters
Irish Research Council	Andrew Jackson	Law	Reimagining human rights to avert dangerous climate change: an ecofeminist perspective
Irish Research Council	Paul McCabe	Biology and Environmental Science	Climate smart Ireland: identifying regulators of aerenchyma the 'snorkel' tissue for survival of waterlogged crops
Irish Research Council	Rainer Melzer	Biology and Environmental Science	Towards establishing hemp as a sustainable crop for Irish agriculture
Irish Research Council	Dara Stanley	Agriculture and Food Science	Pollinators and pollination in subtropical Africa: evaluating their importance for woodland habitats and sustainable livelihoods through the provision of forest products
Irish Research Council	Dara Stanley	Agriculture and Food Science	Cocoa and biodiversity: Interactions between pollinators cocoa production and rural livelihoods in Ghana
Irish Research Council	Barry Molloy	Archaeology	Out with the old in with the new? The Urnfield influence in Balkans settlement dynamics: a comparative study of Istria and Banat
Irish Research Council	Jessica Smyth	Archaeology	A Multi-Isotope Investigation of Faunal Remains From Newgrange Co. Meath: Deciphering Later Prehistoric Subsistence and Connectivity
Irish Research Council	Sharae Deckard	English Drama and Film	The Origins of Post-Truth: Neoliberalism and Epistemic Crisis in Anglo-American Fiction 1980 to the Present.



Funder	Awardee	School / Group	Project Title
Irish Research Council	Emma Teeling	Biology and Environmental Science	The ecosystem services of Irish bats
Irish Research Council	Paul McCabe	Biology and Environmental Science	Pharming of high value metabolites from transplastomic plant cells using bioreactors
Irish Research Council	Niamh Moore Cherry	Geography	Communicating teenager's urban geographies using art- based methods
Irish Research Council	Donal Finn	Mechanical and Materials Engineering	Influence of demand response on energy markets: a long- term perspective
Kaggle	Soumyabrata Dev	Computer Science	Ground-based Imager for Continuous Atmospheric Monitoring
Marine Institute	Jens Carlsson	Biology and Environmental Science	CF-17-04 Piscine myocarditis virus: improved diagnostics and investigating the prevalence in farmed and wild fish in Ireland
Marine Institute	Frederic Dias	Mathematics and Statistics	Cullen Fellowship: Coupled wave-ocean models
Marine Institute	Jens Carlsson	Biology and Environmental Science	CF-17-04 Piscine myocarditis virus: improved diagnostics and investigating the prevalence in farmed and wild fish in Ireland
Marine Institute	Tasman Peter Crowe	Biology and Environmental Science	Modelling and Mapping Ireland's Invasive Marine Species Spread and Impact Potential
Marine Institute	Jonathan Yearsley	Biology and Environmental Science	Modelling and Mapping Ireland's Invasive Marine Species Spread and Impact Potential
Multicompany ITF (UK)	John Joseph Walsh	Earth Sciences	iCRAG_QUAFF2: Quantification of 3D fault zone geometries and their incorporation in modelling practice
Office of Public Works	Simone Ciuti	Biology and Environmental Science	Human - Deer Feeding interactions in the Phoenix Park Dublin
Office of Public Works	Simone Ciuti	Biology and Environmental Science	Behavioural ecology of fallow deer in Phoenix Park Dublin - assessing the impact of tourists feeding deer
OPTASENSE Limited	Shane Donohue	Civil Engineering	Optasense Industry Contribution - SFI SPOKES ROLLING PROGRAMME
Research Council of Norway (RCN)	Graeme Martin Warren	Archaeology	The Storegga tsunami c. 6150 BC - a wave of destruction or transformative disruption for a prehistoric society?
Royal Embassy of Saudi Arabia	Gerald Mills	Geography	4 year PhD
Royal Embassy of Saudi Arabia	James Sullivan	Chemistry	Ghadeer Almohammadi MSc project - the adsorption of pollutants onto nanostructured oxides
Royal Embassy of Saudi Arabia	Niamh Moore Cherry	Geography	PhD Scholarship
Royal Embassy of Saudi Arabia	Olaf Schmidt	Agriculture and Food Science	Biological studies on the invasive plant species Gunnera tinctoria
Royal Embassy of Saudi Arabia	Wim Meijer	Biomolecular and Biomedical Science	MSc in Infection Biology
Royal Embassy of Saudi Arabia	Oliver Kinnane	Architecture Planning and Environmental Policy	PhD in Architecture - Controlling Climate and Electronical energy used in Saudi Arabia
Royal Embassy of Saudi Arabia	Francesco Pilla	Architecture Planning and Environmental Policy	Smart approaches to assess the impact of indoor environmental quality on work productivity in university open-plan research offices
Royal Embassy of Saudi Arabia	K. Ravindranathan Thampi	Chemical and Bioprocess Engineering	Advanced Materials for Solar Energy Conversion and Storage



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Royal Embassy of Saudi Arabia	Kevin O'Connor	Biomolecular and Biomedical Science	PhD studentship
Royal Embassy of Saudi Arabia	Olaf Schmidt	Agriculture and Food Science	Biological studies on the invasive plant species Gunnera tinctoria
Royal Embassy of Saudi Arabia	Oliver Kinnane	Architecture Planning and Environmental Policy	PhD in Architecture - Controlling Climate and Electronical energy used in Saudi Arabia
Royal Embassy of Saudi Arabia	Francesco Pilla	Architecture Planning and Environmental Policy	Smart approaches to assess the impact of indoor environmental quality on work productivity in university open-plan research offices
Royal Embassy of Saudi Arabia	K. Ravindranathan Thampi	Chemical and Bioprocess Engineering	PhD in Renewable Energy
Royal Embassy of Saudi Arabia	Francesco Pilla	Architecture Planning and Environmental Policy	Smart approaches to assess the impact of indoor environmental quality on work productivity in university open-plan research offices
Royal Irish Academy (RIA)	Meriel McClatchie	Archaeology	A new scientific approach to determine agricultural management strategies in medieval Ireland
Science Foundation Ireland	Dara Stanley	Agriculture and Food Science	SFI Maternity Allowance
Science Foundation Ireland	Emma Teeling	Biology and Environmental Science	SFI Centre for Research Training in Genomics Data Science
Science Foundation Ireland	Bruce Osborne	Biology and Environmental Science	10th International Conference on Biological Invasions: New Directions in Invasion Biology
Science Foundation Ireland	Angela Feechan	Agriculture and Food Science	International Symposium on Cereal Leaf Blights 2019
Science Foundation Ireland	Wim Meijer	Biomolecular and Biomedical Science	SARS-CoV-2 surveillance of sewage and sewage impacted waterbodies
Science Foundation Ireland	Kevin O'Connor, James Sullivan	Biomolecular and Biomedical Science, Chemistry	BEACON Partnership with the University of Nottingham (CDT-2AP) Centre for Doctoral Training Atoms-to-Products - an Integrated Approach to Sustainable Chemistry
Science Foundation Ireland	Emma C Teeling	Biology and Environmental Science	LongHealth: The Molecular Basis and Regulation of Longer Healthspan in Mammals
Science Foundation Ireland	Shane Donohue	Civil Engineering	Geophysical and Earth Observation Tools for Evaluating the Condition of Slopes (GEOTECS)
Science Foundation Ireland	Kevin O'Connor	Biomolecular and Biomedical Science	Creating a carbon neutral resilient dairy farm
Science Foundation Ireland	Sonia Negrao	Biology and Environmental Science	Looking into time- how abiotic stress impacts barley production and malting quality
Science Foundation Ireland	Evelyn Doyle	Biology and Environmental Science	Discovering non-protein-coding vulnerabilities in lung cancer with CRISPR-Cas9
Science Foundation Ireland	Aggeliki Georgiopoulou	Earth Sciences	iCRAG Environmental Geosciences PhD Programme
Science Foundation Ireland	Frederic Dias	Mathematics & Statistics	Marine Renewable Energy Ireland (MaREI) The SFI Centre for Marine Renewable Energy Research
Science Foundation Ireland	Frederic Dias	Mathematics & Statistics	MaREI Phase 2
Science Foundation Ireland	John Cotter	Business	FinTech
Science Foundation Ireland	Peter Clinch	Architecture Planning and Environmental Policy	SFCP - Science Foundation Ireland



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Science Foundation Ireland	Kevin McDonnell	Biosystems and Food Engineering	Sustainable biomass supply chain development for the Irish bioeconomy
Science Foundation Ireland	Grace Cott	Biology and Environmental Science	Processes and mechanisms controlling carbon sequestration and storage in blue carbon habitats; advancing Ireland's capacity to mitigate and adapt to climate change (BlueCarbon)
Science Foundation Ireland	Michela Bertolotto	Computer Science	Urban ARK: Assessment Risk Management & Knowledge for Coastal Flood Risk Management in Urban Areas
Science Foundation Ireland	Frank McDermott	Earth Sciences	Multi-Scale Investigation of Bio-Based Mineral Precipitation in Carbonate-Bearing Granular Soils and Construction Related Waste
Straw Chip Limited	Tom Curran	Biosystems and Food Engineering	BARLEY GRAIN QUALITY
Sustainable Energy Authority of Ireland	Frederic Dias	Mathematics and Statistics	RESOURCECODE: Resource Characterisation to Reduce the Cost of Energy through Coordinated Data Enterprise
Sustainable Energy Authority of Ireland	Ainhoa Gonzalez Del Campo	Geography	Mapping Webtool to Support the Preparation of Local Authority Renewable Energy Strategies
Sustainable Energy Authority of Ireland	Gerald Mills	Geography	Urban Building Energy Model
Sustainable Energy Authority of Ireland	Oliver Kinnane	Architecture Planning and Environmental Policy	NZEB101
Sustainable Energy Authority of Ireland	Conor Sweeney	Mathematics and Statistics	IEA Task 36 - Forecasting for Wind Energy
Teagasc	Kevin McDonnell	Agriculture and Food Science	The impact of cultivation system intensity combined with crop rotation on soil structure quality and crop performance in a mild climate
Teagasc	Eoin O'Neill	Architecture Planning and Environmental Policy	Consumer understanding of the bioeconomy and bio-based products
Teagasc	Olaf Schmidt	Agriculture and Food Science	Soil Compaction - evaluating the effects of remediation strategies on soil nutrients plants and water
Teagasc	Brian Tobin	Agriculture and Food Science	Walsh Fellowship 2020 (FitForests)
Teagasc	Paul Murphy	Agriculture and Food Science	The role of sulphur nutrition in grassland yield quality and nutrient use efficiency optimisation
Teagasc	Saoirse Tracy	Agriculture and Food Science	Influence of root:soil interactions to enhance plant resilience to abiotic stress in Irish cereal crops
Teagasc	Olaf Schmidt	Agriculture and Food Science	Evaluating the potential of leguminous cover crops to reduce fertiliser N requirements of cereal crops
The Leverhulme Trust	Saoirse Tracy	Agriculture and Food Science	Friend or foe; who wins in the competition for plant resources
The Rank Prize Funds	Saoirse Tracy	Agriculture and Food Science	Using X-ray CT scanning to investigate plant to plant interactions
University of Limerick	Alojz Ivankovic	Mechanical & Materials Eng	Composite/Composite and Composite/Metal Bonding (CCM Bond2)
Wicklow County Council	Graeme Warren	Archaeology	Archaeological excavations at Glendalough Co.Wicklow



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