

EU Commission's Director General for Research Visits TCD



DG José Maneul Silva Rodríguez in a Bubble Tube at the TCD Science Gallery.

The EU Commission's Director General for Research, Mr José Manuel Silva Rodríguez, was in Trinity College Dublin on 08 September 2010 as part of a series of visits to Member States to promote the EU's 7th Framework Programme (FP7) to Irish companies and universities.

At TCD he met Dean of Research, Dr David Lloyd, and staff of the campus company Crème which is based on the Trinity Technology and Enterprise Campus. Crème was founded in 2005 and provides web-based software, solutions in the area of food, chemical and cosmetic exposure assessment. It is closely-linked to two research teams in TCD – the Institute of European Food Studies and the Trinity Centre for High Performance Computing. The company has been involved in a number of EU FP-funded projects.

Mr Silva Rodríguez also visited the Science Gallery at TCD and toured the 'Bubble' exhibition where visitors learn about the physics of foams. 'Bubble' was developed in collaboration with Prof. Denis Weaire and Dr Stefan Hutzler, TCD School of Physics.

Since 2002, Irish projects have received more than €300 million in research funding from the EU 6th and 7th Framework Programmes in a range of different areas. At a showcase of some of the TCD projects, Mr Silva Rodríguez spoke about the value of investing in research, and said that the development of a 'European research area' is high on the political agenda of all EU countries.

The visit ended with a tour of the Book of Kells, a 9th-century gospel manuscript housed in the TCD Old Library.

Ten New Campus Companies for TCD



Trinity College Dublin approved ten new spin-out companies in 2009. The companies, which commercialise research carried out at the university, will exploit the latest technologies in bioscience, physical sciences, and information and communications technology.

Commenting on TCD's advances in this area, the Provost, Dr John Hegarty said: "The range of these spin-out companies reflects the quality research currently being produced by Trinity researchers. It is through such innovation that entrepreneurial activity is generated with direct benefit to the Irish economy and society. Driving enterprise development that will lead to the creation of sustainable high-value jobs is a key strategic goal of the university".

Dr James Callaghan, Associate Director of Trinity Research & Innovation, said: "Government investment in research and innovation, through Enterprise Ireland's Technology Transfer Strengthening Initiative (TTSI) has also had a significant impact on the formation of these companies. The resulting growth of expertise in the TCD Technology Transfer Office, which facilitated the formation of the companies, has enabled greater commercialisation of Trinity's world-class research, achieving in 2009 the highest annual number of spin-out companies by the College to date".

TCD has also streamlined its policy on evaluating and approving campus companies. As part of its strategic plan, TCD is developing an open innovation policy to further stimulate knowledge transfer and enterprise development. This supports the transition from capturing intellectual property (IP) to its practical application and use for commercialisation and job-creation.

In the last three years, the TCD Technology Transfer Office has filed 65 priority patent applications and disclosed a total of 116 inventions, including 47 in 2009. They filed 22 new patent applications in 2009 to protect novel IP arising from research taking place throughout TCD's schools and research centres. In addition, they concluded six licence agreements with a range of companies, bringing the total to 21 since 2007.

WWII Roll of Honour Housed in TCD Library



Sarah Alyn Stacey, TCD School of Languages, Literatures and Cultural Studies, held a colloquium in June 2009 to examine the role of the Irish in World War II, specifically the liberation of France. 'Les Dés Sont sur le Tapis: Ireland in World War II' was opened by Major-General David O'Morchoe, President of the British Legion in Ireland.

Dr Alyn Stacey discussed the active role played by Samuel Beckett during the war. Yvonne McEwen, Centre for the Study of the Two World Wars, University of Edinburgh, presented a paper 'Waking the Dead: Researching and Compiling Ireland's War Dead in World War II'. Dr Gerald Morgan, TCD School of English, presented a paper on 'Trinity College Dublin War Dead 1939-1945'.

The colloquium closed with a presentation to TCD Library of *Ireland's Roll of Honour for World War Two* listing all known Irish-born casualties of that conflict. It was compiled by Dr McEwen, and the University of Edinburgh financed the special leather binding as a gift to TCD.

The Roll is available to scholars for research purposes. It currently lists 7,507 Irish men and women from the island of Ireland who died while serving in the British, Commonwealth and Dominion Forces during World War II. These previously unpublished findings highlight Ireland's role in the war despite its policy of neutrality.

Dr Alyn Stacey was awarded full membership of the Académie de Savoie in February 2010 in recognition of her research on the Court of Savoy, the entourage of Marguerite de France, and the poet Marc-Claude de Buttet. Her latest publication, *Court and Humour in the French Renaissance: Essays in Honour of Professor Pauline Smith* (Geneva, Peter Lang, 2009) will be launched during 2010.



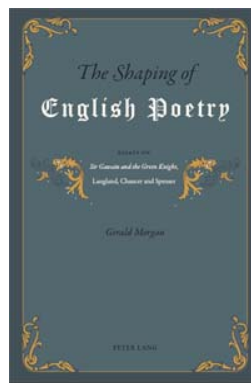
Centre for Medieval and Renaissance Studies

The Centre for Medieval and Renaissance Studies (www.tcd.ie/Medieval_Renaissance) is based in the TCD School of Languages, Literatures and Cultural Studies (SLLCS).

One of its primary initiatives in 2010 has been to establish five collaborative research networks: Early-Modern Gardens in Context (strand coordinator Dr Anatole Tchikine); Chaucer in Context (strand coordinator Dr Gerald Morgan); Réseau international de chercheurs sur la Savoie (strand instigator Dr Sarah Alyn Stacey); Forum for the Study of Early-Modern Women in Continental Europe (strand coordinator Dr Eavan O'Brien); Byzantine Studies (strand coordinator Dr Barbara Crostini).

These initiatives are complemented by a number of conferences: Early-Modern Gardens in Context (21 November 2009); Chaucer in Context (17 April 2010; sponsored by Medium Aevum); Les Conflits en Savoie 1500-1800/Conflict and Society in Savoy in the Early-Modern Period (26-28 May 2010; sponsored by the Long Room Hub); French Renaissance Anthologies (19-21 July 2010; sponsored by the TCD Long Room Hub); a Forum for the Study of Early-Modern Women in Continental Europe (03 September 2010).

The Centre has also organised a number of workshops: a palaeography workshop run by the distinguished Oxford historian Dr David Rundle (22-23 March 2010; sponsored by the SLLCS) and "Convivencia" in Byzantium? Cultural Exchanges in a Multi-Ethnic and Multi-Lingual Society' (01-03 October 2010; sponsored by the European Science Foundation). It will also host a visit by Renaissance scholar Prof. Gary Ferguson, University of Durham, UK (October 2011; sponsored by the TCD Long Room Hub).



Dr Morgan's latest publication *The Shaping of English Poetry: Essays on Sir Gawain and the Green Knight, Langland, Chaucer and Spenser* (Peter Lang, 2010) will be launched at the Shelbourne Hotel on 15 April 2010.

WiSER & Science Gallery are recipients in €2.75M FP7 "TWIST" bid



The Centre for Women in Science & Engineering Research (WiSER) and the Science Gallery at Trinity College Dublin, along with partner organisations across Europe, have been awarded €2.75 million in EU FP7 funding for a three-year project 'Towards Women in Science & Technology (TWIST)'.

TWIST will address the challenge of the severe under-representation of women in science and technology research across Europe. Through an ambitious programme of co-ordinated activities, it will raise awareness of the wide-ranging roles played by women in science and technology. The project aims to engage school students, teachers and parents, and the general public.

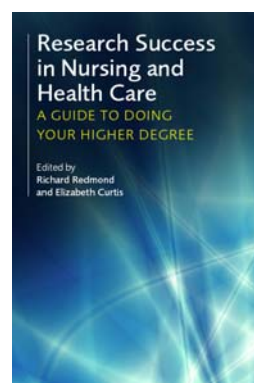
Activities will take place in science centres and museums in Ireland, Denmark, Italy, the Netherlands, Slovenia, Sweden, Israel and the UK. These will include unconscious bias tests, debates on topics pertaining to the position of women in science and technology, and interactive theatre. In addition, TWIST will highlight research for, by and about women, and highlight significant work carried out by women scientists, research affecting women (e.g. breast cancer research), and research about women, such as in the fields of gender studies and social studies.

Additional activities will include the development of an interactive multimedia database of scientists to increase visibility and provide role models of both genders. Also part of the project is the creation and integration of a "gender and science" module for teachers to implemented during teacher training.

TWIST will end with a conference held in Dublin in 2012 to celebrate the city as European City of Science 2012.

INSERT 'WiSER TWIST'-logo[1]

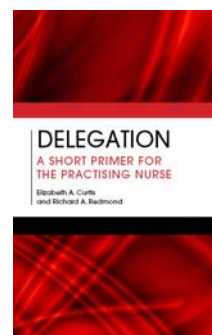
TCD School of Nursing and Midwifery Studies Publications



Research Success in Nursing and Health Care: A Guide to Doing Your Higher Degree (Sep 2008), edited by Richard A. Redmond and Elizabeth A. Curtis, consists of 10 chapters written by experienced academics from Ireland and the UK. It is a valuable resource for any healthcare professional planning to do a postgraduate degree. Professor Kadar Parahoo, University of Ulster School of Nursing writes in the foreword that it is "not just a guide book but an interactive text that invites readers to think and engage with the discussions.

It will empower students to take ownership of their studies". Rather than telling students how to do research, it looks at the stages of a researcher's journey including: choosing the right degree; getting started; useful supports and networks; getting the most out of the supervisory process; research management; preparing for the examination stage; and dissemination and publication of research findings.

Dr Curtis and Dr Redmond have also published *Delegation: A Short Primer for the Practising Nurse*. Aimed at all nurses, this book provides information on both the conceptual and practical processes of delegation. It offers advice on how, why and what to delegate, and addresses the implications, including benefits, barriers and conflict. It also looks at contemporary issues and provides five perspectives on delegation – nursing, education, psychology, sociology and quality. Susan McLaren, Professor of Nursing at London South Bank University, writes in the foreword that "this accessible, incisive, succinct and highly informative book is timely and addresses a significant gap in contemporary publications".



Trinity Long Room Hub Newsletter



The Trinity Long Room Hub has launched *BeSpoke*, a bi-annual newsletter from the world of arts and humanities at Trinity College Dublin (www.tcd.ie/longroomhub/newsletter).

BeSpoke features the 1641 Depositions under the *Trinity Long Room Hub Magnifying Glass* which was developed to give readers details of treasures of the Long Room. *Inverted Commas* reminds readers of a well-known TCD student, and the *Culture Quarter* highlights a cultural institution in Dublin city. There are also news stories, interviews, and a section *For Your Bookshelf*.

The Trinity Long Room Hub is an institute for advanced research in the arts and humanities at Trinity College Dublin. It takes its name from the iconic eighteenth-century Library in TCD. The Hub was established in October 2007 following the award of almost €11 million by the Higher Education Authority.

TCD Dental Scientists Unravel Genome Sequence



Photomicrograph of *Candida dubliniensis* chlamydoconidia and pseudohyphae (highlighted in blue).

Derek Sullivan, Gary Moran and David Coleman, TCD School of Dental Science, have published the results of their research project decoding the 14.6 million base pair *Candida dubliniensis* genome sequence in the journal *Genome Research*.

This research is based on the 1995 discovery by TCD researchers of a new species of *Candida* associated with HIV-infected and AIDS patients which they named *Candida dubliniensis*, after the University and City of Dublin.

The most important causes of fungal disease are *Candida* species, well-known because of diseases such as thrush (in the vagina and mouth). Unfortunately, these species are also the cause of life-threatening bloodstream infections in a wide range of medically-compromised patients such as those with cancer and recipients of organ transplants. The most common cause of these diseases is *Candida albicans* which is much more virulent than *Candida dubliniensis*.

The data confirm that the two yeast species are very closely related (approximately 95%) but that *Candida albicans* has expanded its genetic repertoire through the expansion of certain gene families. In contrast, *Candida dubliniensis* appears to be losing genes, possibly as a result of specialisation to an, as yet unidentified, anatomic niche. The presence of novel genes in *Candida albicans* also suggests that there are previously uncharacterised genes involved in candidal virulence and these are currently being investigated by researchers in the Dental School.

Prof. Sullivan, Dr Moran and Prof. Coleman, whose research is supported by funding from Science Foundation Ireland, received funding from the Wellcome Trust Sanger Institute in Cambridge (UK) for this project. The original research in 1995 was funded by the Health Research Board.

TCD Leads Team Awarded €1m for Sustainable Consumption



ConsEnSus project team (left to right) Dr Frances Fahy, NUI Galway; Prof. Anna Davies, TCD; Mr. Kevin Woods, EPA; Dr Henrike Rau, NUI Galway; Dr Jessica Pape, TCD.

Anna Davies, TCD School of Natural Sciences, is leading a €1 million research project funded by the Irish Environmental Protection Agency STRIVE Programme on 'Consumption, Environment and Sustainability' (ConsEnSus).

ConsEnSus (www.consensus.ie) is multi-disciplinary and cross-border both in terms of the research undertaken and membership of the expert advisory panel. The project began in 2009 and will run for four years. It is examining four key areas of household consumption - transport, energy, water and food - which negatively affect environmental quality and inhibit the ability of the island of Ireland to achieve sustainable development.

Four key themes will be addressed: improving the measurement and evaluation of consumption impacts; examining how more sustainable behaviours can be encouraged; identifying links between consumption, health and well-being; and establishing good governing practices for sustainable consumption.

Using innovative methodologies such as visioning workshops and virtual mobility tools, this project will provide recommendations for advancing sustainable consumption. The results will be an early response from Ireland to calls from institutions such as the World Business Council for Sustainable Development and the United Nations Environment Programme to address current unsustainable economic growth and development patterns.

ConsEnSus involves close collaboration between researchers in two Irish universities: Prof. Davies is the principal investigator; Dr Frances Fahy, NUI Galway, is project manager; and Dr Jessica Pape, TCD, is project co-ordinator. The project is providing training for four PhD students, one based in TCD. In addition, TCD is hosting a postdoctoral research fellow.

TCD Economists Report on Irish Education Policy



(left to right) Mr. Paddy O'Keefe, FBD Trust; Dr Charles Larkin, TCD; Minister for Education and Science, Batt O'Keeffe TD; Ms Ailbhe Kenny, MIC; and Dr Jacco Thijssen, TCD.

Charles Larkin and Jacco Thijssen of the Trinity College Dublin School of Social Sciences and Philosophy launched a report on Irish education policy on 17 October 2009 at the 32nd Dublin Economic Workshop in Kenmare, Co. Kerry.

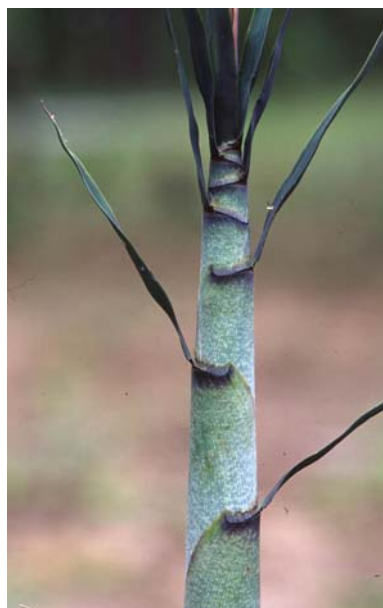
'Irish Education Policy for a Globalised World: A Policy for Chasing Black and White Swans' is an interdisciplinary research report on higher education, innovation policy and its links to economic growth by Dr Larkin and Dr Thijssen, TCD; Ailbhe Kenny, Mary Immaculate College, Limerick; and Daithí MacSithigh, University of East Anglia, UK.

The report addresses the need to create a systematic policy for education at all levels which links to the innovation agenda and generates economic and employment growth. It brings together the skills of an educationalist, a legal scholar, an economic theorist and a public policy-orientated economist. It targets a policy-making audience and aims to facilitate a discussion of the efficacy of current models of research and development funding, incentives and the overarching legal context within which education and innovation take place.

The authors argue that the investment required to develop a knowledge economy is too high in the current economic climate; that the Irish Higher Education Authority has prioritised short-term policy objectives in pursuit of a knowledge economy but has failed to focus on deep knowledge and understanding within the university sector. They claim that this has damaged educational policy within Ireland as the focus on the third-level sector has been at the expense of both the primary and secondary school sectors.

The research work of the Swan Group (www.swangroup.org) was funded by a grant from the FBD Trust.

TCD Botanists Discover New Bamboo Species



Young shoots of *Phupanochloa*: a new species and genus of woody bamboo discovered by TCD botanists.

Botanists at the TCD School of Natural Sciences, Dr Trevor Hodgkinson (co-ordinator), Dr Sarawood Sungkaew (now a lecturer at Kasasart University, Thailand) and Dr Yanis Bouchenak-Khelladi (now a postdoctoral researcher at the University of Cape Town, South Africa) have undertaken a comprehensive genetic study, with collaborators from the Royal Botanic Gardens Kew, England, to sample all major taxonomic groups of woody bamboos and related grasses.

Bamboos are giant grasses used throughout the world for, amongst other things, building material and food (bamboo shoots). They are also one of the fastest-growing plants.

The botanists have found several new species and their results show that the woody bamboos are not a natural group in an evolutionary context. In other words, they are not as closely-related as once believed. This result was a major surprise and their recent publications (*Journal of Plant Research*, *Kew Bulletin*, *Molecular Phylogenetics and Evolution*, and *Thai Forest Bulletin*) describe how this work will impact on the taxonomic treatment of these plants and our ecological and evolutionary understanding of them.

Woodiness in these grasses could have evolved twice in two unrelated groups of what we now call woody bamboos. Alternatively it could have evolved once, but was then lost in their close relatives. The botanists believe the former hypothesis is most likely.

Similar natural selection forces acting on different unrelated groups of bamboos led to the evolution of woodiness from non-woody ancestors that better enabled them to compete for light in their forest habitats via rapid woody growth.

Minister Opens TCD Next-Generation DNA Sequencing Lab



(left to right) Prof. Michael Gill, Head of Neuropsychiatric Genetics Research Group at TCD, Dr Stephen Simpson, Director of Life Sciences at Science Foundation Ireland, Mr. Conor Lenihan, T.D., Minister for Science, Technology & Innovation, Dr. Derek Morris, PI in Trinity Genome Sequencing Laboratory and Prof. Dermot Kelleher, Head of School of Medicine at TCD.

Ireland's first genome-sequencing laboratory was funded by a Science Foundation Ireland (SFI) grant to Derek Morris, Trinity College Dublin School of Medicine. Based in TCD's Institute of Molecular Medicine, it enables research into psychiatric disorders, cancers, infectious diseases and conditions affecting the immune system.

Minister for Science, Technology & Innovation, Conor Lenihan TD, opened the Trinity Genome Sequencing Laboratory on 08 June 2009.

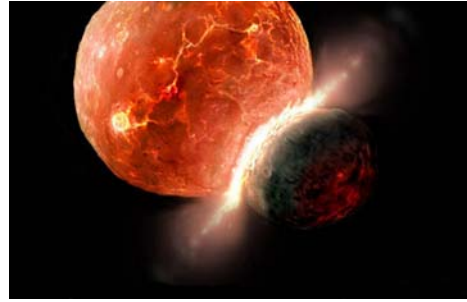
It houses an Illumina Genome Analyzer II, the first next-generation DNA sequencing platform to be set up in Ireland. This new technology allows scientists to undertake studies in molecular biology and genetics research that were previously not technically or economically feasible.

DNA is the genetic material which carries the instructions for life within each cell of any organism, including all cells in the human body. DNA-sequencing is the process of deciphering this genetic code of a particular gene, a set of genes, or the whole genome.

Dr Morris's area of research is the study of genes which cause psychiatric disorders including schizophrenia, autism and attention-deficit hyperactivity disorder (ADHD). This new technology is high-throughput, precise and cost-effective, and the facility is available to researchers nationwide.

Prof. Michael Gill, Head of the TCD Neuropsychiatric Genetic Research Group believes that psychiatric disorders have a very significant health, social and economic impact in Ireland: "Identifying causative or risk genes will advance our understanding of the biology of these disorders and inform the development of new methods of diagnosis and new drug therapies".

TCD Geologist's Research into Planet Formation



Ian Sanders, TCD School of Natural Sciences, presented clear new evidence at the 41st Lunar and Planetary Science Conference held in Houston, Texas in March 2010 that small planetary bodies had melted before chondrules were made.

Initiated by observations made in 1993 when he examined the Irish Sprucefield meteorite (which fell through the roof of an RUC station in 1969), Dr Sanders' research has led him to develop an interpretation of the evidence in meteorites radically different from the prevailing view. He argues that the main component grains of common meteorites, known as chondrules, were created when small planetary bodies, rendered molten by intense radioactivity, collided in space and burst open in cascades of incandescent spray; the liquid droplets then cooled and froze to become chondrules.

This alternative has evolved over the past 15 years, with versions published in 1996 and 2005. Dr Sanders' paper 'The Meltdown Era: A Time for Making Ancient Iron Cores and Younger Chondrules' was favourably received in Houston, and his views are on course to becoming 'mainstream'.

The planets are thought to have grown by the aggregation of dust and gas in an enormous disk that surrounded the newly-formed Sun. In the zone between Mars and Jupiter, no planet appears where it might have been expected, and instead asteroids are found there – battered and broken remnants of many tiny planets which survive from the very beginnings of the solar system. Small fragments are delivered to earth as meteorites, and geologists study them to find out what was going on when the main planets were still under construction.

TCD Entrepreneurship Programme 2009 Winners



Judges and winning team from the TCD Molecular Medicine Entrepreneurship Training Programme 2009 (left to right) Dr Joanne Lysaght, Ms Fiona Behan, Mr John Phelan, Dublin BIC (judge), Prof. John Corish, TCD (judge), Stuart Cranmer, Allergy Standards Ltd. (judge), Dr Stephen Maher and Dr Shane Duggan.

Migrant Networks' Leaders Photo Exhibition Launched at TCD



(left to right) Rev. Obinna Ulogwara, Church of Ireland; Kunle Animashaun, Camino De Orula Productions African Theater; Alessia Passarelli, TCD; Dr Ronit Lentin, TCD; Juliet Amamure, Diaspora Women's Initiative; Dr Carla De Tona, TCD; Elena Moreo, TCD; Leslie McCartney, TCD; Ying Yung Wang, TCD; Anna Pas, Polski Express; Carl Czanik, Exhibition Photographer; Barney Whelan, An Post; Reginald Okoflex, Nigeria Association Network Ireland; Martina Byrne, TCD. Photo by Maxwell Photography.

'Leaders', a photographic exhibition which showcases the contribution made by migrant networks in Ireland, opened in TCD on 28 May 2009. It documents the work and achievements of eighteen individuals and organisations in rights advocacy, gender issues, culture, the media and religion. The exhibition was organised by the Trinity Immigration Initiative (TII) Migrant Networks Project and is supported by An Post.

Ronit Lentin, TCD School of Social Sciences and Philosophy and TII, sees this as a way to showcase some of the migrant networks she has worked with since 2008: "These leaders are showing Ireland how, often in difficult situations, with little funding and support, migrants are advocating for their communities".

Barney Whelan, An Post Director of Communications and Corporate Affairs, was pleased to support the exhibition not least because An Post has witnessed the steady integration of immigrants into its 10,000-strong workforce.

The TII, supported by AIB Bank, is a suite of six interrelated research projects. The Migrant Networks project maps migrants' networking and explores how these networks facilitate social, cultural, and political integration in Ireland. It also enables government departments, public bodies, NGOs, the media, the general public and migrants themselves to understand migrants as active agents in their own integration and as contributing to Ireland's new cultural richness.

The exhibition was viewed by over two million people when it toured Dublin Public Libraries, the Dublin Docks Authority, Croke Park Stadium, and Dublin Civic Offices. It will be part of a TII international conference 'New Migrations, New Challenges' in TCD from 30 June to 03 July 2010, and will then be shown at the GPO during summer 2010.

TCD Language Project Wins European Award



(left to right) Prof. David Crystal, University of Wales; Dr Barbara Lazenby Simpson, and Dr Zachary Lyons, Trinity College Dublin.

An English Language Support Programme website (www.elsp.ie) developed by Dr Zachary Lyons, Dr Barbara Lazenby Simpson, Ms Linda Richardson and Prof. David Little, TCD School of Linguistic, Speech and Communication Sciences, has won the 2009 Léargas European Award for Languages.

ELSP is a research project, funded by the Trinity Immigration Initiative (TII), which develops English language support for newcomer students in post-primary schools. It won the award for its website of freely-downloadable learning materials.

Based on computational analysis of curriculum language as presented in post-primary textbooks, the learning materials are firmly-rooted in the different curriculum subjects. The website offers some 200 Language Support Activity Units (almost 6,000 pages) for Junior and Leaving Certificate subjects together with other language support materials and lesson plans for teachers. It also encourages students to create personal learning resources which will continue to support subject-learning as they progress through the post-primary curriculum. Widely-used not only in English language support but by mainstream subject, special needs and learning support teachers, the website's resources are currently being modified to make explicit their relevance to the needs of these different groups.

The European Award for Languages is an annual award given to projects where participants have found creative ways to improve the quality of language teaching, motivate students, and make the best of available resources. It is co-ordinated by the European Commission and managed in Ireland by Léargas.

The award was presented at a celebration of the European Day of Languages on 25 September 2009 by internationally-renowned linguist David Crystal, Honorary Professor of Linguistics at the University of Wales.

The TII is sponsored by AIB Bank.

<p>Trinity Research & Innovation</p> <p>Research Development: As liaison office between TCD's research and Irish and international funding agencies, the Research Development team advises on funding for research projects and assists researchers with funding submissions in order to ensure compliance with agency and College requirements. This division also coordinates the institutional research proposals. Please note that research applications should be sent to the Research Development Office at least two working days before applicants need to submit them to sponsors. Enquiries to research.office@tcd.ie</p> <p>Contracts: The Contracts team is responsible for the review and execution of all research-related and service contracts and tenders (funding agencies and other third-party sponsors) from the perspective of financial exposures and liability, ensuring College's due diligence and compliance in contractual matters. Enquiries to research.contracts@tcd.ie</p> <p>Technology Transfer: This division supports the capture, protection and exploitation of Trinity College Dublin's innovative research results. The Technology Transfer team also promotes the creation of cooperative linkages between TCD and the world of industry, in order to help researchers to find commercial options for their ideas and inventions and to attract companies towards new areas of TCD's research. Enquiries to mjwoods@tcd.ie OR industry.liaison@tcd.ie</p> <p>Entrepreneurship: Working under the College's Director of Entrepreneurship through the Entrepreneurship Programme, this division has a wide range of activities to support new ventures spinning off from research and teaching in TCD, including a comprehensive training programme and the development of national and international networks of innovation. Enquiries to bnoone@tcd.ie</p>	<p>MAP</p> <p>Trinity Research & Innovation O'Reilly Institute University of Dublin Trinity College Dublin 2</p> <p>Phone: +353 1 896 1155 Fax: +353 1 679 8039 Email: innovation.centre@tcd.ie</p> <p>www.tcd.ie/research_innovation</p> <p>Trinity Research & Innovation is located in the O'Reilly Institute, Trinity College, Dublin 2. Entrance through Hamilton Building. Opening hours: Monday to Friday from 09.00 to 13.00 and from 14.00 to 16.00.</p>
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