

Buildings & Estates NEWS

Issue 2 | December 2018



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Welcome to our latest Buildings & Estates newsletter

We would like to share with you our eNewsletter which gives a snapshot of some of the work which we have been involved in recently. The Buildings & Estates team provide a wide range of facility services from Capital Development Projects to Heritage. We intend to publish our Newsletters at various intervals throughout the year and we hope that you enjoy the contents within this issue. If you have any feedback we would be delighted to hear your views.

Mr Mark Poland
Director of Buildings & Estates, UCC

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Lapp's Quay

The New Centre for Executive Education is located at the refurbished Cork Savings Bank at No. 1 Lapps Quay/16 Parnell Place.

Built in 1842, the historic building was for years used by the Cork Savings Bank. The building was designed by Thomas and Kearns Deane. Kearns Deane later went on to design the Main Quadrangle for Queen's College, now UCC.

Located in the city centre on a corner site overlooking the south channel of the River Lee, this modern and convenient space will benefit from increased business engagement, stimulating research and fostering innovation.

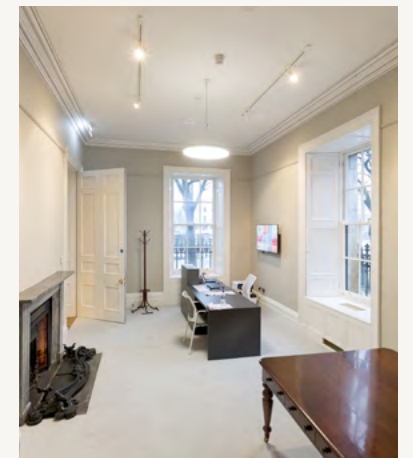
The building will act as a hub for executive

education, housing Cork University Business School and the Irish Management Institute programmes based in Cork.

At the heart of the redevelopment at Lapps Quay is the restoration of the historical banking hall. This large space will offer additional conferencing opportunities.

At 1300m², the building will provide a mix of teaching space and course rooms for programmes for post-grads and mid-career professionals in areas such as graduate management, leadership, technology and financial services.

The first Executive Education Programme was held in the new facility in November 2018.





Perrott's Inch

The recently completed Pedestrian Bridge at Perrott's Inch is due to have its official opening in December 2018.

The bridge was developed in order to link the lower grounds of the UCC Campus to Perrott's Inch and is an important part of the overall UCC Environmental Plan.

To complement the opening of the bridge, UCC will also open a new pedestrian gate on Western Road, with new pathways and landscaping through Perrott's Inch. A river side walk linking the visitor car park directly to the campus will also be opened.

This will create a new and attractive area on the lower grounds for both staff and students of the University and for the wider local community.

Cork Centre for Architectural Education

The recently renovated Western Apex Building, at Nano Nagle Place on Douglas Street, is the new home of the Cork Centre for Architectural Education.

Both the BSc (Honours) in Architecture and the Master of Architecture (M.Arch) Degrees, jointly offered by Cork Institute of Technology (CIT) and University College Cork (UCC) will be housed in the Western Apex Building.





Work on the **Student Hub** is progressing well, expected completion in early 2019.



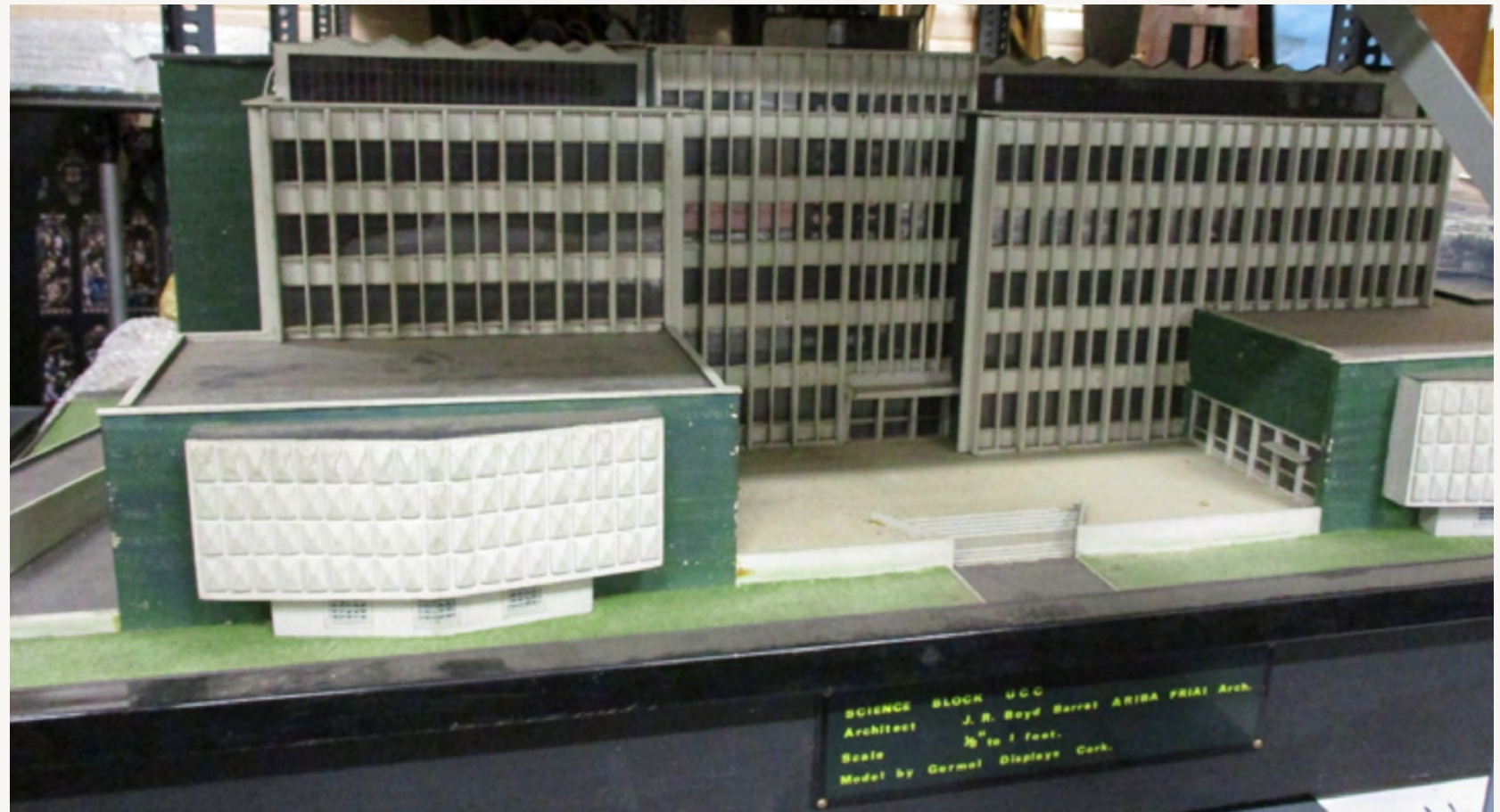
The **Health Innovation Hub**, due to be the first building in the Cork Science & Innovation Park at Curraheen, is currently being tendered by Buildings Contractors. Construction is expected to commence in Spring 2019.



Planning permission was granted for new student accommodation at the **Crow's Nest** in March of this year.

In line with the University's Strategic Plan (2017 - 2022) we plan to update the existing 2011 Physical Development Strategy / Masterplan. The new plan will provide guidance on the physical development of the university from 2019 onwards. A team led by Reddy Architecture have been appointed to prepare the masterplan.

Heritage Services, Buildings & Estates Office, UCC

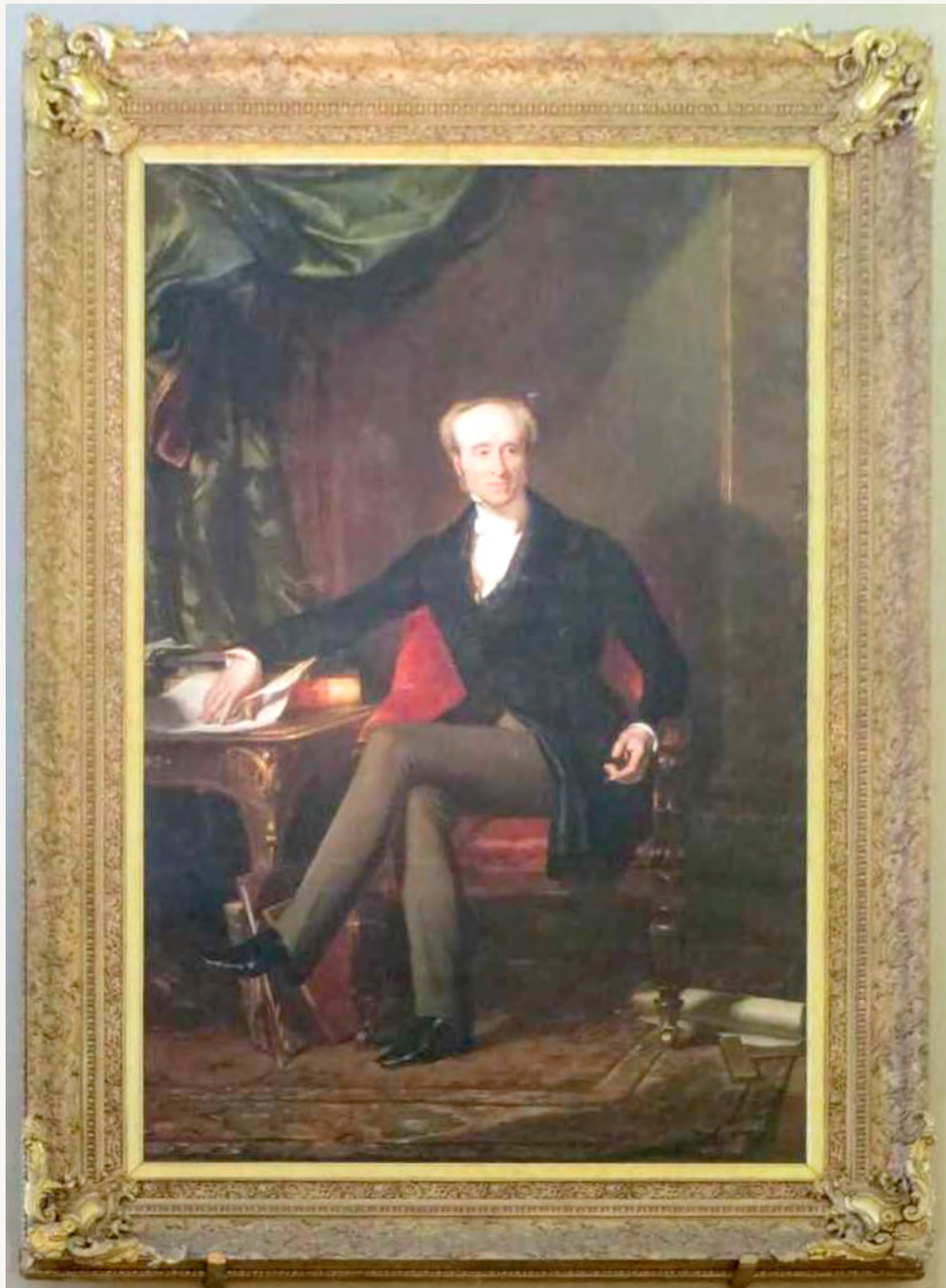


An important part of the work of Heritage Services is to catalogue the over 9,500 objects that are in the UCC Curatorial Collections. These have now been recorded in the UCC Curatorial Collections database with information about each object together with a photograph. Work is ongoing to improve information about each object so that the University will know what is in the UCC Collections and research projects will be able to exploit the same. Recently, information about the portrait of John Craig in the former Cork Savings Bank was provided to support the opening of the new Centre for Executive Education at Lapp's Quay. The Curatorial Collections range from historical and more modern

scientific instruments, plaster casts, portraits and furniture to paintings, signage and architectural models. There are nine such models, most of which relate to Main Campus.

For example, the oldest architectural scale model is of the Science (now Kane) Building. It is constructed on a scale of 1/8in to 1 foot. Architect: J. R. Boyd Barrett ARIBA FRIBA Arch. Maker: Gormol Displays, [Cleve Hill, Blackrock Road,] Cork. The building was under construction of the building in 1969 and was completed in 1970. The building was named the Kane Building in 1997 after Sir Robert Kane FRS, the first President of Queen's College Cork.

Portrait of John Craig, by William Fisher



The portrait, by Cork artist William Fisher, was presented in 1844 on the occasion of the testimonial by the Trustees and Managers of the Cork Savings' Bank in their new building to John Craig, then Treasurer of the CSB.

John Craig was born in 1790 in New Kilpatrick, Dunbartonshire, Scotland. He operated as a businessman but also gave back to the community by his work with the Cork Savings Bank.

After his arrival in Cork, in 1837, he became Treasurer of the Cork Savings Bank, a voluntary position. He was elected trustee of the CSB on 16th April 1839 while it was still located on Pembroke Street. The bank had a large surplus in 1839 (the total funds of the bank were more than £250,000), part of which funded the fine building on Lapps Quay, which opened in 1842.

Craig lived at Horsehead House, Passage West, with his family from March 1849 onwards. He died on March 23rd, 1868 and was buried at Passage. Craig was survived by his wife Susan Mason Craig. The portrait will be on display from November, as John Craig comes home to Lapps Quay.



Minor Projects – Michael O’Sullivan

Project Chosen: The Kjeldhal Lab, Room 226, Food Science Building

The Kjeldhal Lab



Before Picture



After Picture

The **Kjeldahl** method in analytical chemistry is a method for the quantitative determination of nitrogen contained in organic substances plus the nitrogen contained in the inorganic compounds ammonia and ammonium ($\text{NH}_3/\text{NH}_4^+$).

The Kjeldahl method was developed over 100 years ago for determining the nitrogen contents in organic and inorganic substances. Although the technique and apparatus have been modified over the years, the basic principles introduced by Johan Kjeldahl still endure today.

Kjeldahl nitrogen determinations are performed on a variety of substances such as meat, feed, grain, waste water, soil, and many other samples. Various scientific associations approve and have refined the Kjeldahl method, including the AOAC International (formerly the Association of Official Analytical Chemists), Association of American Cereal

Chemists, American Oil Chemists Society, Environmental Protection Agency, International Standards Organization, and United States Department of Agriculture.

The project renovation of the lab included the replacing the three standard fumehood with wet scrubbers. These filter out acids and prevent them from being released into the environment.

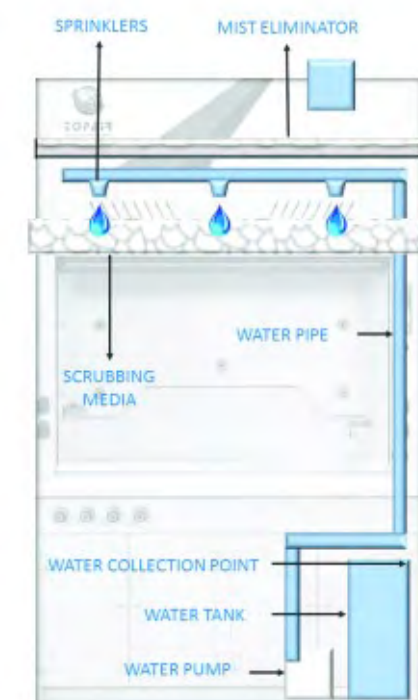
The scrubber is built-in as an integrated part of the cabinet. The system features a quality scrubbing media which collects mist and chemicals and channels them down to the water tank. Its upper eliminator prevents mist from reaching the exhaust fan.

The Fume Cupboards protect laboratory staff from noxious fumes released by acids, dangerous gas and organic solvents- materials and acids which regular steel hoods may not withstand.

There is also a mechanically vented chemical storage unit, installed in a previously unused void located under the window.

The lab now has a dedicated chemical free clean area for research staff to put on protection apron, face visor and heat/acid resistance gloves prior to entering the wet lab.

The wet lab has now a dedicated chemical shower and eye wash for use in emergency chemical spills.



Engineering Services: Kevin O'Regan, Ger O'Sullivan and Tony Carey
Project Chosen: MV Electrical Shutdown on Main Campus

High Voltage Electrical Shutdown 21st & 22nd July 2018

The Main Campus, is like a big Town, with 21,000 Students and 2,800 Staff. It runs like a well-oiled machine during the year, delivering World Class Teaching and Research. The smooth running of the University, is underpinned however, by significant physical infrastructure, the High Voltage (HV) (10,000V) Electrical Network, being just one of them.

Everyone knows, that if you don't change the Timing Belt in your car, eventually the Engine could be destroyed. So it is with the HV Network, serving the Main Campus, UCC, it must be shut down for essential maintenance, periodically, to ensure reliability in service. This includes inspection of all Transformers & Switchgear, testing of all Safety Device, replacing parts etc.

Opportunity was taken during the shutdown, to carry out preliminary works associated with the Electrical connection of the new HUB Project, and the ongoing HV Cable Replacement Programme, and Network Upgrade to full 'Ring Main' System.

The Shutdown dates (21st & 22nd July 2018) were chosen, in liaison with the Registrar's Office, to minimise disruption to the University.

An extended Electrical Shutdown of the Main Campus UCC, is a huge logistics exercise, and has its own unique set of challenges. Many critical

equipment /facilities needed to be kept going, at the same time. This included maintaining supply to nearly 600 Critical Research Equipment items, Security Cameras, distributed throughout the Main Campus, Telephone Exchange, all external IT Services, etc. In addition to UCC's own standby generators, we had to hire in five additional generators.

This year, it was business as usual for the Main Rest, who had to provide meals for the Teams of the Six Nations U16 boys & girls hockey tournament, in the Mardyke, that weekend, hosted by the UCC Sports Department in association with the Irish Hockey Association. They also had international rowing teams from England and Wales and the Summer Schools.

Investment in the **Kane Data Centre** UPS /Generator System, installed in recent years, really proved itself, during the Electrical Shutdown. It ensured uninterrupted power to the Kane IT Servers, throughout, making it Business as usual, for all Remote Access users, to UCC IT Services, the UCC Website, Email, third party IT Servers etc.

The detailed Planning, the investment in Generators/ UPS etc., really paid off; it was a huge success. Sincere thanks to all the dedicated Technicians, Lab Managers, IT Services Staff, B & E Office Staff, Contractors & everyone who helped to make this Project a success.



Emergency Generators

Buildings and Estates Staff Honoured



Front row (l-r): Kieran Murphy (UCC), Ger O'Sullivan (UCC), Prof. Patrick O'Shea (UCC), Paul O'Connor (UCC), Kevin Crean (UCC). **Back row (l-r):** Tony Carey (UCC), Liam O'Shea (Firecrest), Jer Creedon (UCC), Philip Hogan (UCC), John Punch (UCC).

On 12th of September 2018, UCC President, Professor Patrick O'Shea honoured Buildings and Estates (including General Services) and contracting staff with a special reception in the Aula Maxima for dedication to duty relating to high profile events throughout the previous twelve months, including but not limited to the following: Government of Ireland Cabinet Visit, Ireland 2040 visit of An Taoiseach, Dr. Leo Varadkar, the visit of His Royal Highness, Charles, Prince of Wales, the National Famine Commemoration which was presided over by Uachtarán na hÉireann, Michael D. Higgins, preparations for and clearing up in the aftermath of Category 3 Atlantic hurricane, Storm Ophelia and Winter Storm Emma.

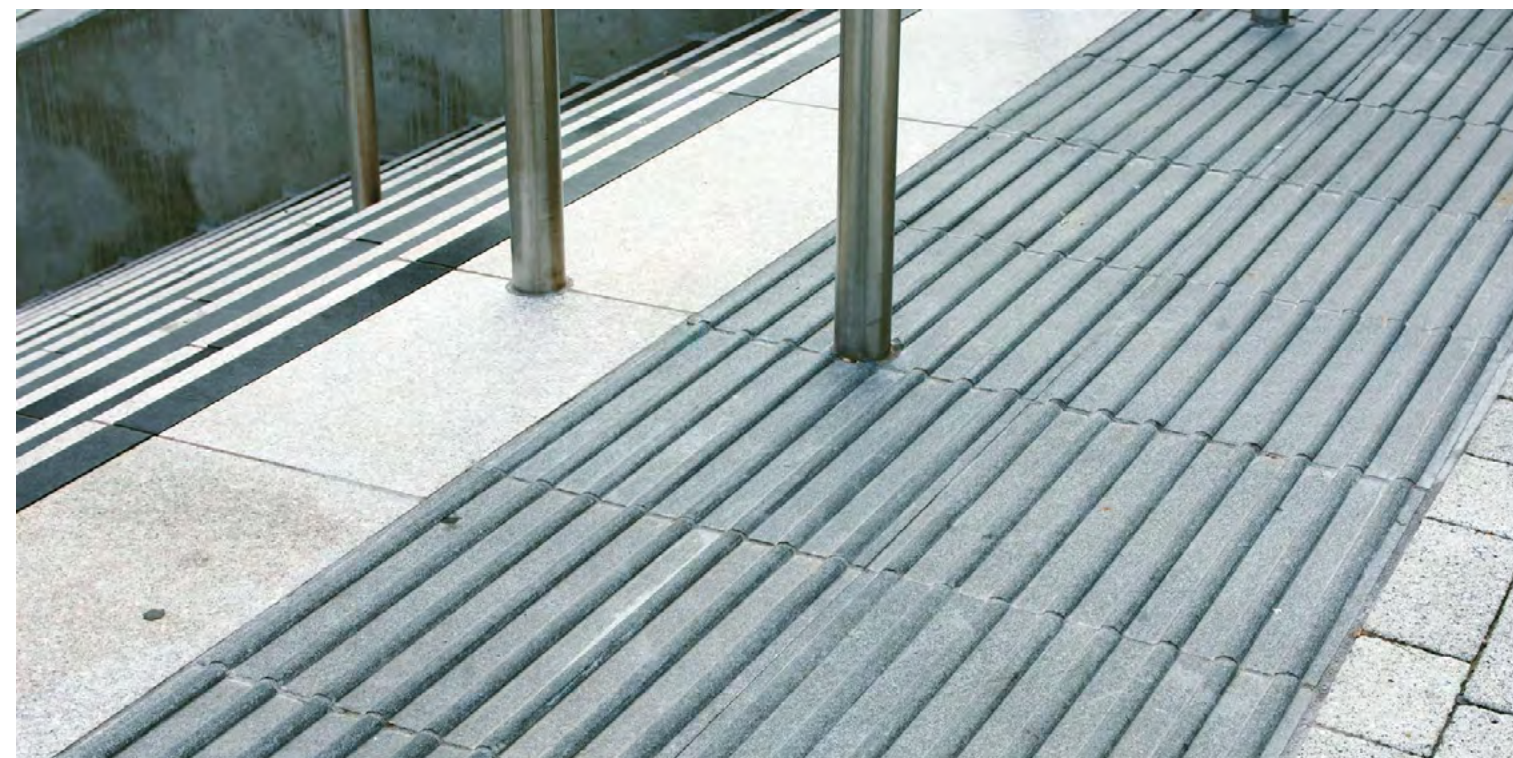
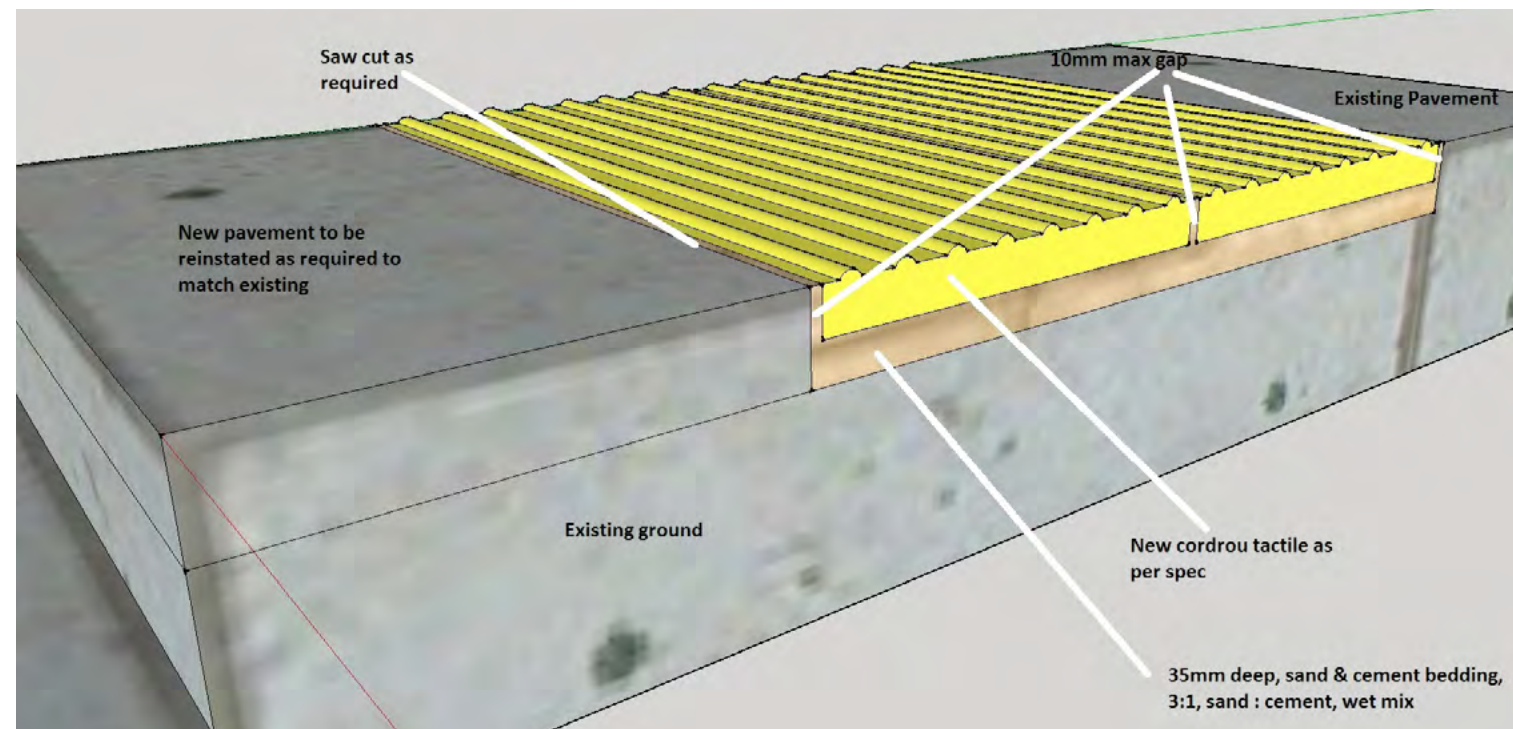
We wish to thank President O'Shea for recognising the contributions of Buildings and Estates to the life of the University, as a token of appreciation, President O'Shea was presented with a plaque which was craft by our team members from a tree which had been destroyed and a slate which blown from a roof during Storm Ophelia. Aptly, the slate was carved into the shape of the province of Munster.

Buildings Maintenance: Ross O'Donovan and Patrick Quinn
Project Chosen: Corduroy Tactile Paving

A need was identified with UCC's ever increasing visitor numbers and student cohort that we should endeavour to make our public areas more accessible and safer to visitors, students and staff with visual impairment. To that end the Buildings Maintenance section have engaged in a Corduroy Tactile Paving contract.

Corduroy Tactile Paving is a ground surface indicator which is often installed near steps, stairs, footpaths at road crossings and railway platforms used to assist individuals with visual impairment. With this project UCC particularly wished to address the risk that steps pose as a potential trip hazard for visually impaired people. Tactile paving enables individuals to negotiate potentially hazardous obstacles by use of a long 'hoover' cane.

The Buildings Maintenance team engaged in a comprehensive an on-going project to install Corduroy Tactile Paving Systems throughout UCC Campus. Tactile paving was recently installed on the Honan Plaza, thereby making one of the Campus' most visited sites safer for our students, staff and visitors.



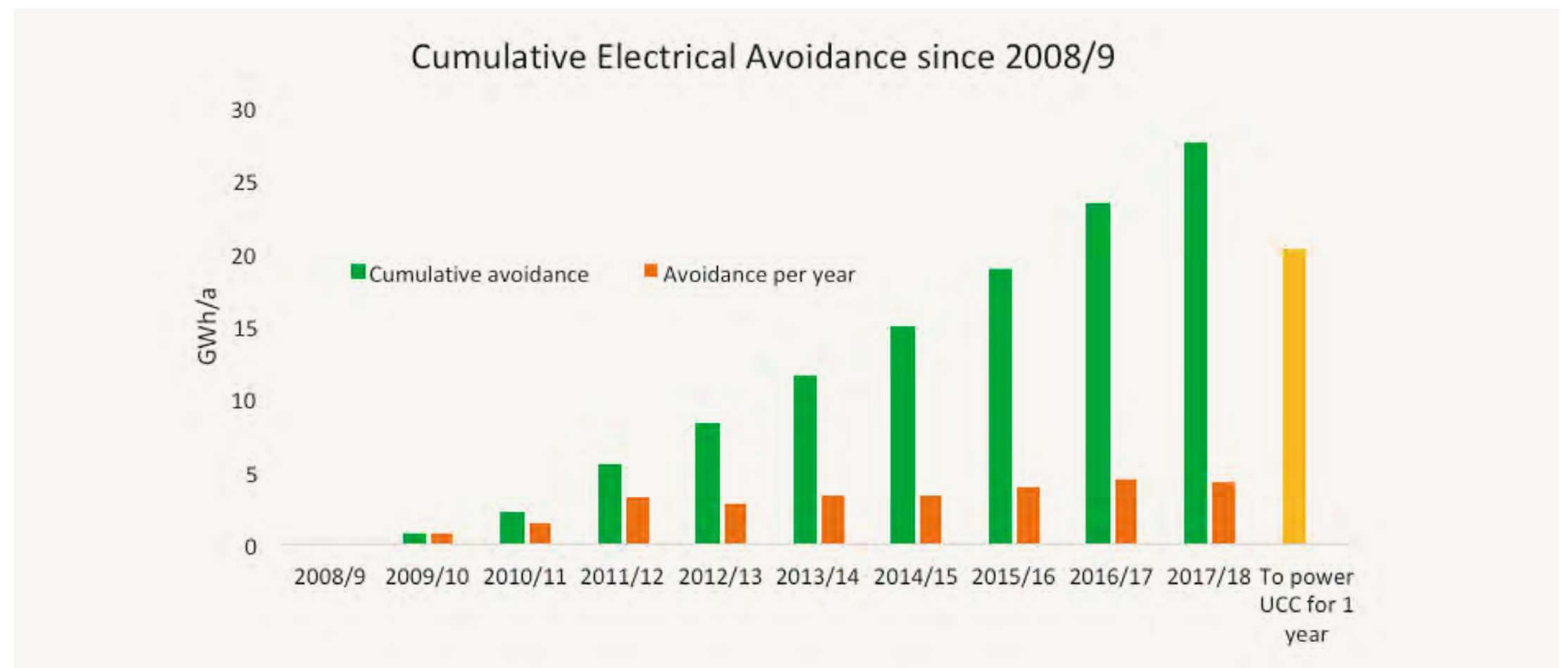
Energy Performance Academic Year 2017/18 Update



With 32 energy saving projects / programs implemented in 2017/18 we are delighted to report an annual reduction of 500,000 kWh across our significant electrical energy users. With grant funding secured from the SEAI, Aidan O'Dwyer and Brian Walsh in the Minor Works department oversaw the installation of 1,200 LED light fittings in the North Mall complex which will reduce the electrical load by 125,000 kWh per annum while a new heat pump and PV array were installed in Aldworth on Donovan Road. A new server based building management system (BMS) was installed in the O'Rahilly Building, giving greater visibility and control over

the heating and ventilation systems which will greatly assist us in improving the internal environment within the building while also saving energy. A special word of thanks to Barry O'Sullivan and his team in the IT networks department for their assistance.

Our saver saves scheme continues to perform with €61,000 of savings achieved by our friends in the Boole Library, Cavanagh Pharmacy, ERI and the Glucksman Gallery. The savings have already been reinvested within the buildings to further improve the sustainability of the buildings.



As part of her work placement over the summer, Vera O’Riordan, a 4th year student in the sustainable energy course completed a study on the potential PV capacity across the campus roofs as well as the potential for battery storage and demand response schemes and we look forward to building on Vera’s great work while increasing our use of renewable energy across the estate.

Energy projects planned for 2018/19 include the extension of the PV array on the O’Rahilly Building, installation of LED lighting at the ERI and BMS upgrades to the Main Quadrangle, Food Science and Cavanagh Pharmacy building to list just a few. With these and many more projects in the pipeline we look forward to building on the €4,000,000 savings achieved and the 28,000,000 kWh of electrical consumption that has been avoided over the last decade.

Lastly don’t forget to check out our social media campaign, WattsOnUcc, which gives students and staff the opportunity to highlight areas of energy wastage via social media and provide direct feedback to the Buildings and Estates department here on UCC’s Main Campus. Students and staff can send in their pictures of locations where they spot areas of energy wastage such as lighting in unoccupied buildings, unattended projectors and devices left plugged in. Alternatively, students and staff can provide a quick description of the energy wastage source and its location through social media sites listed below. With over 30% of our

energy consumption taking place while the campus is closed there is still a huge opportunity to save energy on campus but with 130 buildings under our care, it’s near impossible to catch every single one. Imagine the impact that 20,000 energy managers could have our energy conservation efforts.

Check out the campaign at:

Facebook: www.facebook.com/UCCWattsOn/

Twitter: [@wattsonucc](https://twitter.com/wattsonucc)

Instagram: [@WattsOnUCC](https://www.instagram.com/WattsOnUCC)

Snapchat: [wattsonucc](https://www.snapchat.com/add/wattsonucc)



PV array in Aldworth

STARS

Ireland’s University College Cork has become the first institution outside of North America to achieve a gold star rating from the Association for the Advancement of Sustainability in Higher Education (AASHE). UCC now joins Princeton, Cornell and UC Berkeley in receiving the highest standard, Gold ‘Sustainability Tracking Assessment and Rating System’ (STARS) for excellence in sustainability.



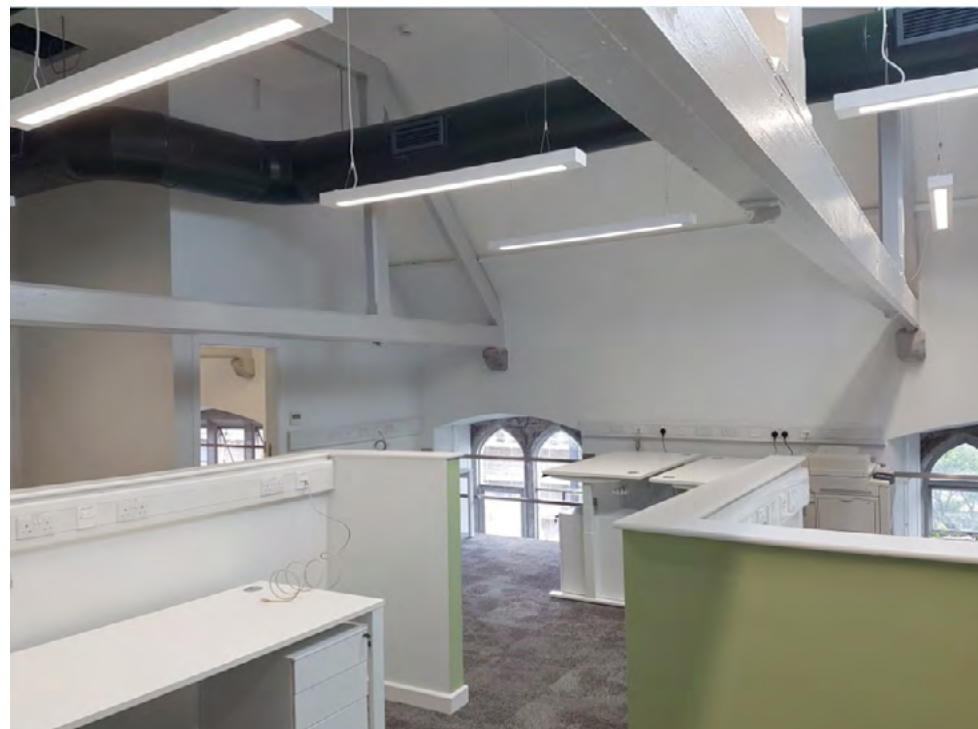
Minor Projects: Michael O’Sullivan.

A number of refurbishments have been undertaken on behalf of Units across campus throughout the year. Below is an example of one such project.

Project Chosen: Graduate Studies Office

Graduate Studies Office

The Minor Projects team were engaged to refurbish the existing Graduate Studies Office on the 2nd Floor of the West Wing Main Quadrangle. The project entailed opening up and demolishing the ceiling and inserting new heritage roof lights. Original features such as limestone corbels were exposed for effect. Limestone windows were stripped allowing them to breathe again. A new water supply was installed. All data, electrics and the air-conditioning and heating systems were upgraded. The layout was vastly upgraded in terms of space usage and ergonomically, facilitating improvement in the conditions for staff and student users.





A Summer's Evening on the Quad at UCC - 14 July 2018

Over 2,200 people from around Munster gathered on the Main Quad to enjoy the music of the Definitive Rat Pack, supported by Karen Underwood and backed by the Band of An Garda Síochána, at a unique, open-air, seated concert on 14 July 2018. Now in its 13th year, the concert raised over €60,000 for the chosen charity partners (Enable Ireland, Diabetes Ireland - Cork, Dogs for the Disabled and the Westgate Foundation) who offer life-changing support to so many members of our community, bringing the overall monies raised by this concert series to date to over €650,000.



With a strict ethos that 100% of the monies raised through ticket sales goes directly to the charities, this concert would not be possible without the continuous support and sponsorship of Cork University Business School, Bank of Ireland, the Tomar Trust and O'Donovan Agri Services, as well as Cork's 96FM, Evening Echo and the River Lee Hotel. By the very nature of this concert, it offers easy accessibility to all and represents a significant opportunity to support community engagement for the university.

Coordinated by a small committee comprising staff from Events/Marketing & Communications and HR, as well as staff from the General Services Security Team, entirely on a voluntary basis, this concert is a great example of the value of civic volunteerism within UCC.

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