

FACULTY NEWSLETTER

ENGINEERING & THE BUILT ENVIRONMENT

MESSAGE FROM THE DEAN



As the first quarter of 2025 has come to an end, I am pleased to share some of the updates, highlights, and achievements from the faculty. This quarter, we sadly lost three respected academics, Emeritus Professors Julian Cooke, Kevin Bennett and Tony Kilner.

We are proud to celebrate our achievements, including the Centre for Minerals Research team's award-winning work in tailings management, which earned them the prestigious Mining Indaba Innovation Award. Prof Marianne Vanderschuren's appointment as the Institution of Civil Engineering (ICE) South African representative and Dr Amber Abrams' international CSID fellowship, highlight the global contributions of our academics.

Several key events took place, including the staff welcome-back (very well attended), the Orientation programme, EBE Fun Day, and more recently, UCT Open Day. A major highlight was the Autumn Graduation, where we awarded 14 PhDs and over 600 degrees across our faculty. Thank you to all EBE staff who contributed to ensuring the success of our students, and who celebrated the graduation.

I am also pleased to note we are increasing our global impact in various ways. Recently, we signed a new partnership with École Polytechnique Fédérale de Lausanne (EPFL), aimed at strengthening research and teaching programmes in sustainable construction, as well as initiatives in the Centre for Research in Engineering Education (CREE). This includes PhD and master's programmes specialising in Engineering Education, which focus on developing transformative research capacities to support the systemic change needed for engineering academic development. Thanks to everyone in EBE for always showing up with commitment and for working towards excellence, innovation, and sustainability.

OBITUARIES



Emeritus Professor Julian Cooke passed away on 24 February at the age of 84.

Professor Cooke began teaching at the School of Architecture and Planning (now formally known as the School of Architecture, Planning and Geomatics) in 1976. Between 1990 and 2000, he was promoted to Professor and served as Director of the School until his retirement at the end of 2000.

Professor Cooke played a pivotal role in helping to establish the School as the leading academic School of Architecture in the country.

He also contributed towards shaping various programmes within the School, as well as crafting a curriculum which questioned the status quo, was politically progressive and anti-apartheid.

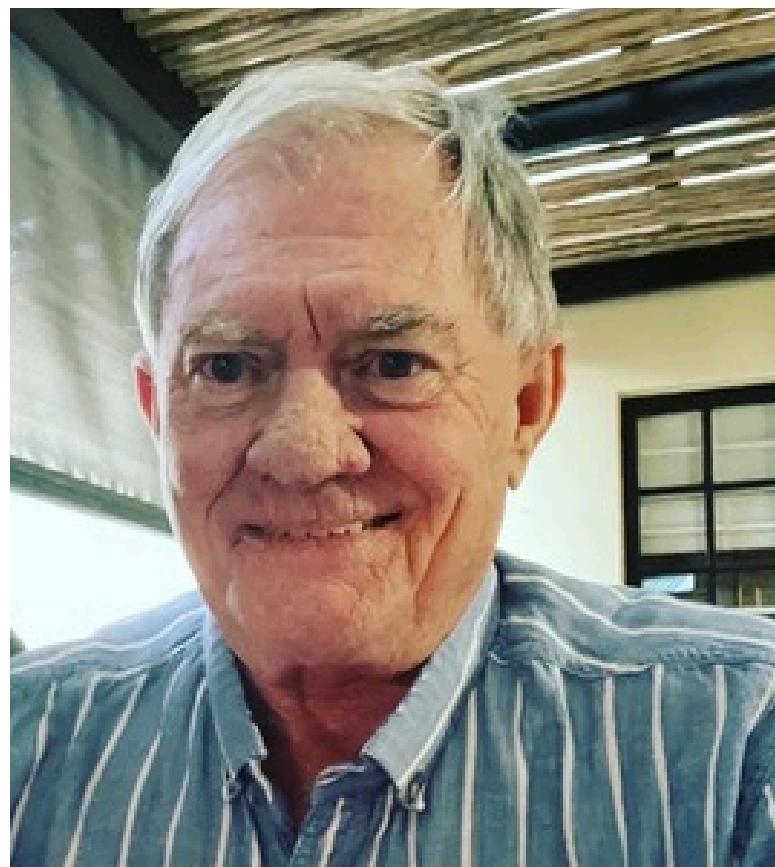
Student projects in both planning and architecture were regularly set within the urban and rural conditions of the city of Cape Town, and small towns nearby. Under Professor Cooke's and others' guidance, architecture was understood to be not only a formal artistic or sculptural pursuit but also a socio-political one.

Many described his lectures as always interesting and accessible. His calm reassuring voice would easily beam across a crowded room, and he would hold every student's attention very easily, in part because he made complicated ideas sound simple and accessible.

In recent years he came up with the idea of a project called "Ten dreams for Cape Town". This was a project that brought together many architects and urban designers, to rethink and, importantly to show, an alternative Cape Town that was more efficient, more equal, and more sustainable. This project at first culminated in a series of lectures for one of UCT's Summer School courses in 2019, with an accompanying exhibition. Later it was turned into a book titled "A Vision for a Future Cape Town".

[**Visit the tribute page for Emeritus Professor Julian Cooke**](#)

OBITUARIES



Emeritus Professor Kevin Bennett passed away on 5 March at the age of 77.

Professor Bennett graduated from the University of Cape Town with an undergraduate degree and a master's degree in mechanical engineering. He returned to UCT in 1975, where he joined the Energy Research Institute, completed his PhD in energy utilization in South Africa, and became involved in several research projects on alternative liquid fuels and renewable energy.

He then joined the Department of Mechanical Engineering as an associate professor, where he lectured in thermodynamics and fluid mechanics, and was promoted to professor in 1992.

In 2000, he took over as Director of the Energy Research Institute and after the merger between the Energy Research Institute and the Energy for Development Research Centre, he was appointed as Director of the newly formed Energy Research Centre until his retirement.

Professor Bennett also served as the Head of the Department of Mechanical Engineering from 1989 to 1993 and again from 2000 to 2001. He mentored undergraduate engineering students in the vacation training programme with Anglo American, De Beers, and Anglo Platinum mines for 25 years.

In addition, he was a fellow of The SA Institution of Mechanical Engineering (SAIMechE) and served on the International Panel to Assess the Effectiveness of Research at the Royal Institute of Technology (KTH), Stockholm, Sweden. During his time at UCT, he was also the Warden of University House residence for 24 years.

Colleagues who worked alongside Professor Bennett described him as a transformative and supportive leader, with a remarkable ability to solve problems, yet always humble. He consistently encouraged his colleagues to be innovative and made a significant contribution to South African energy research. They also fondly remember his fun-loving, mischievous personality and his keen eye for spotting mistakes and grammatical errors.

Professor Bennett is survived by his daughter Angie and his three grandchildren.

OBITUARIES



Professor Kilner was born on 5 February 1928 in Manchester, England. In 1945, he was awarded a scholarship to Oxford and went to Brasenose College, where he studied until he graduated in 1948. He then moved to London to pursue his master's degree at Imperial College.

He joined the Department of Civil Engineering at UCT as a lecturer in 1953 and remained at UCT until his retirement as Emeritus Professor in 1993. During his time, he also served as Head of the Department of Civil Engineering. Professor Kilner had a passion for hydraulics, and in particular coastal engineering. One of his projects involved the seawater inlets for the Koeberg Nuclear Power Station, the first (and only) nuclear power station in South Africa.

Together with some talented technical colleagues at UCT, he designed and built automated submersible sediment samplers.

In 1974, he became warden of UCT's College House residence. He had a great passion for classical music and could remember everything he heard. He also loved pets and had many cats and one dog, his beloved black Labrador, Marco.

Past students and family describe Professor Kilner as someone who opened their eyes to the fascinating sciences related to the ocean, and many greatly appreciated both his friendship and the invaluable input he provided in their lives.

When it came to lecturing and teaching, he was often described as being 'on another planet' compared to other lecturers. He had a unique ability to make even the most complex subjects seem simple and obvious. Many considered themselves lucky to have been one of Professor Kilner's students. He was deeply loved and respected, and his past students and colleagues will forever treasure the many fond memories he left behind.

He is survived by his sons Richard and Simon Kilner.

STAFF WELCOMES

- **Dr Rouve Bingle** joined the School of Architecture, Planning and Geomatics as a lecturer.
- **Dr Alfred Chitongo** joined the Department of Construction Economics and Management as a Senior Lecturer.
- **Mr Pitsi Mamabolo** joined the Concrete Materials and Structural Integrity Research Unit (CoMSIRU) within Civil Engineering as a Lab Assistant.
- **Mr Obakeng Hlungwani** joined the Department of Chemical Engineering's Catalysis Institute as Technical Assistant.
- **Mr Thulani Nyathi** joined the Department of Chemical Engineering as Lecturer.
- **Mr Ishaaq Hajee** joined the Department of Chemical Engineering as Lecturer.
- **Mr William Fourie** joined the Department of Mechanical Engineering as Research Finance Administrative Officer.
- **Mr Mpho Baisitse** joined the Dean's Office as Research Projects Coordinator .

STAFF FAREWELLS

- **Dr Lisa October** left the Department of Chemical Engineering.
- **Dr Gideon Wiid** left the Department of Electrical Engineering.
- **Dr Caitlin Courtney** left the Department of Chemical Engineering.
- **Ms Nobukhosi Dlamini** left the Department of Electrical Engineering.
- **Mr Matt Church** left the Department of Electrical Engineering.

EBE Faculty Welcome Back Event

The Faculty hosted its annual Welcome Back to Staff event in February, bringing colleagues together at the start of the academic year. The event was very well attended and provided a great opportunity for staff across departments to reconnect and share updates.



AWARDS AND HONOURS

UCT-Metso researchers win innovation prize at Mining Indaba



UCT-Metso researchers pictured from left to right: *Florence Drummond (DPI); Dr George Maluleke (executive head of Corporate Affairs & Sustainability, Anglo American Platinum); and the winners, represented by Diana Kaysmova (academic researcher, Metso) and Dr Lisa October (senior lecturer, UCT); and Dr Alecia Ndlovu (senior lecturer, UCT) and Norman Mukwakwami (Global head of Responsible Sourcing, Trafigura).*

In a significant achievement, a team of researchers from the Centre for Minerals Research (CMR), in collaboration with Finnish global industry leader in minerals processing, Metso, clinched top honours at the Investing in African Mining Indaba conference, popularly known as the Mining Indaba. They were awarded the prestigious Mining Innovation and Research Battlefield prize for their newly developed process, which is poised to redefine the future of tailings management in the mining industry.

At the heart of their innovation is a water recycling system that enhances mineral recovery in mining while significantly reducing waste – potentially even eliminating wastewater altogether. What sets the UCT-Metso team's approach apart is its adaptability. Unlike conventional methods, their system considers the unique chemical makeup of different water sources.

"Current circuits don't account for the fact that different minerals require different water chemistries, thus not taking key advantage of fit-for-purpose waters for optimal performance," explained Professor Kirsten Corin, the head of Flotation Chemistry at CMR. The UCT team consisted of senior lecturer Dr Lisa October, post-doctoral researcher Dr Rešoketšwe Manenzhe and Professor Corin. While Metso's team comprised of academic researcher Diana Kasymova, eco-system senior manager Dr Eija Saari and technology director Professor Kari Heiskanen.

[Read more](#)

AWARDS AND HONOURS

Future Water Institute's Dr Amber Abrams receives international fellowship from Climate Sensitive Infectious Disease (CSID).



Dr Amber Abrams from the UCT Future Water Institute recently received an international fellowship from Climate Sensitive Infectious Disease (CSID). This inaugural cohort consists of five outstanding individuals who will build and strengthen local CSID communities, addressing pressing challenges at the intersection of climate-sensitive infectious diseases, open science, and community-driven action.

Amber is one of five international fellows and one of two Africans who were elected.

The CSID Network Fellowship was created to support local and regional communities of practice in areas affected by CSID, ensuring that research and tool development are grounded in their context and responsive to local needs.

Amber has extensive experience in public health, research, and community engagement, particularly around water-sensitive urban design. Her project will create open-access tools for local residents dealing with surface water challenges. By developing networks that integrate citizen science with municipal planning, she aims to improve water-related infectious disease monitoring and response, building an early warning system for communities and policymakers alike.

Prof Marianne Vanderschuren Appointment as South African representative for Institution of Civil Engineering (ICE)



Prof Marianne Vanderschuren was elected as the new Institution of Civil Engineering International (ICE) representative for South Africa.

The ICE is a 97,000-strong global membership organisation with over 200 years of history. They are a centre of engineering excellence, qualifying engineers and helping them maintain lifelong competence, assuring society that the infrastructure they create is safe, dependable and well designed. Their network of experts offer trusted, impartial advice to politicians and decision makers on how to build and adapt infrastructure to create a more sustainable world.

AWARDS AND HONOURS

NEW ACADEMIC PRACTITIONERS PROGRAMME (NAPP)

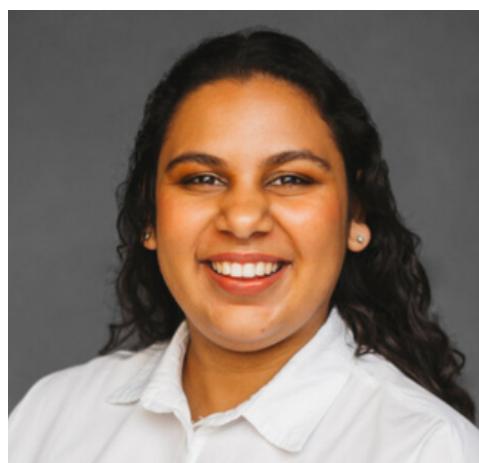
The New Academic Practitioners Programme (NAPP) is a holistic programme of professional development for new academics at UCT, with less than five years' experience in higher education. As an induction programme, its key focus is to strengthen resources and practices necessary for new academics to develop as educators, researchers and members of the UCT community.

In 2024 five EBE academics successfully completed the programme and were invited to a celebratory cocktail function hosted by UCT Vice-Chancellor Professor Mosa Moshabela to honour the participants of the last two cohorts. The event was also attended by deans and UCT executives.



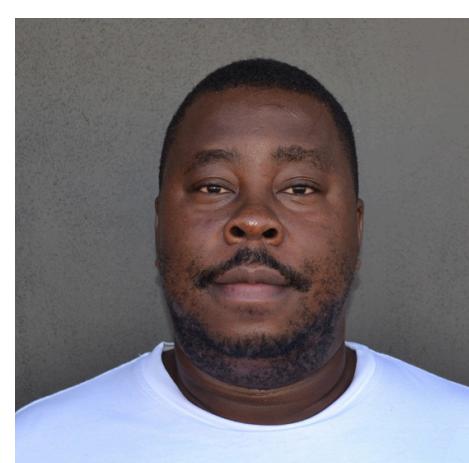
Dr Sara Burness

Department of Chemical
Engineering



Ms Kalpana Maraj

Department of Chemical
Engineering



Mr Billy Mashele

Department of
Construction Economics
and Management



Dr Elizabeth Musvoto

Department of
Construction Economics
and Management



Dr Rolien Terblanche

Department of
Construction Economics
and Management

IN THE NEWS



UCT researchers further global effort to study Antarctic ice loss

In a groundbreaking mission, a team from the Polar Engineering Research Group (PERG) at the University of Cape Town (UCT) has set off on their first field expedition on the Antarctic continent. Led by Professor Sebastian Skatulla, this diverse group includes five postgraduate students: Kamva Tabata, Richard Ribbans, Tom Ansley, and Chisambo Ng'ambi, along with experienced field guide Hendrik Smith.

[Read more](#)

The impact of informal settlements on water quality

Emphasising the urgent need for intervention in water management policies and bringing all role players on board, Kalpana Maraj, a lecturer in chemical engineering and PhD candidate at UCT's Future Water Institute, presented her findings at the 14th International Water Association (IWA) Water Reclamation and Reuse Conference, which took place in Cape Town.

Maraj's research is based at the Water Hub in Franschhoek, a unique research site housed in an abandoned wastewater treatment facility.

[Read more](#)

Launch of the LEAD Alumni programme at African Mining Indaba



The LEAD (Leaders in Extractives and African Development) CPD programme is hosted and convened by Minerals to Metals in the Department of Chemical Engineering in partnership with the Investing in Africa Mining Indaba. The programme laid the foundation for continued collaboration, innovation, and knowledge sharing among emerging mining leaders.

It now has over 150 Alumni who have been making waves all over the continent, including at the recent African Mining Forum held by the African Minerals Development Centre.

[Read more](#): Source: [African Mining Review](#)

FACULTY NEWS

Menzi Design Lab: Bringing Innovation to Life

The Menzi Design Lab provides a world-class design and production environment to students and researchers, so that they can transform their ideas into prototypes and IP, using design for manufacture principles (DFM). It is a space and environment for the UCT community to turn ideas into real, tangible objects, to collaborate, share-spaces, be creative, to tinker and learn.

Recent highlight from the Menzi Design Lab include:

Drone Package Delivery Device

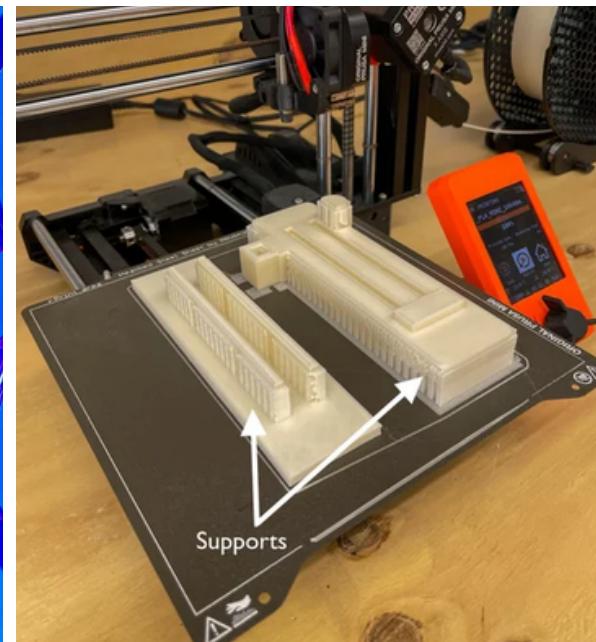
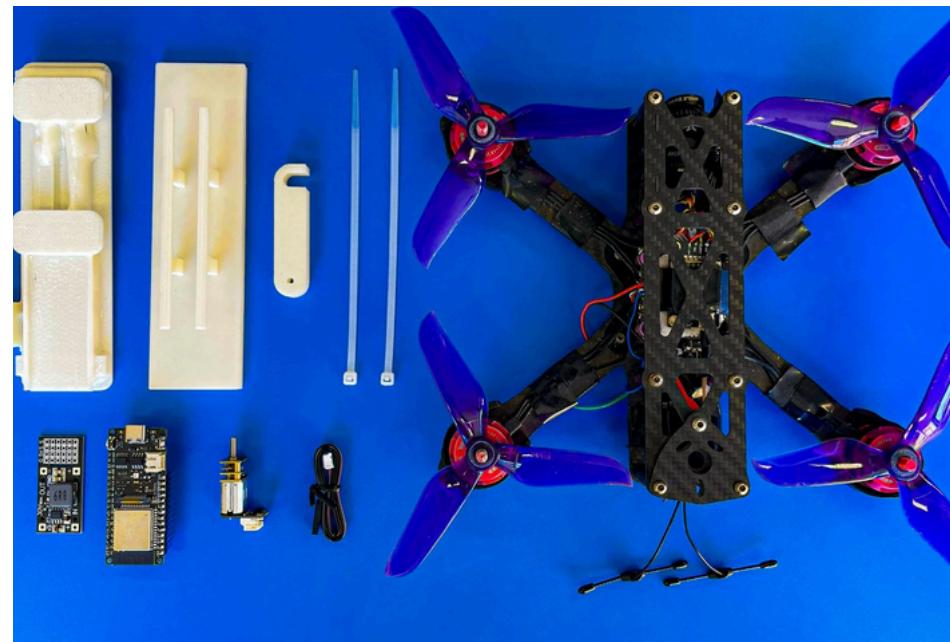
The purpose of this project was to develop a package delivery device for an existing drone that had already been built. This project was led by Iloke Alusala, an undergraduate student in the Electrical Engineering department. The design needed to be original as it would need to fit the unique properties of the current drone but also allow for future modifications to allow it to be utilised on other drones. Iloke went through multiple iterations of the design with the final design being streamlined using generative AI. Flight testing as well as delivery drop testing was conducted at UCT and proved successful.

The project was entered into the Autodesk Make it Move Engineering Student Contest and was awarded the Design & Make Judges' Prize. Part of the requirements for entry into the contest was to develop a full 'Instructable' which refers to a detailed tutorial that guides the viewer to recreate the project.

Below is the website link to the Instructable process written by Iloke Alusala:

<https://www.instructables.com/Turn-Any-Drone-Into-a-Delivery-Drone/>

To get involved or find out more about the Menzi Design Lab, contact Yusuf.vawda@uct.ac.za.



Pictured above are the tools and equipment used in conceptualising the Drone Package Delivery Device.

FACULTY NEWS

CREE Welcomes International Students

The Centre for Research in Engineering Education (CREE) has welcomed students from countries across Africa for PhD and Masters degrees specializing in Engineering Education as part of the Capacity Building for Engineering Education Practice and Research (CB4EE) Project. The focus of this project is on developing transformative research capacities and the co-creation of actionable knowledge to inform and support systemic change needed for engineering academic development and integration of modern global challenges.

CREE also has a strong national profile which is sustained through publications and involvement in national conferences and workshops on engineering education.



Pictured here are CREE staff members with the international students specializing in Engineering Education as part of the Capacity Building for Engineering Education Practice and Research (CB4EE) Project.

Back row: Ivan Illemut, Sullyman Greatman Mansaray, Faith Nleya, Clifford Musimbi, Doris Chasokela, Michelle Maphosa, Refiloe Faith Sharne Mokhethi, A/Prof Corrinne Shaw

Middle row: Taneha Hans, Dr Nicky Wolmarans, Comfart Musiimenta, Joseph Obbo, Gavin Ninshaba, Nelson Bett, Vicent Rutagangibwa, Susan Kisengu, John Ziine, Dorothy Maina

Kneeling: A/Prof Bruce Kloot, Eudes Kabeya Tshitshonu, Ms Denise Botha

Absent: Oluwagbenga Adeniran, Mike Nyangaga, Wington Namagowa

FACULTY NEWS

(Y)our UCT Campus Nexus exhibition

The (Y)our UCT Campus Nexus studio exhibition recently held at the d-school provided a creative platform for the UCT community to share ideas, designs, and proposals in a collaborative space. Dr Sarah George was part of the coordinating team, and several EBE staff members were involved in developing the concept and curating the exhibition. Current and past EBE graduates also showcased their work.

A diverse showcase, discovered through creative works, explored themes central to our campus: the landscape and natural surroundings, the built environment and the spaces between, multimodal transportation in and around campus, shared heritage, transformation, community, and spirituality.



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Justin.Marthinus@uct.ac.za

FACULTY NEWS

Empowering Municipalities: A Reflection on the "Municipal Infrastructure Project Preparation" Course

The South African government has repeatedly stated the need to urgently increase private sector investment in public infrastructure generally (and municipal infrastructure specifically), as government alone is unable to meet the infrastructure investment demand. One of the key challenges that have hindered this good idea is the absence of a bankable infrastructure project pipeline (projects that are investment ready). The development of a project pipeline requires skill and expertise that many municipalities do not have. Noting this gap and being mindful of UCT's desire to contribute meaningfully to South Africa's development, as evidenced by the various agreements UCT has with government departments and entities. The Department of Civil Engineering's Urban and Public Infrastructure Research Initiative (UPIRI), the South African Local Government Association (SALGA) and the Continuing Professional Development Programme developed and offered a course that contributes to addressing this skill and knowledge gap , by equipping municipal officials with the practical knowledge and tools necessary to navigate the challenges of preparing infrastructure projects for private sector investment.



Pictured here are participants who attended the course.

Key Highlights from the course:

- **Bridging Theory and Practice:** The course seamlessly integrated theoretical concepts with practical applications, including real-world case studies and hands-on exercises. This approach allowed participants to apply their learning directly to their roles and responsibilities.
- **Comprehensive Coverage:** The curriculum encompassed a wide range of essential topics.
- **Expert Faculty and Collaborative Learning:** The course was facilitated by experienced professionals who provided valuable insights and guidance. Guest speakers from Development Finance Institutions (DFIs), Multilateral Development Banks (MDBs), Commercial Banks and government presented at various sessions, granting further insights to participants.

RESEARCH NEWS

UCT and EPFL Partner on Sustainable Construction Collaboration



UNIVERSITY OF CAPE TOWN
IYUNIVESITHI YASEKAPA • UNIVERSITEIT VAN KAAPSTAD
FACULTY OF ENGINEERING AND THE BUILT ENVIRONMENT



UCT and EBE is pleased to announce a new international partnership with the École Polytechnique Fédérale de Lausanne (EPFL) focused on sustainable construction. This collaboration aims to strengthen research and teaching programmes, enhance the qualifications of staff and students, and expand both institutions' resources in their respective areas of expertise. The partnership reflects a shared commitment to advancing global knowledge and fostering impactful academic exchange.

As part of the agreement, the following activities will be rolled out:

- Accreditation of UCT Master's programmes at EPFL
- Accreditation of EPFL Master's courses in relevant programmes at UCT
- Joint research activities
- Exchanges of professors
- Exchanges of students
- Joint publications
- Organisation of workshops
- Exchanges of pedagogical and scientific documents

The duration of this non-binding Memorandum of Understanding (MoU) is five years, effective from 1 January 2025 until 31 December 2030.

This exciting collaboration reflects a shared commitment to global academic excellence and sustainable development.



RESEARCH NEWS

Continuing the Conversation: GreenQUEST Bi-Annual Meetings Tackle Renewable LPG Solutions

The German Ministry of Education and Research (BMBF) GreenQUEST Project (Greening the production and use of liquified fuel gas in Southern Africa) held its bi-annual Consortium and Steering Committee Meetings in Cape Town during 4 – 6 March, at the UCT GSB Conference Centre in the Breakwater Campus. GreenQUEST seeks to investigate the technical, environmental, economic and social aspects of producing a drop-in, renewable liquified petroleum gas (LPG) fuel from captured CO₂ and green hydrogen. Of particular relevance locally is the use of this green Liquified Fuel Gas (gLFG) as a clean cooking fuel in low income households across sub-Saharan Africa. The multidisciplinary project is led by Emeritus Professor Jack Fletcher of the UCT Catalysis Institute.

With some 50 consortium members present and representing all partner institutions - UCT (Catalysis Institute, ESRG, ACDI & GSB), NMU, CSIR, Helmholtz Zentrum Berlin and the Forschungs Zentrum Jülich – the principal business of the meeting entailed a comprehensive review of progress to-date with a focus on key deliverables still outstanding before project completion.

Highlights included laboratory confirmation of the technical feasibility of gLFG synthesis; initial technoeconomic assessments for a full-scale gLFG plant based on CO₂ off-gas from cement production; and a national determination of future persistent CO₂ sources - such as cement, ferrous metals, and power generation for identifying optimal plant locations. A comprehensive life cycle and circularity analysis showed net carbon avoidance. The meetings also covered user engagement on the social acceptance of gLFG, a mapping of the current LPG ecosystem with identified opportunities for community micro-enterprise development, and the introduction of prototypes for the first lightweight polymer gas cylinders, designed specifically for use in low-income communities.

Two guest speakers, Mr Anton Cartwright of Credible Carbon and Ms Thandeka Tshabalala of the City of Cape Town, led plenary discussions on two concerns of keen interest to the project, namely carbon credits/trading and energy deprivation in Cape Town, respectively. Although the (initial) project is scheduled for completion later this year, the BMBF sponsor has already granted a 'top-up funding' for specific additional deliverables, notably a 1000 hour gLFG synthesis demonstration and a detailed evaluation of the impact of carbon credit financing on gLFG economics, such that the project will in part continue until at least September 2026. The consortium will continue to seek additional funding for gLFG scale-up and user field trials.



FACULTY EVENTS

EBE First-year Orientation programme

The EBE First-year Orientation programme took place in February and introduced students to the academic, social and cultural environment at UCT.

Thank you to all our departments, A/Prof Bruce Kloot (programme coordinator), and the orientation leaders for participating and making this a valuable experience for our first-years.



FACULTY EVENTS

UCT Open Day

UCT Open Day 2025 took place in April and provided an ideal opportunity for high school learners and their families to gather information about the different academic programmes offered at EBE. All departments took part in the exciting day through information sessions, exhibitions, and offering a glimpse into student life.

Thank you to all staff and students across departments for your excellent participation in UCT Open Day. Your enthusiasm, commitment, and teamwork played a vital role in making the event a success - despite the challenging weather. We appreciate your efforts in showcasing the best of UCT to prospective students and their families.



FACULTY EVENTS

EBE Fun Day

The EBE Transformation Committee hosted its Annual EBE Fun Day in April. Staff and students from across the faculty joined in for a few hours of light-hearted fun, friendly competition, and departmental pride. Activities included bubble soccer, sack races, tug of war, Zumba dance session and more - bringing energy, laughter, and a great sense of community to the day.



STUDENT NEWS

Mechanical and Mechatronic Engineering Students wins prestigious International Award



A team of mechanical and mechatronic engineering students, supervised by Mr James Hepworth, won 1st place in the international Lufthansa Technik InnovAero competition. Open to engineering students worldwide, the competition challenges participants to propose innovative solutions to vapour-trail formation by wide-body aircraft -a known contributor to aviation-related global warming. Competing against 40 universities, the team impressed with their sustainability-focused project. The students were Paurav Vaidya, Sam Schlesinger, Rivoo Bagchi, Trent Holm (all final-year MMT students), Liam Goodfellow (final-year MEC student), and Abhinav Iyer (MMT, 3rd year student).

Julian Baring Scholarship Fund 25-year anniversary celebration

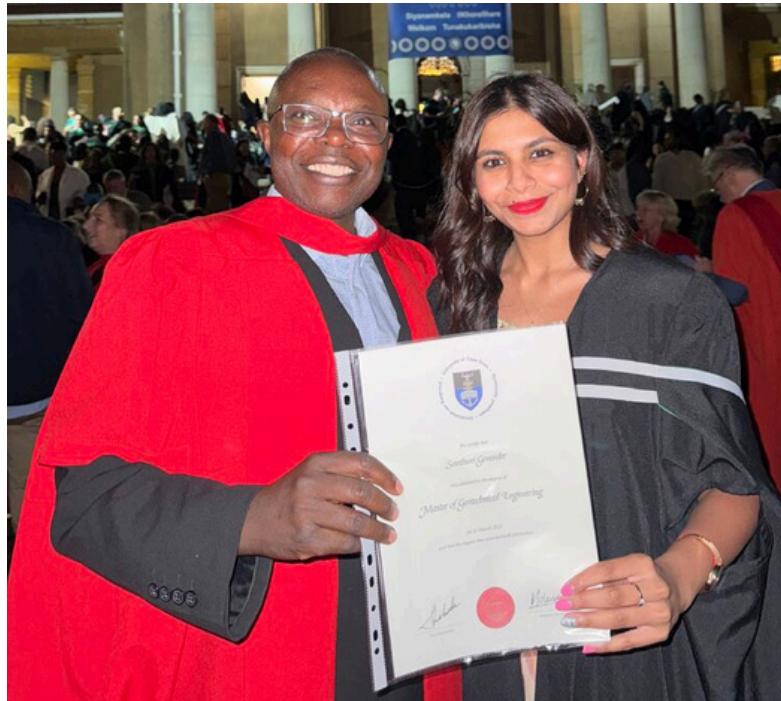
The Julian Baring Scholarship Fund hosted its 25-year anniversary celebration dinner in February, which featured several past and present recipients, as well as UCT's Vice-Chancellor, Prof Mosa Moshabela, and EBE Dean, Prof Alison Lewis.



Pictured here are Tamuka Keche (far left) and Taona Chagwedera (far right), past recipients of the Julian Baring Scholarship Fund, along with Justin Baring (centre), the founder of the scholarship fund.

UCT AUTUMN GRADUATION

The UCT Autumn graduation ceremony featured the successful completion of 14 PhDs, 117 master's degrees, 124 honours, 3 postgraduate diplomas, and 365 undergraduate degrees in EBE. We are proud of all our EBE graduates. Your efforts and dedication have led to this incredible achievement. Congratulations, and we wish you all the best for the future!



UCT AUTUMN GRADUATION FEATURE

Adli Peck is driving innovation in cleaner fuels using magnetism



PhD graduate, Mogamat Adli Peck is driving innovation in cleaner fuels using magnetism.

His research explored how magnetism can enhance catalysis, paving the way for cleaner, more efficient fuel production. Dr Peck says his hard work and passion have taken him far beyond the lab and allowed him to present his research on international stages across the globe.

[Watch the video.](#)

Celebrating victory: Lungelo Mthethwa's graduation



Master's graduate Lungelo Mthethwa proudly commemorated his graduation at UCT, calling it a victory moment. Symbolising triumph, Mthethwa carried ihawu (shield) and stick (iwisa) to complete his Zulu traditional attire.

He describes his graduation as a reward, saying there can be no challenge without triumph. He was joined by his family who travelled from Richards Bay, KwaZulu-Natal.

[Watch the video.](#)

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Justin.Marthinus@uct.ac.za