

The 44th International Energy Workshop 2026

22 – 24 June 2026

University of Cape Town, South Africa



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About the International Energy Workshop

The International Energy Workshop (IEW) is one of the leading conferences for the international energy modelling research community. In a world of environmental and economic constraints, energy modelling is an increasingly important tool for addressing the complexity of energy planning and policy making.

The IEW provides a venue for analysts to compare quantitative energy projections, to understand the reasons for diverging views of future energy developments, and to observe new trends in global energy production and consumption.

The annual conference typically includes three plenary sessions and more than 100 presentations in parallel sessions focusing on a wide array of topics, including energy supply and price forecasts, energy savings and efficiency, renewable and innovative energy technologies, environmental and climate policy, and the intersection between energy analysis, economics, and the natural sciences.

The first International Energy Workshop was organised in Palo Alto in 1981 by Stanford University's Alan S. Manne, one of the founding fathers of energy economics. With the cooperation of Leo Schrattenholzer, a leading energy technology systems specialist at the International Institute of Applied Systems Analysis (IIASA), the workshop became an annual conference, first

alternating between IIASA and the United States, and more recently expanding to other locations in Europe, Asia and Africa.

Throughout the history of IEW, a number of organizations have contributed to the success of these annual conferences, including notably the Energy Modeling Forum (EMF), the Electric Power Research Institute (EPRI) and the International Renewable Energy Agency (IRENA).

From 1981 to 1997 the IEW published annual editions of the IEW Poll, which became an important part of the Morita Database, compiled as basis for the IPCC Special Report on Emission Scenarios (SRES). From 2006 to 2008, the IEW was organized by co-directors Leo Schrattenholzer and Joseph E. Aldy.

In June 2009 three new co-directors were elected by the IEW Steering Committee to run the International Energy Workshop:

- Geoffrey Blanford, Electric Power Research Institute (EPRI), USA
- Massimo Tavoni, RFF-CMCC European Institute on Economics and Environment (EIEE), Italy
- Bob van der Zwaan, Netherlands Organisation for Applied Scientific Research (TNO), Netherlands

About the Energy Systems Research Group

The Energy Systems Research Group (ESRG) is a multi-disciplinary team housed in the Department of Chemical Engineering at the University of Cape Town. It combines modelling of energy and economic systems with policy analysis and field-based research, to generate and enhance knowledge of energy systems at sectoral, regional, national and sub-continental scales, focused on South Africa and the SADC region. The ESRG works extensively with external non-academic partners from government, civil society and industry.

Our Vision

Our vision is to be a nationally leading provider of trustworthy, cutting-edge knowledge on energy systems in transition, guiding decision-makers and investors to support sustainable development in South and sub-Saharan Africa.

- Excellence, Professional & in-depth analysis
- Climate centred and caring
- Africa based
- Evidence based
- Nurturing student capacity
- Cutting edge

Our work is driven by a commitment to advancing evidence-based solutions for energy and development challenges. We focus on key research areas that explore the intersections of energy systems, economics, and policy to inform a just and sustainable transition.

Focus Areas

Energy Systems Modelling

Modelling supports policy, regulation, and investment decisions by analysing complex systems. ESRG's hybrid energy-economy model SATIMGE, enabling economic analysis of energy-system choices

Energy and Climate Policy

Based on its strong and unique evidence generating platforms, the ESRG undertakes policy analysis and provides advice on topics of energy and climate policy and regulation and their socio-economic impacts.

Just Energy Transition

ESRG experts engage in just transition processes at international, national and local levels, serving on the Powering Past Coal Alliance's taskforce, the Mpumalanga Green Economy Cluster steering committee, the National Business Initiative's Just Transition Pathways Advisory Board and the industry working group for the South African Renewable Energy Masterplan.

Sectoral Expertise

The ESRG team employs specialists who study and analyse energy demand trends in the main industrial sub-sectors, transport, households, commerce, as well as developments in energy supply through power generation, coal mining, oil and gas, nuclear power and renewables.

Sponsors for IEW 2026



The Energy Technology Systems Analysis Programme (ETSAP) is an Implementing Agreement of the International Energy Agency (IEA), first established in 1976. It functions as a consortium of member country teams and invited teams that actively cooperate to establish, maintain and expand a consistent multi-country energy/economy/environment/engineering (4E) analytical capability.

Its backbone consists of individual national teams in nearly 70 countries, and a common, comparable and combinable methodology, mainly based on the MARKAL / TIMES family of models, permitting the compilation of long-term energy scenarios and in-depth national, multi-country, and global energy and environmental analyses. ETSAP promotes and supports the application of technical economic tools at the global, regional, national and local levels. It aims at preparing sustainable strategies for economic development, energy security, climate change mitigation and environment.



The Electric Power Research Institute, Inc. (EPRI) conducts research, development and demonstration (RD&D) relating to the generation, delivery and use of electricity for the benefit of the public. An independent, nonprofit organisation, EPRI brings together scientists and engineers as well as experts from academia and the industry to help address challenges in electricity, including reliability, efficiency, affordability, health, safety and environment.

EPRI's work spans nearly every area of electricity generation, delivery and use, management and environmental responsibility, and provides both short- and long-term solutions in these research areas for the electricity industry, its customers and society. Since its beginnings in 1972, the Electric Power Research Institute's membership has grown to represent approximately 90% of the electricity generated in the United States and extends to more than 30 countries internationally.



The RESET Network is an international, non-profit research and engagement network that brings together researchers and decision-makers across the Global South to accelerate just energy transitions tailored to local circumstances, with tangible benefits for sustainable development and climate mitigation. Coordinated by the Environmental Defense Fund (EDF), it evolved from the Multi-Country Energy Transitions (MCET) Network, an alliance of energy modelers and policymakers established in 2022 that continues its work within the broader RESET Network.

The Network conducts frontier economic and policy research, modeling, and evaluation on energy transition, with a particular focus on emissions pricing. It connects local researchers and decision-makers across the Global South to share knowledge, builds technical and institutional capacity for evidence-based decision-making, and encourages more participatory, transparent, and empowered approaches to energy planning. The RESET Network does not lobby for specific transition pathways or regulatory change but provides impartial, evidence-based advice to inform decision-making.



African Energy Futures (AEF) provides medium term grants to African energy research hubs. This allows local research communities to invest in the people, models, data, relationships, and processes needed for African-led energy planning. In addition to financial support, AEF will help coordinate hubs to share learning and raise the profile of the African voice in global fora. AEF will also crowd in further partner support, accelerating learning and raising the profile of hub outputs. Learn more at www.africanenergyfutures.org



Golden Arrow Bus Service (GABS) is spearheading a transformative shift in South African public transport by integrating large-scale electric bus technology into its fleet. By moving beyond traditional diesel reliance, GABS is taking its first step towards mitigating the volatility of global fuel markets to start protecting its operations from the severe price shocks that threaten transport affordability.

This transition is supported by a robust sustainability strategy that extends beyond the vehicles themselves. GABS has invested in cutting-edge charging infrastructure at its Arrowgate depot, featuring solar-boosted energy systems designed to reduce carbon emissions and operational costs. By coupling fleet electrification with on-site renewable energy generation and exploring wheeling agreements with independent power producers, the company is building a resilient, climate-conscious model that prioritizes long-term energy security while providing a quieter, cleaner commuting experience for the thousands of passengers who rely on their service daily.

IEW 2026 Keynote Speakers



Prof Hannah Daly

is a Professor of Sustainable Energy at University College Cork, where she co-leads the Energy Policy and Modelling Group. Her research focuses on modelling national and global decarbonisation pathways, with expertise in energy systems, carbon budgets, and climate policy. She is Principal Investigator of multi-million-euro research projects, serves as the founding Programme Director of UCC's new BSc Sustainability, and has served as a lead author of Ireland's Climate Change Assessment.

Before joining UCC, Hannah worked at the International Energy Agency in Paris, leading the World Energy Outlook work on energy access and sustainable development. She is a recognised public voice on climate and energy, writing a monthly column for The Irish Times, and frequently advises government, parliament, civil society, and international organisations.

She was born when atmospheric CO₂ concentrations were 351 parts per million; they now stand at nearly 430 parts per million.



Eric D. Larson

is a Senior Research Engineer at the Andlinger Centre for Energy and the Environment. His research interests include energy systems analysis relating to advanced clean-energy technologies and processes for carbonaceous fuels conversion, energy-related challenges in developing countries, gas turbines for power generation, gasification of solid fuels and synthesis of various clean fluid fuels.



Asami Miketa

has a Ph.D. with a strong analytical background in energy systems analysis and a history of progressive management within intergovernmental contexts, specializing in energy planning support for governments. Demonstrated success in cultivating and expanding partnerships with governmental and intergovernmental entities, proficient in project management, and leading a clean energy transition with a focus on renewable energy integration and sustainable energy planning. Currently, I provide strategic leadership to four teams of 20 professional staff and consultants at IRENA, while actively contributing to energy transition discussions and forums.



Prof Steve Pye

Steve Pye is a Professor of Energy Systems and Deputy Director of the UCL Energy Institute, University College London (UCL). Steve has over 17 years' research experience on energy and climate modelling and policy analysis. His research concerns the challenge of energy system decarbonisation, using different whole system energy modelling approaches, with a particular focus on scenario modelling of national and global low carbon pathways, uncertainty assessment, and the equity and health dimensions of energy transitions. Steve's research track record is reflected in over 60 peer review journal articles and numerous technical reports and papers. He has led multiple research projects for a range of funders and is co-I on a range of UKRI research programmes, including EDRC, Horizon Europe projects such as DIAMOND, and a PI on the UK FCDO' Climate Compatible Growth Programme. Steve has also been involved in a range of major international initiatives, including the Deep Decarbonisation Pathways Initiative, Lancet Countdown, and the UNEP Production Gap report.



Dr Stéphanie Bouckaert

has more than fifteen years' experience working on energy system modelling. She currently serves at the International Energy Agency as the Head of Demand Sectors Unit, within the World Energy Outlook team. She is leading research, analytical and scenario modelling activities of the end-use sectors (industry, transport, buildings) for the IEA's flagship *World Energy Outlook* and major IEA special reports. She has contributed to 12 editions of the Outlook and was a lead author of landmark IEA reports, including *Net Zero by 2050*, *Africa Energy Outlook 2022* and 2019 editions, *Latin America Energy Outlook* and *Chile 2050 Energy Transition Roadmap*.

Ms. Bouckaert obtained a master's degree in mechanical engineering, from the Université catholique de Louvain, Belgium, as well as a master's degree specializing in energy systems optimization (OSE) and a PhD in applied mathematics from MINES ParisTech, France.



Ronald Marais

is the Senior Manager for Strategic Grid Planning at the National Transmission Company South Africa SOC Limited (NTCSA), which officially began operations on 1 July 2024. As the head of the Transmission Strategy Grid Planning section, his primary focus includes strategic grid planning for the South African transmission power grid, Southern African energy strategic planning, long-term transmission power system design, and stakeholder relationship management. With 31 years of experience, Ronald has significantly contributed to the development of the African power grid. He is also an active contributor to CIGRE.



Adrian Stone

has worked in various technical capacities in industry, academic, nonprofit and government organisations mostly around energy and its externalities. He played a leading role in the climate change action plan for Cape Town, including setting Paris-compliant mitigation targets for the city under the C40 Deadline 2020 Program. He currently works as Manager of Data Management and Integration Platforms (DMIP) in the Sustainable Energy Markets Department of the Energy Directorate of the City of Cape Town to technically support, amongst other programs, the expansion and availability of renewable energy and improvement of energy security. As well as supporting the climate function through the greenhouse gas inventory, DMIP supports the energy function of the City of Cape Town through expanding integrated energy planning modelling capacity and outputs, analysing customer metering data to produce load curves and developing and maintaining the building energy performance system, Smart Facility.

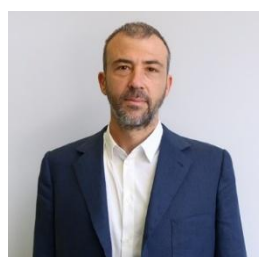
IEW 2026 Organising Committee



Geoffrey Blanford
Electric Power Research
Institute (EPRI)



Bob van der Zwaan
Netherlands Organizatio
for Applied Scientific (TNC



Massimo Tavoni
RFF-CMCC European
Institute on Economic and
Environment



Harro Von Blotnitz
Energy Systems
Research Group



Bruno Merven
Energy Systems
Research Group



Alison Hughes
Energy Systems
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Tara Caetano
Energy Systems
Research Group



Mika Sithole
Energy Systems
Research Group



Julia Tatham
Energy Systems
Research Group



Moyahabo Masipa
Energy Systems
Research Group



Natasha McDaid
Energy Systems
Research Group



Nasibe Nosrati Ghods
Energy Systems
Research Group

This event is a collaborative effort supported by the Energy Systems Research Group (ESRG). Please visit [our website](#) to view the full list of ESRG team members supporting IEW 2026.

Side Events

Thursday, 25 June 2026 – Friday, 26 June 2026

IEA-ETSAP Summer 2026 Workshop (in winter)

This two-day event bring together the global community of TIMES modellers to exchange experiences, discuss model improvements, and coordinate common activities. Local experts are often invited, creating opportunities for knowledge exchange and collaboration.

Friday, 26 June 2026

Openmod Workshop South Africa 2026

Open Energy Transition and the **Energy Systems Research Group** from the **University of Cape Town** are delighted to announce the inaugural Openmod Workshop in Africa, to be held at the University of Cape Town on Friday, 26 June 2026.

Open-source energy system modelling remains underrepresented across much of Africa's energy planning landscape. Openmod helps address this gap as a community-driven movement that advances awareness, exchange, and real-world implementation of open-source energy modelling by bringing together researchers, developers, planners, and practitioners who openly share ideas, code, data, and experience. Learn more about the openmod community by reading the manifesto [here](#).

Building on the success of the **Openmod Meets USA** event co-hosted by **Open Energy Transition** and Stanford University and workshops in **Stockholm (2025)**, **Grenoble (2024)**, and soon **Canada (2026)**, **Openmod South Africa 2026** brings this international community to the African continent for the first time. With the International Energy Workshop (IEW) taking place in Cape Town on 22-24 June 2026 and the IEA-ETSAP Summer 2026 Workshop on 25-26 June 2026, it will be an exciting week for the wider energy modelling community.

General Information

Conference Venue

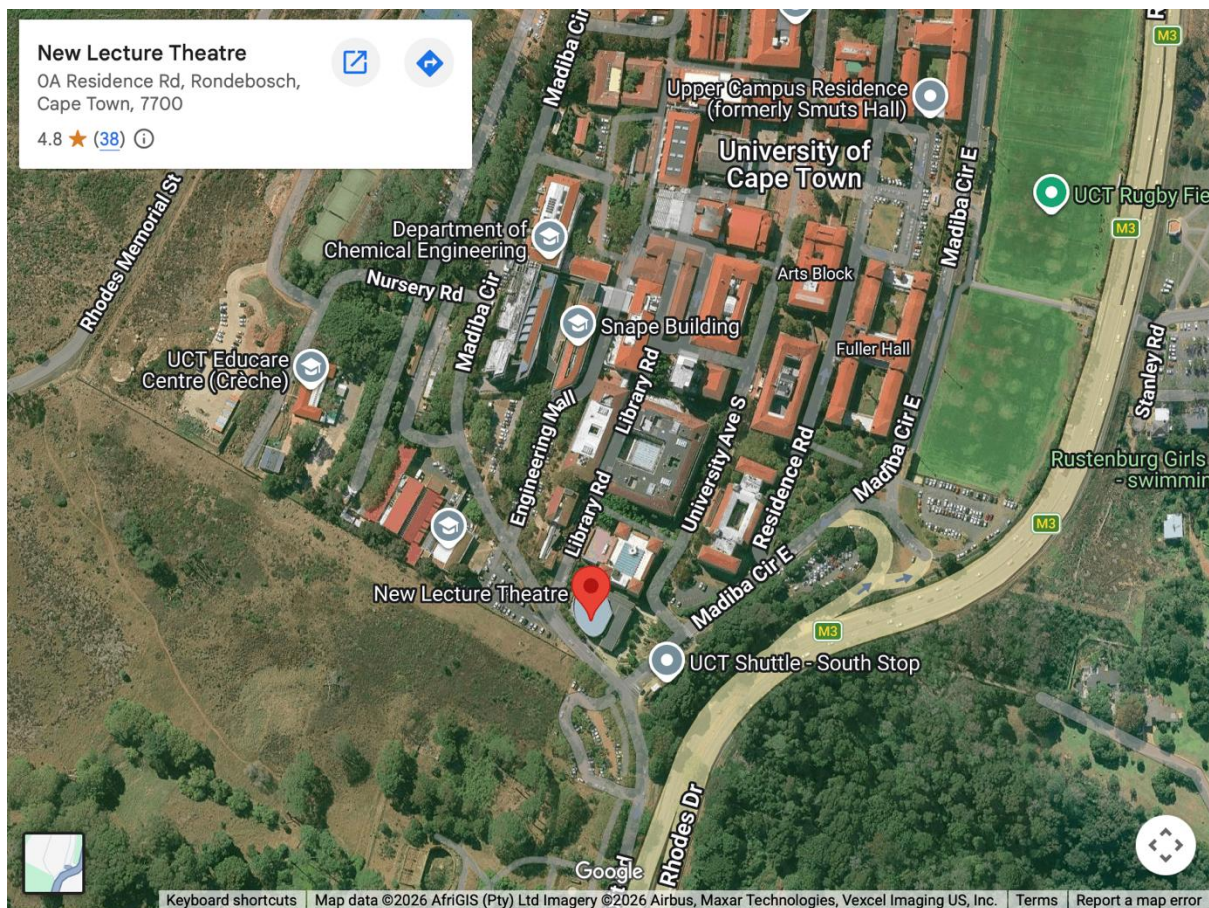
The 44th edition of the International Energy Workshop (IEW) will be held on the Upper Campus at the University of Cape Town, South Africa, 22 to 24 June 2026.

Conference banners will be placed to mark the venue entrances. The opening, plenary sessions and closing session will be held in the New Lecture Theatre (NLT) and the parallel sessions will be split between Lesile Social Science Lecture Theatre 1A; 1B, 1C, and 3A.

The schedule of parallel sessions will have the rooms for each session, and they will have signs in the venue.

Address

Main Venue - New Lecture Theatre: [0A Residence Rd, Rondebosch, Cape Town, 7700](#)



University of Cape Town, Upper Campus Map:

https://uct.ac.za/sites/default/files/media/images/uct_ac_za/uctuppercampus_0.jpg

Registration and Information Desk

The Registration and Information Desk will be on the first floor of the New Lecture Theatre, and will open during these times:

Monday, 22 June, 8am – 9:30am

Tuesday, 23 June, 8am – 9:30am

Wednesday, 24 June, 8am – 9:30am

If you have any questions, please feel free to visit the Registration and Information Desk, or contact the workshop secretariat:

Secretariat email: ESRG@uct.ac.za

Phone (tel.): [+27 21 650 4127](tel:+27216504127)

Lunches and Coffee Breaks

Lunch and coffee will be served on the ground floor of the New Lecture Theatre (NLT) building.

Welcome Reception

22 June 2026, 18:30 – 20:30.

A welcome reception is scheduled in the New Lecture Theatre. Finger food and refreshments will be served.

Conference Dinner

23 June 2026, 18:30 – 20:30

Venue Two Oceans Aquarium, Golden Arrow Busses will collect conference participants from outside the New Lecture Theatre at 18:00

Social Events

24 June 2026, 2:45pm

Participants are invited to choose between two exciting afternoon activities. Please note that spaces are limited and will be allocated on a first-come, first-served basis.

Option 1: Wine Tasting at Cape Point Vineyards (Capacity: 130 participants)

Option 2: Time Out Market (Capacity: 65 participants)

Departure Details:

Golden Arrow buses will collect all participants from outside the New Lecture Theatre at 14:15.

Transportation in Cape Town

Please note that participants will be responsible for organizing their own transportation to and from the venue. The City of Cape Town has advanced its public transport offerings, but please note that these are still limited, and there are often delays.

There are a few different ways to get around Cape Town, the most convenient option, especially when travelling to and from the conference venue, is to use any of the major e-hailing services, such as Uber.

Please note, when using e-hailing services: Always verify your driver's name, photo, and vehicle registration on the app before entering the car. Do not accept rides from people soliciting trips in the airport terminal or on the street.

The MyCiTi bus services are a very safe, affordable, and convenient way to travel around the city, connecting top attractions like the V&A Waterfront, Table Mountain, Camps Bay, and the Cape Town International Airport. The bus routes are unfortunately not yet established to and from the University of Cape Town and are therefore not as convenient for use to and from the conference venue.

For more information on routes, fees and how to use the MyCiTi bus services, please see:

<https://www.myciti.org.za/en/home/>

General Safety

Cape Town is a major, modern cosmopolitan South African city. As such, we would advise travellers to exercise the same level of vigilance they would exercise when visiting any major city in the world.

- Stay alert and aware of your surroundings, especially in unfamiliar areas.
- Avoid displaying valuables such as phones, expensive jewellery, cameras, or large amounts of cash in public.
- Keep your bags and belongings close, particularly in crowded areas or markets.
- Use ATMs in well-lit, secure areas (preferably inside malls or banks) and avoid withdrawing large sums of money.
- It is recommended that you walk in groups, especially in more remote areas, such as hiking in the mountains. Please avoid walking alone at night.

Please consult the following safety guide by Cape Town Tourism:

<https://www.capetown.travel/wp-content/uploads/CCT-Travelwise-PDF-A5-V3-compressed.pdf>.

Emergency Services

Please consult a list of emergency service numbers for your stay in Cape Town:

Service	Number	Notes
South African Police Service (SAPS)	10111	National emergency police line

Ambulance / Fire & Rescue	10177	National emergency line
City of Cape Town Emergency	107	From any Telkom landline or payphone (free)
Medical & Fire (Cape Town City)	021 535 1100	City of Cape Town emergency centre
UCT Campus Protection Services (CPS)	021 650 2222	24/7 on-campus security and emergencies
ER24 Private Ambulance	084 124	Private emergency medical service
Netcare 911	082 911	Private emergency medical service
Table Mountain NP Emergencies	086 110 6417	Mountain security, crime, wildfires
Sea & Mountain Rescue	021 937 0300	Wilderness Search and Rescue
National Sea Rescue Institute	087 094 9774	Water-related emergencies

Useful Information

Climate: Cape Town has a Mediterranean climate. May–August (autumn/winter) can be cool and rainy – bring a jacket and waterproof layer. Layering is recommended as temperatures can shift through the day. Check the local forecast on arrival.

Power Adapters: South Africa uses Type M plugs (three large round pins). If your devices use a different plug type, please bring a suitable adapter. These adapters are also available for purchase at the airport, and at several stores in Cape Town, such as pharmacies, most luggage stores and Sportsman’s Warehouse.

The standard voltage in South Africa is 230V at a frequency of 50Hz.

For further details, see: <https://www.power-plugs-sockets.com/south-africa/>.

Currency: The local currency in South Africa is Rands. There are exchange outlets at the airport, and various ATMs where you can withdraw local currency. Cape Town is a ‘cash-lite’ city and most formal establishments and eateries are now only accepting cashless payments.

Time Zone: South African Standard Time (SAST)

Notice: safety of foreign delegates attending conferences at the University of Cape Town (UCT)

UCT is generally regarded as a safe academic environment for local and international delegates attending conferences, seminars, and academic events. The university is situated in the southern suburbs of Cape Town, primarily in the Rondebosch area, which remains comparatively safer than many other parts of the city and is supported by visible security measures, access control, patrols, CCTV coverage, and close cooperation between Campus Protection Services (CPS)(identifiable through their clearly marked CPS uniforms and/or bibs), local law enforcement, and community safety structures.

Crime affecting conference delegates in and around UCT is generally limited to opportunistic incidents, such as theft of unattended personal belongings, mobile phones, laptops, handbags, and theft from motor vehicles. Violent crime directed specifically at conference delegates remains limited and uncommon within the immediate UCT environment. Most reported incidents occur when individuals move outside controlled campus areas, travel alone at night, leave valuables visible in vehicles, or make use of unfamiliar transport arrangements.

In relation to xenophobia and anti-foreigner sentiment, South Africa periodically experiences isolated incidents of unrest linked to socio-economic tensions, illegal immigration concerns, unemployment, and political mobilisation. Current monitoring indicates that the “March to March” campaign and related protests may generate limited demonstrations or public gatherings in parts of Cape Town and other metropolitan areas. However, there is presently no credible intelligence indicating that foreign academic delegates, universities, or conference venues are being specifically targeted. Protest action in South Africa is generally directed toward government, socio-economic grievances, or service delivery concerns rather than academic institutions or international visitors.

UCT itself has historically remained largely insulated from xenophobic violence and large-scale criminal unrest due to its controlled environment, established security presence, and location away from identified protest hotspots. Nevertheless, delegates should remain aware that protests in South Africa can occasionally become disruptive, result in road closures, traffic congestion, or isolated acts of intimidation in affected public areas.

To further safeguard themselves during their stay, foreign delegates are advised

- Remain within known and reputable areas, especially after hours.
- Avoid displaying expensive items such as jewellery, cameras, laptops, or large amounts of cash openly.
- Make use of reputable transport providers and avoid walking alone at night.
- Keep hotel and conference venue contact details readily available.

- Remain alert in public spaces, transport hubs, and tourist areas.
- Follow guidance issued by conference organisers and CPS.
- Monitor local developments and avoid protest gatherings or crowds where possible.
- Ensure mobile phones remain charged and emergency contact numbers are accessible.

Overall, the risk to foreign conference delegates attending events at UCT is assessed as low, with the primary concern being opportunistic property-related crime, rather than targeted violence or xenophobic attacks. With normal situational awareness, adherence to basic personal safety measures, and the support structures available at UCT, foreign delegates can reasonably expect a safe and secure conference experience.

Emergency contact numbers:

- On campus, contact CPS on 080 650 2222. Please note, CPS does not have a mandate off campus.
- Off campus, please contact SAPS on 10111 and/or 112 (from a cell phone). The latter number is an automated service but will direct you to the nearest emergency response service.

We hope you have a productive and enjoyable conference. If you have any urgent queries on-site, please contact the conference organising team at the registration desk.

Welcome to Cape Town!