

#SCI4NET0

8 NOVEMBER 2021

SCIENCE FOR NET-ZERO TRANSITION

LINKING GREEN OBJECTIVES WITH SOCIETAL DEVELOPMENT

ONLINE SYMPOSIUM – SIDE EVENT TO COP26

CESAER
The strong and united voice of universities
of science and technology in Europe

 **ISCN**
International Sustainable Campus Network

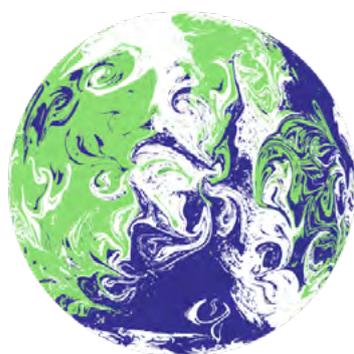
SCIENCE EUROPE  **10**
Shaping the future of research 2011 - 2021
TEN YEARS OF SUPPORTING RESEARCH EXCELLENCE


University of
Strathclyde
Glasgow

INTRODUCTION

ABOUT COP26

The United Kingdom will host the twenty-sixth United Nations Climate Change Conference of the Parties (COP26) at the Scottish Event Campus in Glasgow from 1 to 12 November 2021. The climate talks will bring together over 30,000 delegates, including heads of state, climate experts and campaigners to agree coordinated action to tackle climate change. The challenge is significant and we must hence rise to it in order to save the environment we all live in. The UN Climate Change process is central to that collective action.



**UN CLIMATE
CHANGE
CONFERENCE
UK 2021**

IN PARTNERSHIP WITH ITALY

ABOUT THE SYMPOSIUM

CESAER, the International Sustainable Campus Network (ISCN), Science Europe and the University of Strathclyde share a strong commitment to boost the contributions of universities and other research performing and funding organisations to ecological, economic and social sustainability. They therefore joined forces and will co-organise a symposium in the fringe of COP 26.

In our vision, academic and research communities world-wide from universities and other research performing and funding organisations address the urgent global challenges also through realising the Net-Zero Transition. Realising the Net-Zero Transition concerns an enormously complex challenge requiring collaboration across all disciplines, communities, institutions and involving societies across the globe.

The symposium brings together universities, national research performing organisations and research funding organisations to look at how we collectively upgrade our ambitions, and how we can work together with non-academic partners shaping knowledgeable societies for a sustainable future.

The symposium aims to address questions about how We, universities, research funding and performing organisations, can nurture researchers, teachers, students, support staff and leaders to deal with the breadth and complexity of the Net-Zero Transition. We aim to discuss how to transform our institutional practices, and build alliances with other actors, globally and locally.

In this context, we convene to launch a call to action based on our own commitment for the Net-Zero Transition. This call is open to other partners, leaders and the broad public, to join efforts towards the most pressing challenge of our time, climate change.

PROGRAMME

All times are in CET.

10.30–11.00 Log on

11.00–12.30 **Session I: National and International Research Programmes for Net-Zero Transition**

The speakers will present [examples](#) of national and international funding and performing research programmes to contribute to the Net-Zero Transition. They will reflect on their approaches to science-policy and how to bring academic and non-academic players closer together.

Introduction by **Tim Bedford**, Associate Principal of the University of Strathclyde

Moderated by **Angelika Kalt**, Director of Swiss National Science Foundation

- **Angeles G. Borrego**, Vice-President of the Spanish National Research Council
- **Anne-Hélène Prieur-Richard**, Head of Department Environment, Ecosystem, Biological Resources of the French National Research Agency
- **Sir Duncan Wingham**, Executive Chair of the Natural Environment Research Council, UK Research and Innovation
- **Mari Sundli Tveit**, Director of the Norwegian Research Council

12.30–13.00 Break

13.00–14.30 **Session II: Universities for Net-Zero Transition**

The speakers will present examples from their respective universities on how they are contributing to the Net-Zero Transition at the regional level and collaborating with academic and non-academic partners.

Introduction by **Tim Bedford**, Associate Principal of the University of Strathclyde

Moderated by **Santa Ono**, President & Vice-Chancellor of University of British Columbia and President of the University Climate Change Coalition (U3)

- **Mamokgethi Phakeng**, Vice-Chancellor of the University of Cape Town
- **Mikael Östling**, Deputy President of the KTH Royal Institute of Technology
- **Wei Shyy**, President of the Hongkong University of Science and Technology
- **William Lee**, Vice Rector for Scientific Research of the National Autonomous University of Mexico

14.30–15.00 Break

15.00–16.30

Session III: Systems Thinking and Approaches to Achieving Net-Zero Transition and Tackling Climate Change

A final panel discussion is aimed at synthesising concrete recommendations on how this cooperation could be improved and applied in different contexts and within different regional ecosystems.

Introduction by **Lidia Borrell-Damián**, Secretary General of Science Europe

Moderated by **Tim Bedford**, Associate Principal of the University of Strathclyde

- Report session 1 by **Angelika Kalt**
- Report session 2 by **Santa Ono**
- **Gisou van der Goot**, President of ISCN & Vice President at EPFL
- **Sir Jim McDonald**, President of the Royal Academy of Engineering and Principal & Vice-Chancellor of the University of Strathclyde
- **Marc Schiltz**, President of Science Europe & Secretary General of the National Research Fund of Luxembourg
- **Rik Van de Walle**, President of CESAER and Rector of Ghent University

16.30–16.35

End of event

BIOGRAPHIES OF SPEAKERS AND MODERATORS

In order of appearance on the programme:



TIM BEDFORD

ASSOCIATE PRINCIPAL OF THE UNIVERSITY OF STRATHCLYDE

Tim Bedford is Associate Principal for Research and Innovation at the University of Strathclyde and Professor of Risk and Decision Analysis. He is one of the Executive leads for the University net zero strategy and a member of the board of Sustainable Glasgow, the partnership organisation which brings together major city organisations to coordinate and support the city's work on climate action. He is also a member of the Board of CESAER and has been Chair of its Taskforce Innovation for more than 5 years with a particular focus on the anchor role of universities in innovation ecosystems. He is also a Fellow of the Royal Society of Edinburgh, Scotland's National Academy.



ANGELIKA KALT

DIRECTOR OF THE SWISS NATIONAL SCIENCE FOUNDATION

Angelika Kalt (born 1961) is currently the Director of the Swiss National Science Foundation (SNSF), Switzerland's main research funding organisation. Before this, Angelika was professor of petrology and internal geodynamics at the University of Neuchâtel. Since taking over the helm at the SNSF, she has focused her efforts on modernising SNSF research funding in line with international trends – promoting cross-border collaboration, implementing the DORA Declaration and facilitating open access publishing. She is dedicated to improving conditions for researchers in Switzerland, particularly young researchers and women.



ANGELES G. BORREGO

VICE PRESIDENT OF THE SPANISH NATIONAL RESEARCH COUNCIL

Angeles Gómez Borrego is the vice-president for international affairs at Spanish National Research Council (CSIC) since May 2021. Previously she was CSIC representative at regional level in Asturias and senior researcher at the Institute for Carbon Science and Technology (INCAR-CSIC) in Oviedo, Spain. Her research has focused on the study of solid fossil fuels utilization within an increasingly demanding scenario of green-house gas emissions abatement and more recently on proxies for climate change in peatlands. She studied Geology in the Complutense University of Madrid, got a PhD from the University of Oviedo and enjoyed a Marie Curie postdoctoral grant in RWTH Aachen in Germany. She has been Spanish representative for the research programs of Energy in the EU (2 years) and is chairing the TGK2 group for monitoring projects on coal utilization from the RFCS (Research Funds for Coals and Steel) in the framework of the Green Deal.



ANNE-HÉLÈNE PRIEUR-RICHARD

HEAD OF DEPARTMENT ENVIRONMENT, ECOSYSTEM, BIOLOGICAL RESOURCES OF FRENCH NATIONAL RESEARCH AGENCY

Anne-Hélène Prieur-Richard has 15 years' experience in biodiversity and sustainability science-policy-practice interface in addition to 5 years in research. She has worked in several research organisations in France and UK in the field of biodiversity and ecosystem functioning before joining international research programmes in the field of biodiversity and sustainability. Between 2006 and 2014, she was Deputy Director and then Executive Director at DIVERSITAS, the international programme on biodiversity sciences of ICSU and UNESCO. In 2015, she became Director of the Future Earth Global Hub based in Montreal, Canada. In 2018, she joined the French National Research Agency (ANR), Paris, France. She is in charge of the strategic representation of the agency in several international and European initiatives before being appointed as Head of Department Environment, Ecosystem, Biological Resources in June 2021.



SIR DUNCAN WINGHAM

EXECUTIVE CHAIR OF THE NATURAL ENVIRONMENT RESEARCH COUNCIL, UK RESEARCH AND INNOVATION

Duncan received a B.Sc. from the University of Leeds in 1979, and a Ph.D from the University of Bath in 1984, both in physics. He was appointed as a Chair in the Department of Space and Climate Physics in 1996, and was Head of the Department of Earth Sciences at UCL from 2005 to 2010. He was founder and Director of the NERC Centre for Polar Observation and Modelling (CPOM) from 2000 to 2005 which, among other things, discovered the widespread mass loss from the West Antarctic Ice Sheet and its origin in accelerated ocean melting. He was Chairman of the Science and Innovation Board of NERC and, since 2000, the Lead Investigator of the ESA CryoSat and CryoSat-2 satellite missions. Duncan became Chief Executive of the Natural Environment Research Council on 1st January 2012 and then Executive Chair on 1st April 2018, when the Natural Environment Research Council became part of UK Research and Innovation.



MARI SUNDLI TVEIT

DIRECTOR OF THE RESEARCH COUNCIL OF NORWAY

Professor Mari Sundli Tveit (1 May 1975) is from 1 March 2021 Chief Executive at the Research Council of Norway. From 2019 to 2021 she was Deputy Director General of the Confederation of Norwegian Enterprise (NHO). Prior to this she worked 17 years (2002-2019) for the Norwegian University of Life Sciences (NMBU) where her last position was as Rector (2014-2019). She has held a number of elected positions, including as board member in the European University Association (2015-2021), President of Universities Norway (2017-2019), and board member at Centre for Advanced Studies and Chalmers Technical University. Mari Sundli Tveit has extensive leadership experience within academia and in the business, sector including broad experience leading large mergers, organizational integration, strategic development. She also has broad board experience nationally and internationally with large network within academia, the business sector, and politics, and experience working with ministries and government.



SANTA ONO

PRESIDENT & VICE-CHANCELLOR OF THE UNIVERSITY OF BRITISH COLUMBIA AND PRESIDENT OF THE UNIVERSITY CLIMATE CHANGE COALITION

Santa Ono is the 15th President & Vice-Chancellor of the University of British Columbia. He also serves as Leader of the University Climate Change Coalition (UC3), a consortium of 22 of North America's leading research universities focussed on climate action in 2020; as Chair of the U15 Group of Universities; on the Board of Directors of Universities Canada, and as Past Chair of Research Universities of British Columbia. Prior to his appointment as President and Vice-Chancellor of UBC, Dr. Ono served as the 28th President of the University of Cincinnati and Senior Vice-Provost and Deputy to the Provost at Emory University. A molecular immunologist educated at the University of Chicago and McGill, Dr. Ono has taught at Johns Hopkins, Harvard University and University College London. He holds Honorary Doctorates from Chiba University and the Vancouver School of Theology and is a recipient of the Reginald Wilson Diversity Leadership Award from the American Council on Education, the Professional Achievement Award from University of Chicago, a Grand Challenges Hero Award from UCLA and the NAAAP 100 Award from the National Association of Asian American Professionals.



MAMOKGETHI PHAKENG

VICE-CHANCELLOR OF THE UNIVERSITY OF CAPE TOWN

Mamokgethi (Kgethi) Phakeng is the Vice-Chancellor of the University of Cape Town. She holds a PhD in Mathematics Education from the University of the Witwatersrand and is a B1 NRF-rated scientist with over 80 research papers and five edited volumes published. She has won numerous awards for her research and community work. In 2020 she was included in Forbes' inaugural list of the 50 Most Powerful Women in Africa. In 2019 the University of Bristol conferred on her an Honorary Doctorate in Science in recognition of her leadership role in mathematics education in South Africa. Kgethi is founder of the Adopt-a-learner Foundation.



MIKAEL ÖSTLING

DEPUTY PRESIDENT OF KTH ROYAL INSTITUTE OF TECHNOLOGY

Mikael Östling received his MSc degree in engineering physics and the PhD degree from Uppsala University (Sweden) in 1980 and 1983 respectively. He has been with the faculty of electrical engineering of KTH, Royal Institute of Technology in Stockholm, Sweden since 1984 where he holds a position as professor in solid state electronics. Since 2017 he has been the deputy president of KTH. From 2000 to 2004 he was head of the department of Microelectronics and Information Technology. He is currently department head of Integrated Devices and Circuits and was the Dean of the School of Information and Communication Technology, KTH from 2004 to 2012. Östling was a senior visiting Fulbright Scholar 1993-94 with the Center for Integrated Systems at Stanford University (USA), and a visiting professor with the University of Florida (USA), Gainesville.



WEI SHYY

PRESIDENT OF THE HONGKONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Professor Wei Shyy is the President of The Hong Kong University of Science and Technology (HKUST). He is concurrently Chair Professor of Mechanical and Aerospace Engineering. Prior to joining HKUST in 2010 as Provost, he was Clarence L. “Kelly” Johnson Collegiate Professor and the Department Chair of Aerospace Engineering of the University of Michigan, Ann Arbor, USA. He had led multi-institutional research projects funded by the US government and industries on future space transport, bio-inspired flight and computational aeronautical science, and is a fellow of the American Institute of Aeronautics and Astronautics (AIAA) and the American Society of Mechanical Engineers (ASME). He is the author and co-author of five books and editor of numerous peer-reviewed journals. His professional views have been quoted in various news media, including the New York Times, Washington Post, Associated Press, New Scientist and the U.S. News & World Report. Shyy had received multiple awards in recognition of his research contributions, including the 2003 AIAA Pendray Aerospace Literature Award.



WILLIAM LEE

VICE-RECTOR FOR RESEARCH OF THE NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO

William Lee holds a B.S. in Physics from UNAM (1992), and M.S. (1995) and PhD (1998) in Physics from the University of Wisconsin-Madison. He is Professor of Astronomy at Instituto de Astronomía, UNAM. Dr. Lee has carried out research in high-energy astrophysics, including the physics of binary stellar systems containing compact objects, gamma-ray bursts, the production of gravitational waves, and has published over 100 refereed papers with over 7000 citations. In 2009 he earned the Distinguished Young Scientist award at UNAM, and has worked on the development of infrastructure and instrumentation projects for Observatorio Astronómico Nacional in San Pedro Mártir, Baja California, in collaboration with institutions in Mexico, France, Spain, Taiwan and the United States. He served as Secretary for the Mexican Academy of Sciences, Director of Instituto de Astronomía at UNAM from 2010 until 2015, is a member of the Mexican Academy of Sciences and of the International Astronomical Union, and since December 2015 he is Vice-Chancellor for Science at UNAM.



LIDIA BORRELL-DAMIÁN

SECRETARY GENERAL OF SCIENCE EUROPE

Lidia Borrell-Damián is Secretary General of Science Europe. Previously, she worked for the European University Association (EUA) (2006-2019), serving the last five years as the Director for Research and Innovation (R&I). She was a member of the EOSC Executive Committee between September 2019 and December 2020, and co-chair of the related Sustainability Working Group. Lidia Borrell-Damián holds a Doctorate in Chemistry (Chemical Engineering Specialty; Solar Energy) from the University of Barcelona (1995). She was Director of Research at Universitat Pompeu Fabra (2003-2005). Formerly, she was a Visiting Scholar at the University of Western Ontario (Canada, 1999-2001) at North Carolina State University (USA, 1997-1998) and an Assistant Professor at the University of Barcelona (1990-1998).



GISOU VAN DER GOOT

PRESIDENT OF ISCN & VICE PRESIDENT AT EPFL

Gisou van der Goot is the Head of the Laboratory of Cell and Membrane Biology, and founding member of the Global Health Institute (GHI), School of Life Sciences, at the Swiss Federal Institute of Technology Lausanne/EPFL (Ecole Polytechnique Fédérale de Lausanne). She is currently Vice President for Responsible Transformation, in charge of reinforcing values such as inclusion and sustainability throughout the School's campus. From 2014 to 2020, she was Dean of the School of Life Sciences. Before joining EPFL, she was Group Leader at the Faculty of Sciences of the University of Geneva (UNIGE) and subsequently Associate Professor at the Faculty of Medicine of the same university. She studied engineering at the Ecole Centrale de Paris, then did a PhD in Molecular Biophysics at the Nuclear Energy Research Center, Saclay, France, followed by a postdoc at the European Molecular Biology Laboratory (EMBL) in Heidelberg. She obtained an EMBO Young Investigator award in 2001, a Howard Hughes International Scholar award in 2005 and the Swiss Prix Marcel Benoist in 2009, the same year she was elected EMBO member (European Molecular Biology Organisation). Professor van der Goot is member of diverse scientific boards such as the Swiss National Science Foundation (SNF), the Conseil suisse de la science et de la technologie (CSST) and the European Research Council (ERC).



SIR JIM MCDONALD

PRESIDENT OF THE ROYAL ACADEMY OF ENGINEERING AND PRINCIPAL & VICE-CHANCELLOR OF THE UNIVERSITY OF STRATHCLYDE

Professor Sir Jim McDonald is Principal and Vice-Chancellor of the University of Strathclyde. He Co-chairs, with the First Minister of Scotland, the Scottish Government's Energy Advisory Board. He is Co-Chair of the Independent Glasgow Economic Leadership Board. He currently holds several senior business appointments with organisations including the Weir Group plc, Scottish Power plc, the UK National Physical Laboratory and the UK Offshore Renewable Energy Catapult. Additionally, he Chairs or participates in several senior committees related to research, economic development and education. In the Queen's Jubilee Birthday Honours List 2012, Professor McDonald was awarded a Knighthood for services to education, engineering and the economy. He was elected President of the Royal Academy of Engineering in September 2019, through which he is a member of the UK Prime Minister's Council for Science and Technology. He has held the Rolls-Royce Chair in Electrical Power Systems since 1993. He is a Fellow of the Royal Academy of Engineering, the Royal Society of Edinburgh, the Institution of Engineering and Technology, the Institute of Physics, the Energy Institute and a Foreign Fellow of the Chinese Society of Electrical Engineering.



MARC SCHILTZ

PRESIDENT OF SCIENCE EUROPE & SECRETARY GENERAL OF THE NATIONAL RESEARCH FUND OF LUXEMBOURG

Marc Schiltz is the CEO of the Luxembourg National Research Fund (FNR). He brings a strong dedication to building a world-class research system that will generate long-term societal and economic impact for the country. Over the past ten years, he has significantly contributed to enhancing the quality of the Luxembourg research system and to build bridges with the private sector, as well as with the international research community. Under his leadership, the FNR has successfully developed programme lines to attract scientific talent to the country and to link the business ecosystem to research innovation. Since 2017, Marc Schiltz is also president of Science Europe, the Brussels-based association of all major European public research funding and research performing organisations, representing a combined annual investment in research of nearly 20 bn EUR in 27 countries. In this role, he has been setting the European agenda to foster Open Science and is currently chairing cOAlition-S, an international consortium of major research funders that have agreed to implement open access policies in a coordinated way. He also sits on the Governing Board of the Global Research Council, which comprises the heads of research funding agencies from around the world.



RIK VAN DE WALLE

PRESIDENT OF CESAER AND RECTOR OF GHENT UNIVERSITY

Rik Van de Walle has been Rector at Ghent University since October 2017. In 2018, he became a Member of the Board of Directors of CESAER, and has served as President since January 2020. In collaboration with the EU Office in the university's Research Department and the Internationalisation Office in the Education Department, he proactively supported the involvement of Ghent University in European public affairs activities. Rik graduated in engineering physics in 1994 and obtained his doctoral degree in engineering physics in 1998. He was a visiting postdoctoral fellow at the University of Arizona (USA), before returning to Ghent University to set up the Internet and Data Lab which became one of the founding research groups of IBBT/iMinds, now part of IMEC – a world-leading R&D and innovation hub in nanoelectronics and digital technologies. As a senior full professor, his specialties involved multimedia applications, systems and signals and data science. In the five years preceding his appointment as Rector, from October 2012 until September 2017, he was Dean of Ghent University's Faculty of Engineering and Architecture.

CESAER

The strong and united voice of universities
of science and technology in Europe

CESAER

Kasteelpark Arenberg 1, box 2200
3000 Leuven, Belgium
Tel. +32 16 32 16 87
Fax +32 16 32 85 91

Web www.cesaer.org
Email info@cesaer.org
Twitter [@CESAER_SnT](https://twitter.com/CESAER_SnT)



ISCN

*International Sustainable Campus
Network*

c/o EPFL Sustainability
BS 101 (Bâtiment BS)
Station 4
CH-1015 Lausanne, Switzerland
Tel. +41 21 693 1422

Web [international-sustainable-
campus-network.org](http://international-sustainable-campus-network.org)
Email iscn@epfl.ch
Twitter [@ISCNSecretariat](https://twitter.com/ISCNSecretariat)



Science Europe

Rue de la Science 14
1040 Brussels, Belgium
Tel. +32 2 226 0300

Web www.scienceeurope.org
Email office@scienceeurope.org
Twitter [@ScienceEurope](https://twitter.com/ScienceEurope)



University of Strathclyde

16 Richmond Street
Glasgow G1 1XQ, United Kingdom
Tel. +44 141 552 4400

Web www.strath.ac.uk
Twitter [@UniStrathclyde](https://twitter.com/UniStrathclyde)

#SCI4NET0

