

Global Research Council
Panama City, Panama May 30th – June 3rd, 2022

Joint Welcome Message

Global Research Council (GRC) 10th Annual Meeting

Dear Colleagues,

On behalf of the National Secretariat of Science, Technology, and Innovation (SENACYT) from Panama and the U.S. National Science Foundation (NSF) from the United States of America, it is an honor to welcome you to the Tenth Annual Meeting of the Global Research Council (GRC).

In 2012, NSF organized the first Global Summit on Merit Review in Washington D.C. to discuss the future of international collaboration. Recognizing the power of this cooperation, the funding agencies present agreed to create the GRC, a virtual organization with no permanent secretariat focused on broad topics impacting the global scientific enterprise. Since its inception, the GRC has become an important forum for funding agencies worldwide to collaborate.

And this year's meeting marks an incredible milestone for the organization. Today, our gathering here in Panama represents over 10 years of work toward our shared goal of enhancing the global science, technology, and engineering enterprise so that, together, we may take a unified approach to science and tackle the grand challenges facing our planet.

As our nations continue to push the boundaries of what science and technology can achieve, the world has continued to turn to the global science and engineering community for answers to some of society's most pressing challenges. These challenges are interconnected and highly complex, requiring innovative, integrative, and multidisciplinary approaches spanning diverse agencies, scientific disciplines, and geographies.

It is a pleasure to welcome so many of our global partners that will be represented here this week. International collaboration and the sharing of ideas, resources, and best practices between like-minded partners, has always been at the very heart of scientific progress. There is no doubt that this array of diverse experiences and ideas will continue to build on the tremendous success achieved over the first decade of the GRC.

The agenda this week is full of unique opportunities to work together and learn from one another. Our discussions here are informed by the significant input received through last year's GRC Regional Meetings. This year's topics focus on Research Ethics, Integrity, and Culture in the Context of Rapid-Results Research and Science and Technology Workforce Development. These topics continue to be of vital importance to the proliferation of ethical and inclusive science around the world.

The goal of these discussions is to establish norms and cultures that support individual and collective ethical research practices, integrity, and fair merit review and foster open collaboration founded in the shared values of transparency and reciprocity. Considering these discussions, we also address the importance of a broad, vibrant, diverse, and inclusive STEM workforce across all levels of education and expertise. We will identify the competencies that a workforce of the future will need, discuss approaches to international cooperation and partnerships that can create and promote equal opportunity for all people, regardless of background and location, and consider how best to engage young learners to participate in STEM fields.

It is our hope that these discussions will inspire you to have bold new ideas, build and strengthen strategic partnerships, and share your best practices and experiences. To accelerate discovery across all fields of science, unlock the full innovative capacity of our nations, and tackle grand challenges on a global scale, we must continue to prioritize collaboration and coordination on global scale.

In 2012, when discussing the founding of the GRC, the NSF Director noted that "Global scientific collaboration expands the pool of knowledge that belongs to everyone and serves as a tool to improve health, security, and opportunity throughout the world. Good science anywhere is good for science everywhere." As we reflect on the past decade of the GRC, these are still powerful words to guide our actions. Together, our collective impact can continue to create positive change and bring lasting benefits to our communities for decades to come.

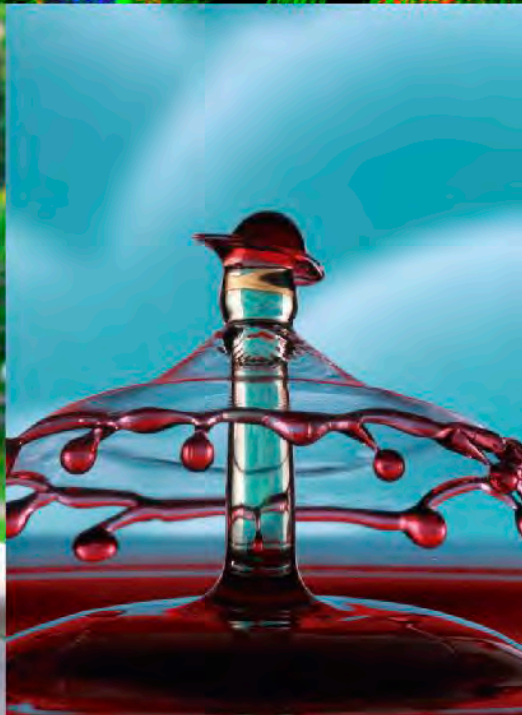
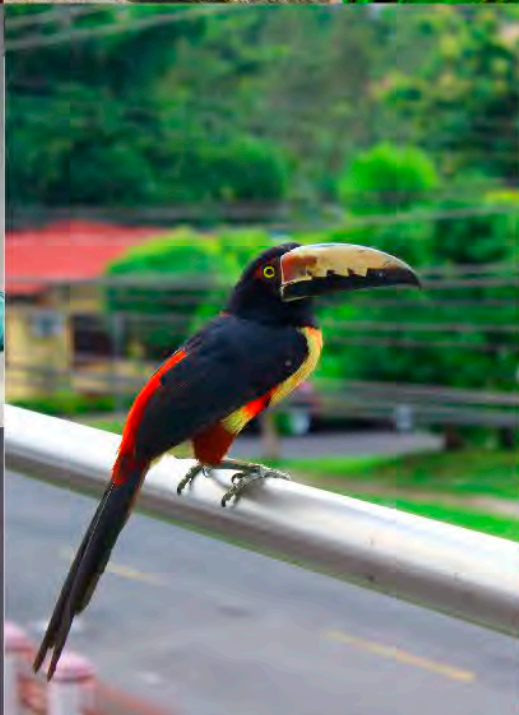
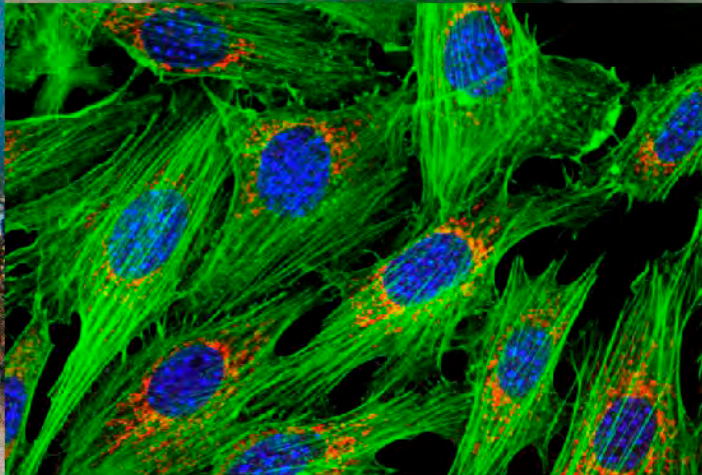
On behalf of SENACYT and NSF, we want to thank you for joining us at the 10th Annual GRC Meeting and welcome you to Panama. We look forward to a successful meeting.



Dr. Eduardo Ortega-Barria
National Secretary,
National Secretariat of Science,
Technology and Innovation



Dr. Sethuraman "Dr. Panch" Panchanathan
Director,
National Science Foundation



Global Research Council
Panama City, Panama
May 30th – June 03rd 2022

Research Agency Representatives

ARGENTINA



Ana Franchi

President

Consejo Nacional de Investigaciones científicas y técnicas (CONICET)

AZERBAIJAN



Mehriban İmanova

Executive Director

Science Development Foundation (SDF)

BELGIUM



Hans Willems

Secretary General

Research Foundation Flanders (FWO)

BRAZIL



Luiz Eugênio Mello

Scientific Director

Fundacao de Amparo a Pesquisa do Estado de Sao Paulo (FAPESP)

BURKINA FASO



Hamidou H. TAMBOURA

General Director

National Research and Innovation Fund for Development (FONRID)

CANADA



Alejandro Adem

President

Natural Sciences and Engineering Research Council of Canada (NSERC)

CANADA



Dominique Charron

Vice President

International Development Research Centre (IDRC)

CHINA



LI Jinghai

President

National Natural Science Foundation of China (NSFC)

CZECH REPUBLIC



Petr Baldrian

President

Czech Science Foundation (GAČR)

EGYPT



Mahmoud Mohamed Sakr

President

Academy of Scientific Research and Technology (ASRT)

EUROPEAN UNION



Lidia Borrell-Damián

Secretary General

Science Europe



Maria Leptin

President

European Research Council



Signe Ratso

Deputy Director General

European Commission, DG Research and Innovation (DG RTD)

FRANCE



Thierry DAMERVAL
Chairman and Managing Director
French National Research Agency (ANR)

GERMANY



Katja Becker
President
German Research Foundation (DFG)

GHANA



Cynthia Asare Bediako
Chief Director
Ministry of Environment Science, Technology and Innovation (MESTI)

GUINEA



Sékou Traoré
Director
Ministry for Higher Education, Research and Innovation

IRAN



Eaman Eftekhary
President
Iran National Science Foundation (INSF)

IRELAND



Philip Nolan
Director General
Science Foundation Ireland (SFI)

IVORY COAST



Yaya Sangare
Executive Secretary
Strategic Support Program for Scientific Research (PASRES)

JAPAN



SUGINO Tsuyoshi
President
The Japan Society for the Promotion of Science (JSPS)

KENYA



Jemimah G. Onsare
CEO
National Research Fund (NRF)

LITHUANIA



Romas Baronas
Chairman
Research Council of Lithuania (LMT)

LUXEMBOURG



Marc Schiltz
President
Science Europe
Secretary General
Luxembourg National Research Fund (FNR)

MALAWI



Elijah Malinga Menard Wanda
Director General
National Commission for Science and Technology (NCST)

MOROCCO



Jamila EL ALAMI
Director
Centre National pour la Recherche Scientifique et Technique (CNRST)



MOZAMBIQUE
Vitória Langa de Jesus
Executive Director
Fundo Nacional de Investigação (FNI)

NETHERLANDS



Marcel Levi
President Executive Board
Dutch Research Council (NWO)

NEW ZEALAND



Prue Williams
General Manager Science Investments
Ministry of Business Innovation & Employment (MBIE)

NORWAY



Mari Sundli Tveit
Chief Executive
The Research Council of Norway (RCN)

OMAN



Saif Al Hiddabi
Undersecretary of Research and Innovation
The Ministry of Higher Education, Research and Innovation (TRC)

PANAMA



Eduardo Ortega-Barria

National Secretary

National Secretariat of Science, Technology and Innovation

PARAGUAY



Bernabé Eduardo Felippo

President

National Council of Science and Technology (CONACYT)

POLAND



Maciej Żylicz

President of the Board

Foundation for Polish Science (FNP)

POLAND



Zbigniew Błocki

Director

National Science Centre (NCN)

SAUDI ARABIA



Munir M. Eldesouki

President

King Abdulaziz City for Science and Technology (KASCST)

SINGAPORE



Teck Seng Low

CEO

National Research Foundation (NRF)

SLOVENIA



Mitja Lainščak

Director

Slovenian Research Agency (ARRS)

SOUTH AFRICA



Fulufhelo Nelwamondo

CEO

National Research Foundation (NRF)

SPAIN



[Rosa María Menéndez López](#)

President

Spanish National Research Council (CSIC)

SPAIN



Domènec Espriu

Director

Agencia Estatal de Investigación (AEI)

SWEDEN



[Ingrid Petersson](#)

Director General

Swedish Council for Environment, Agricultural Sciences and Spatial Planning
(FORMAS)

SWITZERLAND



Matthias Egger

President

Swiss National Science Foundation (SNSF)

TANZANIA



Amos Nungu

Acting Director-General

Tanzania Commission for Science and Technology (COSTECH)

THAILAND

TUNISIA



Besma Ben Mesbeh

Director of Technopoles

Ministry of Higher Education and Scientific Research

TURKEY



Hasan Mandal

President

The Scientific and Technological Research Council of Turkey (TUBITAK)

UGANDA



Martin Patrick Ongol

Acting Executive Secretary

Uganda National Council for Science and Technology

UNITED KINGDOM



Professor Dame Ottoline Leyser
Chief Executive
UK Research and Innovation

UNITED STATES



Sethuraman Panchanathan
Director
National Science Foundation

URUGUAY



Nancy Ghan
Cooperation Executive
National Agency of Investigation and Innovation (ANII)

ZIMBABWE



Timothy Marango
Acting Executive Director
Research Council of Zimbabwe

NATIONAL SECRETARIAT OF SCIENCE TECHNOLOGY AND SENACYT INNOVATION

Secretaría Nacional de Ciencia, Tecnología e Innovación

The National Secretariat of Science, Technology and Innovation of the Republic of Panama is an autonomous institution, which was created by Law 13 of April 15, 1997, later modified by Law 50 of December 21, 2005, and by Law 55 of December 14, 2007, which conferred autonomy to the institution in its administrative tasks. The Secretariat works guided by the guidelines established in the National Strategic Plan for Science, Technology, and Innovation (PENCIYT) 2015-2019.

All activities, projects, and programs of SENACYT have the objective of strengthening, supporting, inducing and promoting the development of science, technology and innovation with the purpose of raising the level of productivity, competitiveness and modernization in the private sector, the government, the academic-research sector, and the population in general.

Our goal is to strengthen, support, induce and promote the development of science, technology and innovation

Mission: Convert science and technology into sustainable development tools for Panama

Vision Become the institutional and focal point for the development of science, technology and innovation, as an integral part of the national development policy, strengthening cultural identity and promoting the dissemination of knowledge to Panamanian society.

Values:

- Creativity: We believe in creativity and imagination as the preferred method of solving problems.
- Excellence: Excellence motivates the best science; SENACYT wishes to be recognized for the excellence of its performance.
- Relevance: SENACYT contributes to transforming available science, technology and innovation opportunities for the better. Therefore, it continually seeks to positively change the surrounding reality.
- Transparency: The secretariat believes in this value as a principle of harmony with its beneficiaries, its allies and itself. Transparency to our users that the culture of merit is the way in which SENACYT provides support.
- Solidarity: SENACYT believes in social responsibility as part of the national leadership.

National Science Foundation



The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense..." NSF is vital because we support basic research and people to create knowledge that transforms the future. This type of support:

- Is a primary driver of the U.S. economy
- Enhances the nation's security
- Advances knowledge to sustain global leadership

With an annual budget of \$8.8 billion (FY 2022), we are the funding source for approximately 27% of the total federal budget for basic research conducted at U.S. colleges and universities. In many fields such as mathematics, computer science and the social sciences, NSF is the major source of federal backing.

We fulfill our mission chiefly by issuing limited-term grants -- currently about 12,000 new awards per year, with an average duration of three years -- to fund specific research proposals that have been judged the most promising by a rigorous and objective merit-review system. Most of these awards go to individuals or small groups of investigators. Others provide funding for research centers, instruments and facilities that allow scientists, engineers and students to work at the outermost frontiers of knowledge.

NSF's goals -- discovery, learning, research infrastructure and stewardship -- provide an integrated strategy to advance the frontiers of knowledge, cultivate a world-class, broadly inclusive science and engineering workforce and expand the scientific literacy of all citizens, build the nation's research capability through investments in advanced instrumentation and facilities, and support excellence in science and engineering research and education through a capable and responsive organization. We like to say that NSF is "where discoveries begin."

Many of the discoveries and technological advances have been truly revolutionary. In the past few decades, NSF-funded researchers have won some [236 Nobel Prizes](#) as well as other honors too numerous to list. These pioneers have included the scientists or teams that discovered many of the fundamental particles of matter, analyzed the cosmic microwaves left over from the earliest epoch of the universe, developed carbon-14 dating of ancient artifacts, decoded the genetics of viruses, and created an entirely new state of matter called a Bose-Einstein condensate.

NSF also funds equipment that is needed by scientists and engineers but is often too expensive for any one group or researcher to afford. Examples of such major research equipment include giant optical and radio telescopes, Antarctic research sites, high-end computer facilities and ultra-high-speed connections, ships for ocean research, sensitive detectors of very subtle physical phenomena and gravitational wave observatories.

Another essential element in NSF's mission is support for science and engineering education, from pre-K through graduate school and beyond. The research we fund is thoroughly integrated with education to help ensure that there will always be plenty of skilled people available to work in new and emerging scientific, engineering and technological fields, and plenty of capable teachers to educate the next generation.

No single factor is more important to the intellectual and economic progress of society, and to the enhanced well-being of its citizens, than the continuous acquisition of new knowledge. NSF is proud to be a major part of that process.

Global Research Council



The Global Research Council is a virtual organization, comprised of the heads of science and engineering funding agencies from around the world, dedicated to promoting the sharing of data and best practices for high-quality collaboration among funding agencies worldwide.

The worldwide growth of public support for research has presented an opportunity for countries large and small to work in concert across national borders. Cooperation and collaboration can enhance the quality of science, avoid unnecessary duplication, provide economies of scale, and address issues that can only be solved by working together.

Research funding agencies have a responsibility to meet these objectives on behalf of the research communities.

The purposes of the Global Research Council thus are sixfold:

1. To improve communication and cooperation among funding agencies;
2. To promote the sharing of data and best practices for high-quality research cooperation;
3. To provide a forum for regular meetings of the Heads of Research Councils;
4. To respond to opportunities and to address issues of common concern in the support of research and education;
5. To be a resource for those institutions wishing to build a world-class research landscape;
6. To explore mechanisms that support the global science enterprise and the worldwide research community.

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President, Natural Sciences and Engineering Research Council (NSERC), Canada

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National Secretary, Secretaría Nacional de Ciencia, Tecnología e Innovación (SENACYT), Panama

Sethuraman Panchanathan,

Director, National Science Foundation (NSF), United States

Sugino Tsuyoshi,

President, Japan Society for the Promotion of Science (JSPS), Japan

Prue Williams,

General Manager Science Investments, Ministry of Business, Innovation and Employment (MBIE)

Wiparat De-ong,

Executive Secretary, National Research Council of Thailand (NRCT)

Marc Schiltz,

President of Science Europe, Chief Executive Officer of the Luxembourg National Research Fund (FNR), Europe

Philip Nolan,

Director General of Science Foundation Ireland (SFI), Ireland

Munir Eldesouki,

President, King Abdulaziz City for Science and Technology (KACST), Saudi Arabia

Yaya Sangare,

Executive Secretary of the Strategic Support Programme for Scientific Research (PASRES), Ivory Coast

Fulufhelo Nelwamondo,

Chief Executive Officer of the National Research Foundation (NRF), South Africa

Executive Support Group

Michael Bright (Executive Secretary)

UK Research and Innovation (UKRI), UK

Aldo Stroebel

National Research Foundation (NRF),
South Africa

Americas

Euclides de Mesquita Neto

São Paulo Research Foundation (FAPESP), Brazil

Shaun Baron

Natural Sciences and Engineering Research Council of Canada (NSERC), Canada

Anabella Vásquez Fábrega

Secretaría Nacional de Ciencia, Tecnología e Innovación (SENACYT),
Panama

Asia/Pacific

Srinivasa Prasanna

Science and Engineering Research Board (SERB), India

Payam Parsizadeh

Iran National Science Foundation (INSF), Iran

Europe

Mathilde Reumax/ Lidia Borrell-Damián,

Science Europe
Science Europe, Europe

Marcus Wilms,

German Research Foundation (DFG), Germany

MENA

Ahmad Al-Abdulkader

King Abdulaziz City for Science and Technology (KACST), Saudi Arabia

Sub-Saharan Africa

Annette Ouattara

Strategic Support Programme for Scientific Research (PASRES),
Ivory Coast

Global Research Council
Panama City, Panama
May 30th – June 03rd 2022

List of Participants

Angola

Diogo Francisco Morais Joao

Argentina

Dr. Ana Franchi

President

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

Ms. Mariana Miguez Murillas

Gerencia de Desarrollo Científico y Tecnológico

Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET)

Australia

Dr. Mel Southwell-Lee

Branch Manager, Policy and Strategy

Australian Research Council (ARC)

Mr. Justin Withers

Director, Access, International and Integrity

Australian Research Council (ARC)

Dr. Oona O'Gorman-Douglas

Australian Research Council (ARC)

Austria

Dr. Christoph Bärenreuter

Programm-Management

Austrian Science Fund (FWF)

Azerbaijan

Dr. Mehriban Imanova

Executive Director

Science Development Foundation under the President of Azerbaijan Republic (SDF)

Ms. Narmin Ahmadova

Science Development Foundation under the President of Azerbaijan Republic (SDF)

Belgium

Dr. Hans Willems

Secretary General

Research Foundation – Flanders (FWO)

Brazil

Dr. Luiz Eugenio Mello

Scientific Director

Sao Paulo Research Foundation (FAPESP)

Dr. Euclides de Mesquita

Adjunct Panel - Special Programs and Collaboration in Research

Sao Paulo Research Foundation (FAPESP)

Ms. Ana Maria Almeida

Co-chair Gender Working Group

Sao Paulo Research Foundation (FAPESP)

Dr. Cristóvão de Albuquerque

Manager for Research Collaborations

Sao Paulo Research Foundation (FAPESP)

Ms. Carolina Martins Costa

Advisor – Research Collaborations

Sao Paulo Research Foundation (FAPESP)

Dr. Alicia Kowaltowski

Professor

Sao Paulo Research Foundation (FAPESP)

Burkina Faso

Dr. Hamidou H. Tamboura

Director General

National Fund for Research and Innovation for Development (FONRID)

Dr. Aminata Kabore

Focal Point (and Gender)

National Fund for Research and Innovation for Development (FONRID)

Canada

Dr. Alejandro Adem

President

Natural Sciences and Engineering Research Council (NSERC)

Mr. Shaun Baron

International Policy Advisor

Natural Sciences and Engineering Research Council of Canada (NSERC)

Mr. Shawn McGuirk

Internal Director

Natural Sciences and Engineering Research Council (NSERC)

Ms. Dominique Charron

Vice President

International Development Research Centre (IDRC)

Ms. Julie Shouldice

Vice-president

International Development Research Centre (IDRC)

China

Dr. Li Jinghai

President

National Natural Science Foundation of China. (NSFC)

Ms. ZHANG Yiwei

Program Officer

National Natural Science Foundation of China (NSFC)

Dr. Li Wencong

Director, Division of Asia, Africa and International Organizations

National Natural Science Foundation of China (NSFC)

Mr. ZHANG Yongtao

Director of Bureau of International Cooperation

National Natural Science Foundation of China (NSFC)

Costa Rica

Mr. Arturo Vicente León

Executive Secretary

Promotora Costarricense de Innovación e Investigación (CONICIT)

Czech Republic

Dr. Petr Baldrian

President
Czech Science Foundation (GACR)

Ms. Eva Molíková
Officer at International Relations Department
Czech Science Foundation (GACR)

Egypt

Dr. Mahmoud Mohamed Sakr
Vice-President
Academy of Scientific Research and Technology (ASRT)

El Salvador

Ing. Carlos Ochoa Cordova
Consejo Nacional de Ciencia y Tecnología CONACYT

European Union

Dr. Maria Leptin
President
European Research Council (ERC)

Mr. Benjamin Turner
Executive Agency
European Research Council (ERC)

Dr. Lidia Borrell-Damián
General Secretary
Science Europe

Mr. Adrien Braem
Senior Policy Office
Science Europe

Dr. Signe Ratso
Deputy Director General
European Commission (EC)

Mr. Jean-Emmanuel Faure
Policy Officer for Open Science at the European Commission
European Commission (EC)

France

Dr. Thierry Damerval

Managing Director
French national research agency (ANR)

Germany

Ms. Katja Becker
President
German Research Foundation (DFG)

Dr. Jörg Schneider
Head Office
German Research Foundation (DFG)

Dr. Marcus Wilms
Head Office
German Research Foundation (DFG)

Ms. Felina Wittke
Webmaster/International Affairs (Africa/TWAS)
German Research Foundation (DFG)

Dr. Berenike Schröder
Programme Officer
German Research Foundation (DFG)

Dr. Michael Mößle
Programme Director
German Research Foundation (DFG)

Ghana

Dr. Cynthia Asare Bediako
Chief Director
Ministry of Environment Science Technology and Innovation (MESTI)

Guatemala

Mr. Antonio José Casasola Santisteban
Asesor de Gestión y Monitoreo de Proyectos
Secretaría Nacional de Ciencia y Tecnología (SENACYT)

Guinea

Dr. Sékou Traoré
Director
Ministry for Higher Education, Research and Innovation

Mr. Thierno Hamidou Bah

Chief of Staff

Ministry for Higher Education, Research and Innovation

India

Dr. Srinivasa Venkatesha Prasanna

Scientist

Science and Engineering Research Board (SERB)

Iran

Mr. Eaman Eftekhar

President

Iran National Science Foundation (INSF)

Mr. Payam Parsizadeh

Director of Science Diplomacy

Iran National Science Foundation (INSF)

Mr. Mohammad Halimi

Policy Advisor

Iran National Science Foundation (INSF)

Ireland

Dr. Philip Nolan

Director General

Science Foundation Ireland (SFI)

Ivory Coast

Dr. Sangare Yaya

Executive Secretary

Fonds pour la Science, la Technologie et L'innovation (FONSTI)

Japan

Mr. Kobayashi Osamu

Director, Department of International Affairs

Japan Science and Technology Agency (JST)

Dr. Kazuyoshi Shimada

Director of Washington D.C. Office

Japan Science and Technology Agency (JST)

Mr. Kaneko Hiroyuki

Vice President

Japan Science and Technology Agency (JST)

Mr. Sugino Tsuyoshi

President

Japan Society for the Promotion of Science (JSPS)

Mr. Mitsukuri, Yasushi

Director, International Policy Planning

Japan Society for the Promotion of Science (JSPS)

Mr. Kodera Kotaro

Research Aid Division 1

Japan Society for the Promotion of Science (JSPS)

Dr. Ito Shota

Japan Society for the Promotion of Science (JSPS)

Ms. Fukuyama Kaori

Japan Society for the Promotion of Science (JSPS)

Kenya

Dr. Jemimah G. Onsare

CEO

National Research Fund (NRF)

Lithuania

Dr. Romas Baronas

Chairman

Research Council of Lithuania (LMT)

Luxembourg

Dr. Marc Schiltz

Chief Executive Officer

Luxembourg National Research Fund (FNR)

Dr. Helena Burg

Head of International Relations

Luxembourg National Research Fund (FNR)

Malawi

Dr. Elijah Wanda

Director General
National Commission for Science and Technology (NCST)

Mr. Kondwani Gondwe
Chief Planning Services Officer
National Commission for Science and Technology (NCST)

Mr. Isaac Chingota
Chief Technology Transfer Officer
National Commission for Science and Technology (NCST)

Morocco

Dr. Jamila EL ALAMI
Director
Centre National pour la Recherche Scientifique et Technique (CNRST)

Mrs. LYAAKOBI Amal
Administrator
Centre National pour la Recherche Scientifique et Technique (CNRST)

Mozambique

Dr. Vitória Langa de Jesus
Executive Director
Fundo Nacional de Investigação (FNI)

Mr. Edson Faria
Head Of Administration and Human Resources
Fundo Nacional de Investigação (FNI)

Ms. Dirce Manthenga Madeira
Project Service Director
Fundo Nacional de Investigação (FNI)

Netherlands

Dr. Marcel Levi
President
Dutch Research Council (NWO)

Mr. Sebastiaan Den Bak
Head of International Policy
Dutch Research Council (NWO)

Mr. Ruben Sharpe
Senior Policy Officer

Dutch Research Council (NWO)

Mr. Ron Winkler

Senior Project Manager
Dutch Research Council (NWO)

Dr. Noémie Aubert Bonn

Postdoctoral Researcher
UHasselt and Amsterdam UMC

New Zealand

Dr. Prue Williams

General Manager Research
Ministry of Business Innovation & Employment (MBIE)

Ms. Joanne Looyen

Manager Service Design & Reporting, Science System Investment & Reporting
Ministry of Business Innovation & Employment (MBIE)

Norway

Dr. Mari Sundli Tveit

CEO
Research Council of Norway (NFR)

Dr. Kristin Danielsen

Executive Director – Internationalization and the research system
Research Council of Norway (NFR)

Oman

Dr. Saif Al Hiddabi

Undersecretary of Research and Innovation
Ministry of Higher Education, Research and Innovation

Panama

Dr. Eduardo Ortega-Barria

National Secretary
National Secretariat of Science, Technology and Innovation

Ms. Anabella Vásquez Fábrega

Head of Office, International Cooperation
National Secretariat of Science, Technology and Innovation

Ms. Andrea De Jesús Franco

Foreign Affair Analyst, Office of International Cooperation
National Secretariat of Science, Technology and Innovation

Mr. Reynaldo Lee Varela

Foreign Affair Analyst, Office of International Cooperation
National Secretariat of Science, Technology and Innovation

Dr. Omar Lopez

Director, National Research System
National Secretariat of Science, Technology and Innovation

Dr. Violetta Cumberbatch

Director for the Development of Scientific and Technological Capacities
National Secretariat of Science, Technology and Innovation

Ms. Omaira M. Rodriguez

Deputy Director for the Development of Scientific and Technological Capacities
National Secretariat of Science, Technology and Innovation

Ms. Paola Franco

Executive Assistant
National Secretariat of Science, Technology and Innovation

Dr. Carlos Maynor Salinas

Senior Planning Adviser
National Secretariat of Science, Technology and Innovation

Dr. María Heller

Director of Innovation in Science and Technology Learning
National Secretariat of Science, Technology and Innovation

Ms. Milagro Mainieri

Director of Scientific Research and Technological Development
National Secretariat of Science, Technology and Innovation

Mr. Alberto De Icaza

Director of Business Innovation
National Secretariat of Science, Technology and Innovation

Paraguay

Mr. Eduardo Felippo

President
National Council of Science and Technology (CONACYT)

Ms. María Teresa Cazal

Director of Interinstitutional and International Relations
National Council of Science and Technology (CONACYT)

Poland

Mr. Zbigniew Błocki

Director
National Science Centre (NCN)

Mr. Maciej Żylicz

President
Foundation for Polish Science

Saudi Arabia

Dr. Munir M. Eldesouki

President
King Abdulaziz City for Science & Technology (KACST)

Dr. Ahmed Mohammed Alabdulkader

Director General of The General Directorate for Research Grants
King Abdulaziz City for Science & Technology (KACST)

Dr. Mohammed Ahmad S. AL-Shamsi

Deputy Director-General for The General Directory of Research Grants
King Abdulaziz City for Science & Technology (KACST)

Dr. Abdulaziz Almalik

Executive director for the Life Science and Environment Research Institute (LSERI)
King Abdulaziz City for Science & Technology (KACST)

Ms. Noura Alshubaily

Mayor's Office
King Abdulaziz City for Science & Technology (KACST)

Mr. Abdulrahma Alhowaiti

Manager Office Vice President
King Abdulaziz City for Science & Technology (KACST)

Singapore

Dr. Low Teck Seng

Chief Executive Officer
National Research Foundation (NRF)

Ms. Karen Tan Li Ping

Deputy Director (Grant Management)
National Research Foundation (NRF)

Ms. Yew Ying Teng

Assistant Head, Grant Management
National Research Foundation (NRF)

Slovenia

Dr. Mitja Lainščak

Director
Slovenian Research Agency (ARRS)

South Africa

Dr. Fulufhelo Nelwamondo

CEO
National Research Foundation

Dr. Clifford Nxomani

Deputy CEO
National Research Foundation

Dr. Aldo Stroebe

Executive Director Strategic Partnerships
Co-chair of the Executive Support Group (GRC)
National Research Foundation

South Korea

Dr. Jang-Yun KIM

Head of International Cooperation Planning
National Research Foundation of Korea (NRF)

Dr. Dong-Seob KANG

Director, Office of International Cooperation Planning
National Research Foundation of Korea (NRF)

Mr. Seung-Mo JEONG

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National Research Foundation of Korea (NRF)

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National Research Foundation of Korea (NRF)

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National Research Foundation of Korea (NRF)

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Spanish National Research Council (CSIC)

Dr. Domènec Espriu

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Agencia Estatal de Investigación (AEI)

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Mr. Stefan Törnqvist

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Swedish Research Council

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Swiss National Science Foundation (SNSF)

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Tanzania Commission for Science and Technology (COSTECH)

Ms. Neema Tindamanyire

Program Officer

Tanzania Commission for Science and Technology (COSTECH)

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Thailand Science Research and Innovation (TSRI)

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Thailand Science Research and Innovation (TSRI)

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Programme Officer

Thailand Science Research and Innovation (TSRI)

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Head, Group of International Affairs

Thailand Science Research and Innovation (TSRI)

Ms. Kanruethai Rod-iw

Foreign Relations Officer

Thailand Science Research and Innovation (TSRI)

Tunisia

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Ministry of Higher Education and Scientific Research

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Scientific and Technological Research Council of Turkey (TÜBİTAK)

Dr. Zeynep Arziman

Programme Coordinator

Scientific and Technological Research Council of Turkey (TÜBİTAK)

Uganda

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Acting Executive Secretary

Uganda National Council for Science and Technology (UNCST)

Ukraine

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Executive Director

National Research Foundation of Ukraine (NRFU)

United Kingdom

Dame Prof. Ottoline Leyser

Chief Executive
UK Research and Innovation (UKRI)

Mr. Michael Bright

Associate Director International at UK Research and Innovation
UK Research and Innovation (UKRI)

Dr. Duncan Robertson

Speechwriter and Communications PS
UK Research and Innovation (UKRI)

Ms. Nia Glover

Senior International Policy and Engagement Manager
UK Research and Innovation (UKRI)

Dr. Catriona Firth

Associate Director for Research Environment
UK Research and Innovation (UKRI)

Dr. Kate Porter Goff

Senior International Policy and Engagement Manager
UK Research and Innovation (UKRI)

United States of America

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National Science Foundation (NSF)

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Head Office of International Science and Engineering
National Science Foundation (NSF)

Mr. Keith Chanon

Program Director
Office of International Science and Engineering
National Science Foundation (NSF)

Dr. Michael Steele

Program Manager
Division Of Research on Learning EHR Direct for Education and Human Resources
National Science Foundation (NSF)

Ms. Karen Lips

Program Director
Office of International Science and Engineering
National Science Foundation (NSF)

Ms. Nahla N. Hilmi

Science Analyst
Office of International Science and Engineering
National Science Foundation (NSF)

Dr. Fahmida Nilufar Chowdhury

Program Director
National Science Foundation (NSF)

Ms. Jennifer Carroll

Program Analyst
Education and Human Resources
National Science Foundation (NSF)

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Cooperation Executive
National Agency of Investigation and Innovation (ANII)

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Research Council of Zimbabwe

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Kim Portmess

Program Consultant
Inter-American Institute for Global Change Research (IAI)

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Marcio da Silveira

Tocantins State Foundation

Chair, Panelist, and Keynote Speaker Biographies

Session 1: Research Ethics, Integrity, and Culture in the Context of Rapid Results

Chair

Dr. Kristin Danielson

Kristin Danielson, Executive Director of the Research Council of Norway, has a PhD from the University of Kentucky in horse nutrition and exercise physiology and had six years of business experience before starting at the Research Council in 2002. She was previously chair of the board of EUREKA and the Association of Innovation Agencies in Europe (Taftie) and has held several positions under the European Commission. She is currently a member of the board of directors of NordForsk and Fulbright in Norway, and of the Swedish University of Agricultural Sciences (SLU).



Presenter

Dr. Mike Steele

Mike Steele is a Program Officer in the Division of Research on Learning at the National Science Foundation in the United States. Dr. Steele is a mathematics educator whose research focuses on the nature of secondary mathematics teachers' mathematical knowledge for teaching and how this knowledge can be developed through teacher preparation and professional development. At the National Science Foundation, Dr. Steele serves as the lead for the Discovery Research PreK-12 funding program and a program officer in the Ethical and Responsible Research funding program.



Keynote Speaker

Dr. Prue Williams

Prue Williams is General Manager, Science System Investment and Performance for the Ministry of Business, Innovation and Employment (MBIE). Her branch of MBIE makes, manages and assesses scientific investments to meet New Zealand's economic, social and environmental goals. Prue has a PhD in soil science and a research career in understanding sustainable land management issues in pastoral and cropping systems. She was General Manager Research for Crop and Food Research, one of the New Zealand Crown Research Institutes, and spent four years as Chief Science Adviser to the Foundation of Research Science & Technology and the Ministry of Science and Innovation. Prue has been involved in collaborative international research programmes and has been a regular reviewer of international proposals and programmes. She currently sits on the Governing Board for the Global Research Council. In 2021, Prue was awarded the New Zealand Public Service Medal in recognition of her career in the New Zealand science system.



Panelists

Dr. Alejandro Adem

Alejandro Adem, President of the Natural Sciences and Engineering Research Council of Canada was appointed President of the Natural Sciences and Engineering Research Council of Canada (NSERC) in October 2019. As a highly accomplished researcher in the field of mathematics and a faculty member at the University of British Columbia, Professor Adem has significant leadership experience in the Canadian research and innovation ecosystem. Before joining NSERC, he was CEO and Scientific Director of Mitacs (2015–19) where he oversaw a significant expansion of its domestic and international internship programs, as well as launching the Mitacs Canadian Science Policy Fellowships, an Indigenous engagement initiative and an innovative entrepreneurship program. Prior to that, he served as Director (2008–2015) of the Pacific Institute for the Mathematical Sciences, a research and training consortium supporting the mathematical sciences across Western Canada. From 1989 to 2004 he was a faculty member at the University of Wisconsin-Madison (USA).



Dr. Jemimah Onsare

Jemimah G. Onsare, Chief Executive Officer NRF has experience in resource mobilization and management of Research Grants and has participated in various programmes within the ST&I sector both at National and International level. Dr. Onsare also has experience in Microbiological Research (Antimicrobials), grants proposal writing and has published several research articles in international Journals of repute. She holds a PhD (Applied Microbiology – Antimicrobials) from Guru Nanak Dev University, Amritsar.



Ms. Signe Ratso

Signe Ratso is the Deputy Director General of Research and Innovation of the European Commission since March 2018. In this function, her areas of responsibility include International Cooperation in Research and Innovation as well as R&I in Industrial Technologies and in the area of Transport. Before joining DG RTD, she worked in different senior management positions in DG TRADE since 2006. From 2011 to 2018 she was Director for Trade Strategy, Analysis and Market Access in DG TRADE. She was also in charge of implementation issues as well as industrial sector aspects of the EU trade policy, including energy and access to raw materials. Previously (from 2007 to 2011) she was Director for WTO, legal matters, and food-related sectors in DG TRADE. She also covered OECD issues, export credits and export controls of dual use goods. After joining the Commission at the beginning of 2006, she held the post of Principal Adviser in DG TRADE for the first year.



Session 2: Science and Technology Workforce Development

Chair: Eduardo Ortega Barria

He was born in Chorrera City , Panama. He finished his medical studies at the Autonomous University of Guadalajara, Mexico. Subsequently he did his specialty in Pediatrics at the National Institute of Pediatrics in Mexico City and later the sub-specialty in Pediatric Infectious Diseases at the Children's Hospital of Mexico "Federico Gomez", in Mexico City.

Between 1987 and 1993 he did postdoctoral training in Tropical Medicine and Parasitology, focusing on research in Cellular and Molecular Biology of parasites, among them: *Trypanosoma cruzi*, *Giardia lamblia* and *Pneumocystis carinii* at Tufts University School of Medicine / New England Medical Center, Division of Geographic Medicine and Infectious Diseases, and served as Instructor in Medicine between 1988 and 1993 at the Department of Medicine, New England Medical Center, Boston Massachusetts.

In 1990, he received the "Maxwell Finland" Young Researcher of the Year Award from the Massachusetts Infectious Diseases Society.

Between 1993 and 1998, he completed postdoctoral training in Pediatric Infectious Diseases at Lucile Salter Packard Children's Hospital, Division of Pediatric Infectious Diseases, Stanford University, and a postdoctoral fellowship in Cellular and Molecular Biology of *Toxoplasma gondii* in the Department of Microbiology and Immunology, Stanford University School of Medicine.

From 1998 to 2003 he held various leadership positions at the Gorgas Memorial Institute for Health Studies, Panama, at Florida State University-Panama, at the Institute for Advanced Scientific Research and High Technology Services (INDICASAT as in Spanish), of the National Secretariat of Science, Technology, and Innovation, Panama, and at the Pediatrics Hospital of The Social Security Entity, Panama. From 2000-2007 he was an Associate Scientist at the Smithsonian Tropical Research Institute. From 2001 to 2013 he was Assistant Professor, Department of Microbiology and Tropical Medicine, George Washington University, Washington, DC. Dr. Ortega-Barría has authored 98 research articles, 30 textbook chapters on parasitology, pediatrics, infectious diseases and vaccines, and is co-inventor of 2 patents and 2 provisional patent applications in parasitology in the United States.

He served from 2006 to 2020 as Vice President and Director of Medical Affairs and Research and Clinical Development for Latin America and the Caribbean of GlaxoSmithKline Vaccines. Since 2018 he has been a Researcher of the National Research System of Panama. He currently serves as National Secretary of the National Secretariat of Science, Technology, and Innovation.



Prof. Dame Ottoline Leyser

Professor Dame Ottoline Leyser is the Chief Executive of UK Research and Innovation (UKRI) and Regius Professor of Botany at the University of Cambridge.

UKRI brings together the UK's Research Councils, Innovate UK and Research England, operating with a combined budget of more than £8bn per year.

Prior to this Ottoline Leyser was Director of the Sainsbury Laboratory, University of Cambridge, an interdisciplinary institute which combines computational modelling with molecular genetics and cell biology in the control of plant growth and development.

Ottoline has a long-term interest in research culture and chaired the Nuffield Council on Bioethics project examining these issues. She has been actively engaged in work aimed at generating a more inclusive, creative and connected culture. She has also worked extensively in science policy, for example serving as Chair of the Royal Society's Science Policy Expert Advisory Committee, Chair of the Management Committee of the University of Cambridge Centre for Science and Policy, and as a member of the Prime Minister's Council for Science and Technology.

She is a Fellow of the Royal Society, a Member of the Leopoldina and EMBO, and an International Member of the US National Academy of Sciences. In 2017 she was appointed DBE for services to plant science, science in society and equality and diversity in science.

Presenter

Dr. Maria Elena Bottazzi

Maria Elena Bottazzi, is Associate Dean of the National School of Tropical Medicine, Professor of Pediatrics, Molecular Virology & Microbiology, Division Chief of Pediatric Tropical Medicine and Co-director of Texas Children's Center for Vaccine Development at Baylor College of Medicine in Houston and Distinguished Professor in Biology at Baylor University in Waco. She is an internationally recognized tropical and emerging disease vaccinologist, global health advocate and co-creator of a patent-free, open science COVID-19 vaccine technology that led to the development of Corbevax, a COVID-19 vaccine for the world. She pioneers and leads the advancement of a robust infectious and tropical disease vaccine portfolio tackling diseases such as coronavirus, hookworm, schistosomiasis, and Chagas that affect disproportionately the world's poorest populations. She also has established innovative partnerships in Latin America, Middle East and Southeast Asia, making significant contributions to innovative educational & research programs, catalyze policies and disseminate science information to reach a diverse set of audiences. As global thought-leader she has received national and international highly regarded awards, has more than 280 scientific papers and participated in more than 250 conferences worldwide. She is Member of the National Academy of Science of Honduras and Emerging Leader in Health and Medicine of the National Academy of Medicine in the US. Dr. Bottazzi is a Fellow of the American Society of Tropical Medicine and Hygiene (ASTMH), the Executive Leadership in Academic Medicine (ELAM), the Leshner Leadership Institute



for Public Engagement and Sr. Fellow of the American Leadership Forum (ALF). Forbes LATAM in 2020 and 2021 selected Dr. Bottazzi as one of 100 Most Powerful Women in Central America. Dr. Bottazzi has served in several National Academies Ad-hoc Committees and serves as Co-chair of the Vaccines and Therapeutics Taskforce of the Lancet Commission on COVID-19. In 2022, alongside Dr. Peter Hotez, she was nominated by Congresswoman Lizzie Fletcher of Texas for the Nobel Peace Prize. Dr. Bottazzi obtained her bachelor's degree in Microbiology and Clinical Chemistry from the National Autonomous University of Honduras and a doctorate in Molecular Immunology and Experimental Pathology from the University of Florida. Her post-doctoral training in Cellular Biology was completed at University of Miami and Pennsylvania, where afterwards worked at the George Washington University prior to relocating to Texas.

Moderator

Dr. Joshua Tewksbury

Is the director of the Smithsonian Tropical Research Institute (STRI). Tewksbury is an ecologist with more than two decades of research in conservation and biodiversity, as well as nearly a decade of executive leadership experience at international research institutes. At Future Earth, a global research program dedicated to sustainability and global change, Tewksbury led a network of tens of thousands of scientists and manages a wide range of conservation research projects, staff, programs, and partnerships. He has also founded initiatives like the Earth Leadership Program, which supports skills development for academic researchers working to address sustainability challenges. Previously, from 2012 to 2015, he was the founding director of the Luc Hoffman Institute, a global research center within World Wildlife Fund International focused on conservation science. Tewksbury is also co-founder and executive editor of Anthropocene magazine, a publication that highlights sustainability solutions. He holds faculty positions at the University of Colorado at Boulder, Colorado State and George Mason University's Department of Environmental Science and Policy. He also has an appointment as senior scholar with Colorado State University's School of Global Environmental Sustainability and is a member of the National Academy of Sciences' Board on Environmental Studies and Toxicology. Over the course of his research career, Tewksbury has published more than 85 scientific papers on topics in conservation, climate change and natural history, including the relationships and diversity of tropical plants, animals, and fungi. He holds a bachelor's degree in field biology from Prescott College and a doctorate from the University of Montana in organismal biology and ecology.



Panelists

Dr. Teresa Zielińska

Full professor in technical sciences, deputy-director of the Institute of Aeronautics and Applied Mechanics of Warsaw University of Technology (WUT). She graduated from the Faculty of Electronics and Information Technology of WUT (M.Sc.), received Ph.D. from the Faculty of Power and Aeronautical Engineering of WUT and habilitation from the Institute of Biocybernetics and Biomedical Engineering of the Polish Academy of Sciences. She is employed by WUT and is a member of the Committee of Automatic Control and Robotics of the Polish Academy of Sciences, vice-chair of the Polish IEEE Robotics and Automation Section (2016-2019) and Secretary General of International Federation for the Promotion of Mechanism and Machine Science (IFToMM) (2011-2019). She is the local coordinator of international program European Master of Advanced Robotics (EMARO), member of the Team of Experts of the Ministry of Science and Higher Education (2017-2018). She has conducted research in several universities: Politechnic University of Turin (within a grant awarded by the Italian Ministry of Education), Loughborough University of Technology (Great Britain, grant awarded by the Science and Engineering Research Council), Nanyang Technological University (Singapore) – employed as a senior fellow. Visiting professor at: National University of Singapore, Nanyang Technological University (Singapore), Griffith University (Brisbane, Australia), Keio University (Hiyoshi, Japan), Shanghai Jiaotong University (Shanghai, China). She cooperated with Ohio State University (USA) within the Poland-USA Marie Curie-Skłodowska Fund. She is a co-recipient of 2 national patents and author or co-author of 300 publications. Teresa Zielinska received the award of the Minister of Higher Education (Poland) for her research monograph, Gold Cross of Merit and Medal of the Commission of National Education as well as many university awards for her research. Her research interest concern robotics, in that development of real-time control systems, motion synthesis and design of novel robotic systems. Teresa Zielinska also works on walking machines, humanoids, and mobile robots. She also developed a sensor prototype for measuring shear forces and the control system for the team of autonomous walking machines. Currently she focuses on bio-robotics. She is a member of the editorial boards of several national and international journals. She managed or participated in national, European, and international research grants.



Dr. Fulufhelo Nelwamondo

Is the CEO of the National Research Foundation of South Africa. He holds a PhD in Electrical Engineering, with specialization in Computational Intelligence from the University of the Witwatersrand. He was a Postdoctoral Fellow at the Graduate School of Arts and Sciences at Harvard University and was the youngest South African to receive the prestigious Harvard-South Africa Fellowship. Fulufhelo is a registered Professional Engineer, a Senior Member of the Institute of Electronic and Electrical Engineers (IEEE), a senior member of the Association of Computing Machinery (ACM), amongst others. Prior to his current role, he held executive positions at the Council for Scientific and Industrial Research, and has served in several Boards, Councils, Ministerial Task Teams, and Advisory committees. Fulufhelo is passionate about the Fourth Industrial Revolution, particularly in the potential impact its research and technologies can bring in the advancement of humankind, thereby addressing the social ills of poverty, unemployment, and inequality. He has been a recipient of many awards, for his contribution to Science, Engineering and Technology. In 2017, he was awarded the Order of Mapungubwe in Silver, the highest civilian honor bestowed by the President of the Republic of South Africa. Fulufhelo has worked in areas of advanced modelling, information security, data science, and artificial intelligence, and is a Visiting Professor at the University of Johannesburg's Institute of Intelligent Systems.



Dr. Fernanda Beigel

Fernanda Beigel is a Sociologist and PhD in Political and Social Sciences (2001) by the Universidad Nacional de Cuyo (Mendoza-Argentina). She pursued her postdoctoral studies at the Centre de Sociologie Européenne (EHESS, Paris). Chair of the Advisory Committee for Open Science at UNESCO (2020-2021) and Chair of the Argentinian National Committee for Open Science. Senior Advisor of the Latin American Forum on Research Evaluation (FOLEC-CLACSO). Bernardo Houssay Prize (2003), CLACSO Essay Award (2004), Mention of Honour to Scientific Value-Argentine National Senate (2017). Currently she is Principal Researcher at the National Council of Scientific and Technical Research (CONICET, Argentina), Head Professor at the National University of Cuyo (UNCuyo) and the Director of the Research Center on the International Circulation of Knowledge (CECIC).



Dr. Munir M. Eldesouki

Is currently the President of King Abdulaziz City for Science and Technology (KACST), as well as the Advisor to the Chairman of the Research Development and Innovation Authority (RDIA) where he leads the foundation team for the RDIA's establishment. His 20+ years of experience spans the spheres of R&D, Innovation, ICT and Digitalization, where he played influential roles at various levels as seasoned researcher, inventor and leader setting national strategies, driving execution, and shaping Saudi Arabia's R&D, innovation, ICT & Digital ecosystems. Previously, Dr. Eldesouki held various C-level positions in the Saudi government. He served as the Assistant Minister of ICT, the Deputy Minister of Planning and Development at Ministry of Communications and Information Technology (MCIT), as well as the Senior Advisor and Chief of Staff to H.E. Ahmed Al-Khateeb assisting in the establishment of new government military entities and vision 2030 programs. Dr. Eldesouki had led several research institutes and programs with international collaborators from the United States, the United Kingdom, Switzerland, Canada, China, South Africa, Belarus, and others in private and public sectors. He was also in charge of several national institutes and centers focused on innovation, material science, and nanotechnology. Dr. Eldesouki holds a bachelor's degree in electrical engineering from KFUPM in Saudi Arabia and an M.Eng. degree in Engineering Entrepreneurship and Innovation, in addition to a M.A.Sc. and a PhD degree in Electrical & Computer Engineering from McMaster University in Canada.



He has also chaired or served on numerous national-level committees including the Executive Committee for the Digital Collaboration Organization, the Digital Economy Task Force under the Saudi G20 2020 Presidency and the 2021 Italian Presidency, and the Governing Board for Global Research Council. Besides, he has served as a member and then Chairman of the Board of Trustees of Custodian of the Two Holy Mosques Award which honors inventors and talents, Chairman for the Board of Trustees of Almari Award for Scientific Innovation, Chairman of the Board of Directors for the Center for the Fourth Industrial Revolution in KSA, which is affiliated with the WEF, as well as a member of the following boards: the Saudi Space Commission, the King Abdulaziz & his Companions Foundation for Giftedness & Creativity, the King Salman Science Oasis, the General Organization for Military Industries, the General Authority for Survey and Geospatial Information, and the Saudi Business Center, and the Saudi Center for Competitiveness. He received several scholarships and awards in recognition of his scientific and professional excellence, including the King Abdulaziz Order of Merit Excellence Medal of the First Class, the King's Prize for Inventors, the Natural Science and Engineering Research Council of Canada scholarship, the Xerox Center for Engineering Entrepreneurship grant, and the Canadian Microelectronics Corporation grant.

Dr. Pongpan Kaewtatip

He is the Vice President, Thailand Science Research and Innovation (TSRI). Dr. Kaewtatip received his PhD from Nippon Institute of Technology (NIT), Japan in 2000. He has been working at Faculty of Engineering, KMUTT until the present. Now, he is an Associate Professor at the Department of Mechanical Engineering. He had been the head of department from 2010-2014. He is also the Committee of the Society of Automotive Engineers, Thailand (TSAE) until now. He was the Vice President for R&D of TSAE for several years. He has also served as Vice president for research promotion of the Electric Vehicle Association of Thailand (EVAT) since 2016. His research interest includes metal forming technology, as well as the forming of new frontier materials such as SMA, biomedical materials, etc. He is also interested in the field of energy policy, renewable energy especially in transport sector. Dr. Pongpan has been working with The Thailand Research Fund (TRF) since 2014 before TRF has been transformed to Thailand Science Research and Innovation (TSRI) in 2019. He is now the Vice President of TSRI. TSRI is the national organization responsible for policy planning and budget allocator under the Ministry of Higher Education, Science, Research and Innovation since 2nd May 2019. TSRI serves as secretariat office of the National Science Research and Innovation Promotion Committee, whose roles are:



- Drafting National Science, Research and Innovation (SRI) Plan.
- Allocating National SRI Budget to all relevant Organization. (Government, Non-Government, Private Sector and Civil Society)
- Empowering SRI Organizations.
- Promoting Networking and International Collaboration.

Session 3: Reporting and Sharing

Chair: Dr. Luiz Eugênio Mello

Luiz Eugênio Araújo de Moraes Mello graduated in Medicine from the Federal University of São Paulo (UNIFESP) in 1982. He has a master's degree (1985) and a PhD in molecular biology (1988) from the same university. He attended the University of California, Los Angeles (UCLA) in the United States as a postdoctoral fellow in neurophysiology between 1988 and 1991. He earned a Habilitation in 1994 and a Full Professorship in Physiology in 1998.



Dr. Mello was a member of the Advisory Committee on Biophysics, Biochemistry, Pharmacology, Physiology and Neurosciences (CA-BF) to the Nacional Council for Scientific and Technological Development (CNPq) in 2000-03, and a member of an adjunct panel to FAPESP's Scientific Directorate in 2003-06.

He has been a full member of the São Paulo State Academy of Sciences (ACIESP) since 2007 and of the Brazilian Academy of Sciences (ABC) since 2010. In the latter year he was awarded the Grand Cross of the National Order of Scientific Merit.

Dr. Mello is a board member of CNPq, the Brazilian Service of Support for Micro and Small Enterprises (SEBRAE), the Brazilian Center for Research in Energy and Materials (CNPEM), the D'Or Institute for Research and Education (IDOR), the Innovation Center at Fundação Getulio Vargas's Business School (FGVIn), the Brazilian Lymphoma and Leukemia Association (ABRALE) and Tibet House Brazil. He is sector editor of the Brazilian Journal of Medical and Biological Research.

Formerly he was Pro-Rector for Undergraduate Studies at UNIFESP (2005-08), President of the Brazilian Federation on Experimental Biology Societies (FeSBE, 2007-11), a board member of the Brazilian Society for the Advancement of Science (SBPC, 2014-17) and Vice President of the National Association for Research and Development of Innovative Companies (ANPEI, 2016-18).

Dr. Mello is also a former Director of Technology and Innovation at Vale S.A., where he set up the Vale Technological Institute (2009-18), Head of R&D at IDOR (2018-20), and Head of UNIFESP's Technological and Social Innovation Agency (AGITS, 2019-20). He specializes in neural plasticity, epilepsy, neurodegeneration, and S&T management.

Speakers

Dr. Elijah Wanda

Director General

National Commission for Science and Technology



In the exercise of its mandate conferred by the Malawi Government under the Science and Technology Act, No. 16 of 2003; Gazette Supplement Notice No.1 of 20th February, 2009, the Board of Directors of the National Commission for Science and Technology (NCST) appointed Associate Professor Elijah Malinga Menard Wanda (PhD) as its 3rd Director General (DG) with effect from 29th May, 2020. Associate Professor Wanda holds a PhD in Nanotechnology and Material Chemistry, which he obtained in 2018 from the University of South Africa, College of Science, Engineering and Technology under the Nanotechnology and Water Sustainability Research Unit.

As Director General, Associate Professor Wanda undertakes to diligently and faithfully perform the duties assigned to him for the term of his engagement and act in all respects according to the lawful instructions or directions given to him by the Employer for the provision of the strategic leadership and guidance to NCST in the implementation of corporate policies, work progress and plans as approved by the Board in line with the commitment of the Government of Malawi in advancing Science and Technology in Malawi as declared in the National Science and Technology Policy.

Prior to his appointment at NCST, Associate Professor Wanda served as an Associate Professor and Head of Department of Chemistry, Faculty of Science, Technology and Innovation (FoSTI) of Mzuzu University (MZUNI), undertaking research and teaching of both undergraduate and postgraduate students in Chemistry. He also served as Senate representative on MZUNI Council as well as FoSTI representative on MZUNI Senate.

Associate Professor Wanda brings with him a wealth of research, technical and managerial experience and expertise in strategic and operational planning, organizational structures, which he obtained from Mzuzu University. He is a recipient of the following awards: (1) 2016 Ghandi Inspired Research and Innovation 5th Annual Research Showcase – Natural and Physical Sciences (Best Long Paper Category) – South Africa; (2) 2015 Ghandi Inspired Research and Innovation 4th Annual Research Showcase – Natural and Physical Sciences (2nd runner up – Oral presentation Long Paper Category) – South Africa. His PhD thesis involved hydrochemical modelling and removal of emerging micropollutants from water using fabricated nitrogen-doped carbon nanotubes/polyethersulfone (N-CNT/PES), silicon dioxide (silica) (SiO₂) and germanium dioxide (GeO₂) embedded polyethersulfone (PES) blend membranes.

Associate Professor Wanda is mindful of the global recognition of the role of science and technology in wealth creation, which has resulted in various efforts to enhance science and technology. To this effect, through the development and application of science and technology, Malawi can create wealth necessary for transformation from being a predominantly importing and consuming nation to a predominantly producing and exporting nation. This therefore calls for bringing together expertise from research, scientific and technological institutions in the country to actively collaborate, consult and cooperate towards development and application of science and technology for worthwhile innovations that can stimulate sustainable growth and development.

In his tenure, Associate Professor Wanda will strive to enhance the character and visibility of NCST as a strong research, science, technology and innovation hub necessary to stimulate socio-economic developments, urgently required to improve the people lives and livelihoods in Malawi. One of his priorities during his tenure will be on high level research management and more meaningful engagements with the Malawi Government and stakeholders from research, scientific and technological institutions within Malawi and beyond. Also high on the agenda is to ensure that NCST has vibrant science and technology fund that could help NCST move towards being a self-sustaining science and technology institution in Malawi. NCST wishes him all the best as he steers the institution towards achieving a nation with scientifically and technologically- led sustainable growth and development.

Yaya Sangare

Secretary General

Science, Technology and Innovation Fund, Ivory Coast

Since 2007, Dr Sangare has been the Executive Secretary of the Programme d'Appui Stratégique à la Recherche Scientifique (PASRES), one of the main structures for supporting research and innovation in Côte d'Ivoire.

Dr Sangare has expertise in two fields: materials science and organizational management. Following the completion of a doctorate in materials physics from Université de Montpellier (France) and graduate degrees from the Institut d'Administration des Entreprises de Poitiers (France), he taught at the l'Institut National Polytechnique in Yamoussoukro (Côte d'Ivoire) and later joined the Chamber of Commerce and Industry as the Director of training and development for executives. He then held various positions in the private sector in Côte d'Ivoire and Burkina Faso. This career path provided him with critical insight into the expectations of industry and allowed him to pursue efforts to build linkages with the research and innovation sectors. Since May 2019, he is the Secretary General of the Science, Technology and Innovation Fund (FONSTI), a new funding body set up by the State of Côte d'Ivoire to help the Côte d'Ivoire to build a knowledge-based economy.



Ana Maria Franchi

*President, National Scientific and Technical
Research Council Argentina*

Dr Franchi became president of CONICET in December 2019. She is a senior researcher at CONICET and Director of the Centre for Pharmacological and Botanical Studies (Centro de Estudios Farmacológicos y Botánicos, CEFYBO, CONICET-UBA) since 2014.



Dr Franchi is the president of the 'Argentine Network of Gender, Science and Technology' (RAGCyT in Spanish) and member of the group Argentine Science and Technology (CyTA). She was the president of the Argentine Society of Clinical Research, coordinator of the 'Technical Committee of Evaluation of the Program of Quality of Life and Economic and Social Development and of the Committee of Medical Sciences II of the FONCYT of the Ministry of Science, Technology and Innovation. She had worked as a member of the National Evaluation Committee of Health, Science and Technology (SACyT) of the Ministry of Health of Argentina.

Dr Franchi graduated in Chemistry and has a PhD in Chemical Sciences from the Facultad de Ciencias Exactas y Naturales of the University of Buenos Aires (UBA). Her research subject is Reproductive Health focused on physiopathology of pregnancy and birth. She specialized in the situation of women in Science and Technology institutions.

Luiz Eugenio Mello

*Scientific Director
The Sao Paulo Research Foundation, Brazil*

Luiz Eugênio Araújo de Moraes Mello graduated in Medicine from the Federal University of São Paulo (UNIFESP) in 1982. He has a master's degree (1985) and a PhD in molecular biology (1988) from the same university. He attended the University of California, Los Angeles (UCLA) in the United States as a postdoctoral fellow in neurophysiology between 1988 and 1991. He earned a Habilitation in 1994 and a Full Professorship in Physiology in 1998.



Dr. Mello was a member of the Advisory Committee on Biophysics, Biochemistry, Pharmacology, Physiology and Neurosciences (CA-BF) to the Nacional Council for Scientific and Technological Development (CNPq) in 2000-03, and a member of an adjunct panel to FAPESP's Scientific Directorate in 2003-06.

He has been a full member of the São Paulo State Academy of Sciences (ACIESP) since 2007 and of the Brazilian Academy of Sciences (ABC) since 2010. In the latter year he was awarded the Grand Cross of the National Order of Scientific Merit.

Dr. Mello is a board member of CNPq, the Brazilian Service of Support for Micro and Small Enterprises (SEBRAE), the Brazilian Center for Research in Energy and Materials (CNPEM), the D'Or Institute for Research and Education (IDOR), the Innovation Center at Fundação Getulio Vargas's Business School (FGVIn), the Brazilian Lymphoma and Leukemia Association (ABRALE) and Tibet House Brazil. He is sector editor of the Brazilian Journal of Medical and Biological Research.

Formerly he was Pro-Rector for Undergraduate Studies at UNIFESP (2005-08), President of the Brazilian Federation on Experimental Biology Societies (FeSBE, 2007-11), a board member of the

Brazilian Society for the Advancement of Science (SBPC, 2014-17) and Vice President of the National Association for Research and Development of Innovative Companies (ANPEI, 2016-18).

Dr. Mello is also a former Director of Technology and Innovation at Vale S.A., where he set up the Vale Technological Institute (2009-18), Head of R&D at IDOR (2018-20), and Head of UNIFESP's Technological and Social Innovation Agency (AGITS, 2019-20). He specializes in neural plasticity, epilepsy, neurodegeneration, and S&T management.

Prof. Katja Becker

Chair Governing Board

Global Research Council (GRC)

Katja Becker is the President of the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation). She studied medicine at Heidelberg University, where she also obtained her doctoral degree and habilitation.

After a position at the Center for Infectious Diseases, Würzburg University, she accepted a chair in Biochemistry and Molecular Biology at Giessen University. Education and research led her to Africa, Australia, Switzerland, the UK and the US. Her research interests focus on cellular redox metabolism as a drug target in malaria parasites and cancer cells. Until 2019 she was the coordinator of the DFG Priority Programme 1710, which examines the thiol-based regulation of enzymes, and spokesperson of the LOEWE Center DRUID, which aims to develop novel drugs, vaccines and diagnostics against neglected tropical diseases. Katja Becker is active in multiple scientific advisory boards and served as vice president at Giessen University. From 2014 to 2019, she was vice president of the DFG. Her work has been honoured with the Ludolf Krehl Prize, the Carus Medal, the Rudolf Leuckart Medal and membership in the German National Academy of Sciences Leopoldina. Since 2021, Katja Becker is also Chair of the Governing Board of the Global Research Council (GRC).



Li Jinghai

President

National Natural Science Foundation of China (NSFC)

Jinghai LI is President of the National Natural Science Foundation of China (NSFC). From 2004 to 2016, he was a Vice-President of the Chinese Academy of Sciences (CAS).

Professor Li established the Energy-Minimization Multi-Scale (EMMS) model for gas-solid systems. The model has been extended to many different complex systems, and generalized into the EMMS paradigm of computation featuring the structural similarity between problem, modeling, software and hardware, which has been implemented by constructing a supercomputer with capacity of 1 Pflops and has been used widely in chemical and energy industries. He is also engaged in research in clean coal technology. Currently, he is devoted to promoting the concept of mesoscience based on the EMMS principle of compromise in competition as an interdisciplinary science.



He is the Vice-Chairman of China Association for Science and Technology, the Vice-President of Chemical Industry and Engineering Society of China. From 2014 to July 2018, he was the Vice-President of the International Council for Science (ICSU) Committee for Scientific Planning and Review. He is editor-in-chief of Particuology and sits on editorial committees for several other

international periodicals. He holds memberships from CAS, TWAS (The World Academy of Sciences), SATW (Swiss Academy of Engineering Sciences), RAEng (The Royal Academy of Engineering) and ATSE (The Australian Academy of Technology and Engineering).

Marcos Regis de Silva

Executive Director

Inter-American Institute for Global Change Research (IAI)



Dr. Marcos Regis da Silva is Executive Director of the Inter-American Institute for Global Change Research (IAI). He is responsible for the provision of strategic advice to high level policy makers on issues related to global change and their socio-economic impacts, development of linkages between the IAI's scientific agenda and global governance environmental frameworks, especially the Sustainable Development Goals, and long-range strategic planning and financial oversight of the IAI Directorate to ensure the implementation of the IAI's programme of work.

Previously he held the post of Chief, Knowledge Management and Outreach Services with the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). He was responsible for issues related to the use of new information and communication technologies, including those to conduct international trade in specimens of CITES-listed species that is legal, sustainable, and traceable. He was previously with the Convention on Biological Diversity where he was responsible for the implementation of the Clearing-House Mechanism and for the technical implementation of the Biosafety Clearing-House under the Cartagena Protocol on Biosafety.

Before joining the United Nations, Marcos was a Programme Officer with the NAFTA Commission on Environmental Cooperation where his duties included the development of the North American Biodiversity Information Network. He holds a PhD from McGill University and was an Adjunct Professor with the Department of Distance Education and a Computer and Networks Librarian for many years.

Session 4: Future directions

Chair: Sethuraman Panchanathan

National Science Foundation (NSF)

The Honorable Sethuraman Panchanathan is a computer scientist and engineer and the 15th director of the U.S. National Science Foundation (NSF). NSF is an \$8.8B independent federal agency and the only government agency charged with advancing all fields of scientific discovery, technological innovation, and STEM education.



Dr. Panchanathan has a distinguished career in science, technology, engineering, and education that spans more than three decades. He served as executive vice president of the Arizona State University Knowledge Enterprise, where he also founded the Center for Cognitive Ubiquitous Computing. Prior to becoming director of NSF, Panchanathan served on the National Science Board for six years and has also served on and chaired numerous high-level research and innovation organizations. He is a fellow of the National Academy of Inventors, the American Association for the Advancement of Science, the Association for Computing Machinery, and other prestigious science and engineering organizations. Dr. Panchanathan's scientific contributions have advanced the areas of human-centered multimedia computing, haptic user interfaces, person-centered ubiquitous computing technologies for empowering individuals with a range of abilities.

Speakers

Mr. Michael Bright

Executive Secretary, Global Research Council

Associate Director, International Policy and Stakeholder Engagement, UK Research and Innovation

Michael Bright is Executive Secretary to the Global Research Council (GRC); a virtual organisation comprised of the heads of science and engineering funding agencies from around the world dedicated to promoting the sharing of best practice and promoting collaboration among the world's leading research funding agencies. As Executive Secretary he is the main point of contact for the GRC. Responsible for supporting the Governing Board, the hosts of Annual and Regional Meetings, as well as all Participants in all matters concerning the GRC.



He is also Associate Director for International Policy and Stakeholder Engagement at UK Research and Innovation (UKRI), the main funding organisation for research and innovation in the UK. He is responsible for overseeing, developing, and implementing a strategic and coherent approach to UKRI's international work in the UK and in international policy fora. During his career with UKRI and the UK research councils he has been responsible for strategic engagement with global partners and delivering various funds with the aim of promoting bilateral and multilateral international research collaboration. His early career was spent at UKRI's Economic and Social Research Council where he played a leading role in commissioning and establishing major social science longitudinal studies.

Prof. Katja Becker

Chair Governing Board

Global Research Council (GRC)

Katja Becker is the President of the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation). She studied medicine at Heidelberg University, where she also obtained her doctoral degree and habilitation. After a position at the Center for Infectious Diseases, Würzburg University, she accepted a chair in Biochemistry and Molecular Biology at Giessen University. Education and research led her to Africa, Australia, Switzerland, the UK and the US. Her research interests focus on cellular redox metabolism as a drug target in malaria parasites and cancer cells. Until 2019 she was the coordinator of the DFG Priority Programme 1710, which examines the thiol-based regulation of enzymes, and spokesperson of the LOEWE Center DRUID, which aims to develop novel drugs, vaccines and diagnostics against neglected tropical diseases. Katja Becker is active in multiple scientific advisory boards and served as vice president at Giessen University. From 2014 to 2019, she was vice president of the DFG. Her work has been honoured with the Ludolf Krehl Prize, the Carus Medal, the Rudolf Leuckart Medal and membership in the German National Academy of Sciences Leopoldina. Since 2021, Katja Becker is also Chair of the Governing Board of the Global Research Council (GRC).



Dr. Alejandro Adem

Alejandro Adem, President of the Natural Sciences and Engineering Research Council of Canada was appointed President of the Natural Sciences and Engineering Research Council of Canada (NSERC) in October 2019. As a highly accomplished researcher in the field of mathematics and a faculty member at the University of British Columbia, Professor Adem has significant leadership experience in the Canadian research and innovation ecosystem. Before joining NSERC, he was CEO and Scientific Director of Mitacs (2015–19) where he oversaw a significant expansion of its domestic and international internship programs, as well as launching the Mitacs Canadian Science Policy Fellowships, an Indigenous engagement initiative and an innovative entrepreneurship program. Prior to that, he served as Director (2008–2015) of the Pacific Institute for the Mathematical Sciences, a research and training consortium supporting the mathematical sciences across Western Canada. From 1989 to 2004 he was a faculty member at the University of Wisconsin- Madison (USA).



Dr. Kristin Danielson

Kristin Danielson, Executive Director of the Research Council of Norway, has a PhD from the University of Kentucky in horse nutrition and exercise physiology and had six years of business experience before starting at the Research Council in 2002. She was previously chair of the board of EUREKA and the Association of Innovation Agencies in Europe (Taftie) and has held several positions under the European Commission. She is currently a member of the board of directors of NordForsk and Fulbright in Norway, and of the Swedish University of Agricultural Sciences (SLU).



Dr. Munir M. Eldesouki

Is currently the President of King Abdulaziz City for Science and Technology (KACST), as well as the Advisor to the Chairman of the Research Development and Innovation Authority (RDIA) where he leads the foundation team for the RDIA's establishment. His 20+ years of experience spans the spheres of R&D, Innovation, ICT and Digitalization, where he played influential roles at various levels as seasoned researcher, inventor and leader setting national strategies, driving execution, and shaping Saudi Arabia's R&D, innovation, ICT & Digital ecosystems. Previously, Dr. Eldesouki held various C-level positions in the Saudi government. He served as the Assistant Minister of ICT, the Deputy Minister of Planning and Development at Ministry of Communications and Information Technology (MCIT), as well as the Senior Advisor and Chief of Staff to H.E. Ahmed Al-Khateeb assisting in the establishment of new government military entities and vision 2030 programs. Dr. Eldesouki had led several research institutes and programs with international collaborators from the United States, the United Kingdom, Switzerland, Canada, China, South Africa, Belarus, and others in private and public sectors. He was also in charge of several national institutes and centers focused on innovation, material science, and nanotechnology. Dr. Eldesouki holds a bachelor's degree in electrical engineering from KFUPM in Saudi Arabia and an M.Eng. degree in Engineering Entrepreneurship and Innovation, in addition to a M.A.Sc. and a PhD degree in Electrical & Computer Engineering from McMaster University in Canada.



He has also chaired or served on numerous national-level committees including the Executive Committee for the Digital Collaboration Organization, the Digital Economy Task Force under the Saudi G20 2020 Presidency and the 2021 Italian Presidency, and the Governing Board for Global Research Council. Besides, he has served as a member and then Chairman of the Board of Trustees of Custodian of the Two Holy Mosques Award which honors inventors and talents, Chairman for the Board of Trustees of Almari Award for Scientific Innovation, Chairman of the Board of Directors for the Center for the Fourth Industrial Revolution in KSA, which is affiliated with the WEF, as well as a member of the following boards: the Saudi Space Commission, the King Abdulaziz & his Companions Foundation for Giftedness & Creativity, the King Salman Science Oasis, the General Organization for Military Industries, the General Authority for Survey and Geospatial Information, and the Saudi Business Center, and the Saudi Center for Competitiveness. He received several scholarships and awards in recognition of his scientific and professional excellence, including the King Abdulaziz Order of Merit Excellence Medal of the First Class, the King's Prize for Inventors, the Natural Science and Engineering Research Council of Canada scholarship, the Xerox Center for Engineering Entrepreneurship grant, and the Canadian Microelectronics Corporation grant.

Prof. Vitória Langa de Jesus

PhD in Sociological Sciences from the University of Havana-Cuba
Executive Director of the National Research Fund (FNI), an entity under the supervision of the Minister who oversees Science and Technology.
Representative of the Ministry of Science, Technology and Higher Education on the Executive Board of the Partnership for Applied Sciences, Engineering and Technology-PASET, nominated on October 19, 2020.
Member of the UNESCO Intergovernmental Bioethics Commission to represent Mozambique, elected in 2019 for a period of 4 years.
Professor and member of the Board of Directors of Nachingwea University (UNA).



Conceived and directed the National Program for the Millennium Villages (implemented by the Government of Mozambique and the United Nations), also conceived and directed the Program for Scientific Expeditions, both Programs of the Ministry of Science, Technology and Higher Education.
University lecturer in several subjects with emphasis on Sociology and scientific research methodologies.

Author and co-author of several works such as:

1. Article "Mozambican women and nation. In women's knowledges: recognized and less recognized". Editorial National University of Colombia.
2. Book: co-author of the Book: Water Supply in rural areas: TRIPLE S. Assessment of progress towards the provision of sustainable services. Mozambique.
3. Article "Mozambique Reconstruct identities. Dialogue between two academics from Sur". Political Science Magazine. Africa, Latin America and the Caribbean 1 Public policy debates Political analysis. National University of Colombia. Faculty of law, Political and Social Sciences.
4. Book "Equidad y Participación Social de la Mujer Mozambicana" ed. Tricontinental, la Habana.
5. Article "Muti, Fuente de la Identidad Mozambicana". Tricontinental Magazine # 147, la Habana.
6. Article "Globalization, Poverty and Gender". Info-ISPU Magazine. University Magazine. # 5 of 2003. Ed. By ISPU-Maputo, Mozambique.

Dr. Jemimah Onsare

Jemimah G. Onsare, Chief Executive Officer NRF has experience in resource mobilization and management of Research Grants and has participated in various programmes within the ST&I sector both at National and International level. Dr. Onsare also has experience in Microbiological Research (Antimicrobials), grants proposal writing and has published several research articles in international Journals of repute. She holds a PhD (Applied Microbiology – Antimicrobials) from Guru Nanak Dev University, Amritsar.



Virtual Session 1: “Best Practices and Cases Studies of Science and Technology Workforce & Research Ethics, Integrity, and Culture in the Context of Rapid-Results Research”

Presenters

Dr. Wencong Li

Wencong Li is the Head of the Division of Asia, Africa, and International Organizations of National Natural Science Foundation of China (NSFC). She worked at the NSFC Division of European Affairs before 2021. She received her PhD in management sciences at the University of Chinese Academy of Sciences, and MA and BA degrees from the Beijing Foreign Studies University.



Dr. Timothy Marango

Timothy Marango is a teacher, researcher, consultant and manager. Currently a Research Prioritization, Control and Coordination Manager with the Research Council of Zimbabwe. Dr Marango is currently the Acting Executive Director of the Research Council of Zimbabwe. His research interests are rural and urban development, human factor development, environment, climate change and agriculture, indigenous knowledge systems, social capital, social protection, gender and governance. Timothy has more than 20 years of experience in rural development programming, teaching and research in SADC countries. He has researched and published extensively on areas of his research interests in referred academic journals. As a Research Prioritization, Control and Coordination Manager with RCZ, he is responsible for research programming, coordination of research, monitoring and evaluation of research projects. Timothy works closely with national research institutes, in identifying demand driven research for the country. He holds a Diploma in Education, Bachelor of Education Studies degree, Bachelor of Science Honours degree in Sociology, Master's Degree in Rural Development and a PhD in Rural Development.



Dr. Gráinne Walshe

Dr Gráinne Walshe is Assistant Director - Partnerships and Impact at the Irish Research Council. She previously was Director of the Science Learning Centre at the University of Limerick, and Project Lead for the SOPHia Project, a project that aims to encourage more students, especially female students, to take up physics as a school subject. She has a background in science education and gender balance in STEM.



Dr. Rachel Clarke

Dr Rachel Clarke is programme manager in the Irish Research Council (IRC) where she manages the postdoctoral research programme DOROTHY (DevelOp interdisciplinaRy apprOaches to healTH crisis collaboratively), co-funded by the European Union's Horizon 2020 research and innovation programme under Marie Skłodowska-Curie Actions (MSCA) along with Irish funding agencies, the IRC, the Health Research Board (HRB) and the Irish Environmental protection Agency (EPA). Rachel is a member of the National Research Integrity Forum (NRIF) that is tasked with facilitating and coordinating research integrity in Ireland.



Ms. Marcela Oñate

Marcela Oñate is sociologist and Master of Applied Social Sciences from the University of La Frontera. Since 2014, she is part of Studies Unit at the Department of Studies and Strategic Management of the National Agency for Research and Development of Chile (ANID). In addition, since 2017 she is responsible for the Institutional Plan on Gender. Working at ANID, she actively participated in the Local Committee of SAGA UNESCO Project. She also acts as technical advisor of several studies in gender and STEM in Chile. She represents ANID in several workshops and forums in Chile and abroad related with gender issue.



Dr. Prue Williams

Prue Williams is General Manager, Science System Investment and Performance for the Ministry of Business, Innovation and Employment (MBIE). Her branch of MBIE makes, manages and assesses scientific investments to meet New Zealand's economic, social and environmental goals. Prue has a PhD in soil science and a research career in understanding sustainable land management issues in pastoral and cropping systems. She was General Manager Research for Crop and Food Research, one of the New Zealand Crown Research Institutes, and spent four years as Chief Science Adviser to the Foundation of Research Science & Technology and the Ministry of Science and Innovation. Prue has been involved in collaborative international research programmes and has been a regular reviewer of international proposals and programmes. She currently sits on the Governing Board for the Global Research Council. In 2021, Prue was awarded the New Zealand Public Service Medal in recognition of her career in the New Zealand science system.



Ms. Sawa KOYAMA

Sawa Koyama was appointed senior coordinator in the International Policy Planning Department, Headquarter for International Affairs, Japan Society for the Promotion of Science (JSPS) on 1 April 2022. Prior to that, she served as head of administrative affairs in the Center for World Premier International Research Center Initiative (WPI Program Center), JSPS, from July 2020 to March 2022, and head of administrative affairs in the Research Center for Science Systems, JSPS, from April 2019 to June 2020. In addition to other positions held within JSPS Headquarters since 1992, she also served in other organizations and offices such as head of the International Exchange Division at Hokkaido University, deputy director of the JSPS Bonn-Office (Germany), and section chief in the International Science and Technology Affairs Division, Science and Technology Policy Bureau, MEXT.



Virtual Session 2: “Break-out Discussion Group: Research Ethics, Integrity, and Culture in the Context of Rapid-Results Research”

Moderator

Ms. Jennifer Carroll

Jennifer Carroll is a program analyst at the National Science Foundation and the agency’s deputy principal for the U.S. Global Change Research Program. She previously served as a Senior Adviser to the Office of the Special Envoy for Climate Change at the U.S. Department of State during the COP21 climate change negotiations. Jennifer is a Presidential Management Fellow alumna whose research focuses on the economic impacts of climate change on the forestry and agricultural sectors.

