

## Webinar: Promoting Ethics and Integrity in Scientific Research and Practice



The scientific community has in recent years witnessed numerous breakthroughs, from advancements in gene editing, artificial intelligence, space exploration, synthetic biology and RNA medicine to nuclear fusion. Ethics and integrity are paramount in this rapidly evolving landscape. For example, while rapid advancements in technology have propelled the research enterprise forward, they have outpaced developments in research ethics, sometimes resulting in ambiguities about what is deemed acceptable and what is not. Meanwhile, the "publish or perish" culture can sometimes push researchers to cut corners, leading to compromised ethics.

The webinar seeks to underline the significance of ethical considerations in the scientific research and practice and foster a culture that champions transparency, honesty, and responsible use of science. Discussions will focus on experiences, contributions, and challenges within the scientific community.

The webinar builds on the InterAcademy Partnership's (IAP) past work in research ethics and integrity such as the [\*Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise\*](#) (2016), and others listed below.

### Registration Details

- **Topic:** Promoting Ethics and Integrity in Scientific Research and Practice.
- **When:** Monday, 23 October 2023.
- **Time:** 10:00 AM – 11:30 AM UTC ([time converter](#)).
- **Registration here:**  
<https://nasem.zoom.us/meeting/register/tJYkdeCurz4sHtAjDuT5f3KSn8mmhtyk54Hd>

## Webinar Agenda

*All times UTC*

- 10:00 – 10:05 AM**      **Welcome and Introduction**  
**Prof. Frances Separovic**, Co-Chair, IAP Capacity Building Committee & Foreign Secretary, Australian Academy of Sciences
- 10:05 – 10:10 AM**      **Topic and Speaker Introduction**  
**Moderator: Dr Siobhán O’Sullivan**, Executive Director, the Royal Irish Academy
- 10:10 – 11:00 AM**      **Panel Discussion: Ethics and Integrity in Scientific Research and Practice**  
Up to 10 minutes each for personal insights, national contexts/experiences and interventions.
- **Presentation 1: Research ethics policy at the global level: Lessons from the Intergovernmental and International Bioethics Committee of UNESCO**  
**Dr. Yuthavong Yongyuth**, Senior advisor to the president, National Science and Technology Development Agency, Thailand; Former President, Thai Academy of Science and Technology.
  - **Presentation 2: The South African experience**  
**Prof. Stephanie Burton**, Vice- President, Academy of Science of South Africa
  - **Presentation 3: Fostering Research Integrity in Malaysia: Confluence of top-down and bottom-up approach**  
**Dr. Chau De Ming**, Chair of the National Committee on Research Integrity for the Malaysian Code of Responsible Conduct in Research, Academy of Sciences Malaysia
  - **Presentation 4: Ethics in science and engineering: The Algerian experience**  
**Prof. Khedidja Allia**, Professor and Research Director at the University of Sciences and Technology; founding member of the Algerian Academy of Science and Technology
  - **Presentation 5: Roadmap to improve ethics in science and curb predatory publishing (RESCUE) – IAP funded project involving India, Bangladesh, Benin and Czech Republic**  
**Dr. Kutubuddin Molla**, Scientist, ICAR-National Rice Research Institute, Cuttack; and Indian National Young Academy of Science
- 11:00 – 11:25 AM**      **Moderated Q&A Session**  
**Moderator: Dr Siobhán O’Sullivan**, Executive Director, the Royal Irish Academy
- 11:25 - 11:30 AM**      **Closing remarks and Next Steps**  
**Dr. Ourania (Rania) Kostis**

**Executive Director**, InterAcademy Partnership & Director, Board on International Scientific Organizations of the U.S. National Academies of Science, Engineering and Medicine

**Moses Ogutu**, Associate Program Officer, IAP and Policy and Global Affairs Division, U.S. National Academies of Science, Engineering and Medicine

## Speakers



Dr. [Yuthavong Yongyuth](#) is senior advisor to the president, National Science and Technology Development Agency (NSTDA) of Thailand; Senior Research Fellow, National Centre for Genetic Engineering and Biotechnology, NSTD; Former Minister, Ministry of Science and Technology (2006-2008); Former Deputy Prime Minister (2014-2015); Former Chairperson, Intergovernmental Bioethics Committee of UNESCO (IGBC); Former President, **Thai Academy of Science and Technology** (1999-2003). He served as vice-President for East and Southeast Asia, 2013-15 at the World Academy of Sciences (TWAS).



[Frances Separovic](#), Foreign Secretary, **Australian Academy of Science**. Distinguished Professor Emeritus Frances Separovic holds an honorary appointment in the School of Chemistry and is deputy director of the Bio21 Institute at the University of Melbourne. She is past president of the Biophysical Society (USA) and president-elect of Division I (Physical and Biophysical Chemistry) of the International Union of Pure and Applied Chemistry (IUPAC), and previously served on the Council of the International Union of Pure and Applied Biophysics (IUPAB). Professor Separovic was elected a Fellow of the Australian Academy of Science in 2012 for her ground-breaking research in biophysical chemistry and the use of nuclear magnetic resonance to study cell membranes. Frances is a co-chair of the Capacity Building Committee of the InterAcademy Partnership (IAP).



Professor [Stephanie Burton](#), Vice- President, **Academy of Science of South Africa**. Professor Stephanie Burton is Professor in Biochemistry, in the Faculty of Natural and Agricultural Sciences, and a professor at Future Africa at the University of Pretoria (UP). She is the former Vice-Principal for Research and Postgraduate Education at UP, having served in that role from 2011 to 2020. Professor Burton is the President and a Fellow of the Royal Society of South Africa (RSSA), Vice-President of the Academy of Science of South Africa (ASSAf), a Research Fellow for Universities South Africa (USAf), a member of the Governing Council of Future Earth (an international network focusing on sustainability sciences) and a member of the Board of the International Academy Partnership (IAP).



Dr [Siobhán O'Sullivan](#) is the Executive Director of the **Royal Irish Academy** where she is responsible for overseeing governance and the strategic agenda of the organisation. She is an Honorary Associate Professor in the Royal College of Surgeons where she teaches Healthcare Ethics and Law to postgraduate students. Dr O'Sullivan was Chief Bioethics Officer in the Department of Health (DoH) from 2011-2022 and led the national ethics response across the health system to COVID-19.



Dr. [Chau De Ming](#) is the co-founder of the Young Scientists Network - **Academy of Sciences Malaysia** (YSN-ASM) Responsible Conduct of Research (RCR) Programme and he has been chairing the YSN-ASM Science Integrity Working Group since 2017. Dr. Chau is the co-editor of the Malaysian Educational Module on RCR and a contributor of the Malaysian Code of Responsible Conduct in Research. Currently, Dr. Chau is a committee member of the National Committee on Research Integrity (Malaysia) and the Co-Chair of the Association of Southeast Nations (ASEAN) RCR Project.



Dr. [Khedidja Allia](#) is a chemical engineering Professor and Research Director at the University of Sciences and Technology (USTHB), Algiers, where she is involved in teaching, research, and supervision of students at different levels (Ph.D, Masters). She was previously affiliative with the National Polytechnic School, Algiers (ENP). She holds an engineer diploma, post-graduate experience in Fluid Mechanics from the University of Algiers and a joint Chemical Engineering Doctorate in Science from National Polytechnic School, Algiers (ENP) and Thames Polytechnic-School– London-Great Britain. She is a founding member of the **Algerian Academy of Science and Technology** and a Fellow of the Pan-African Scientific Research Council.



Dr. [Kutubuddin Molla](#), Scientist, ICAR-National Rice Research Institute, Cuttack; Former Fulbright Postdoctoral Scholar at Pennsylvania State University, PA, USA. Member of the **Indian National Young Academy of Science**.

### Select IAP Policy Reports and Statements on Research Ethics and Integrity

1. [The Future of Research Evaluation: A Synthesis of Current Debates and Developments](#) (2023)
2. [Combatting Predatory Academic Journals and Conferences](#) (2022)
3. [Biotechnology! How can we ethically create a sustainable future using biotechnology?](#) (2022)
4. [NASAC Statements on Gene-Editing Technology](#) (2022)
5. [Tianjin Biosecurity Guidelines for Codes of Conduct for Scientists](#) (2021)
6. [Statement on How to prevent misuse of bioscience research](#) (2022)
7. [Doing Global Science: A Guide to Responsible Conduct in the Global Research Enterprise](#) (2016)
8. [Responsible Conduct in the Global Research Enterprise](#) (2012)

### **About the InterAcademy Partnership (IAP)**

The InterAcademy Partnership is a network of 150 national, regional, and global member academies that work together to support the vital role of science in seeking evidence-based solutions to the world's most challenging problems. IAP's secretariat offices are hosted by the U.S. National Academies of Science in Washington, DC, and the World Academy of Sciences, in Trieste, Italy. For more information about IAP see [www.interacademies.org](http://www.interacademies.org) and follow IAP on [Twitter](#), [LinkedIn](#) and [YouTube](#).

### **About the Royal Irish Academy (RIA)**

The Royal Irish Academy was founded in May 1785 and incorporated by Royal charter of George III in January 1786. The Academy was established to promote scholarly discussion and the exchange of ideas and learning on scholarly matters in the sciences, polite literature and antiquities. Today, the Academy's mission has evolved and widened considerably. It aspires to be both a national Academy advancing the interests of scholars, scholarship and research on the island of Ireland, and a learned society promoting and supporting excellence in research and scholarship in the sciences and the humanities. As a national academy it is also part of an international network of academies representing scholars and researchers all over the world. For more information visit <https://www.ria.ie/about-royal-irish-academy>.