

The National Academies of **SCIENCES • ENGINEERING • MEDICINE**

2021 Nobel Prize Summit: Our Planet, Our Future The SDGs and International Research Collaboration

A National Academies Session in collaboration with Arizona State University

Wednesday, April 28, 2021
1:00 - 2:00 pm EDT
(all times are U.S. Eastern Time)

Overview: The pandemic has made the achievement of the United Nations Sustainable Development Goals (SDGs) more challenging, with increasing concerns about supply chain disruption, environmental degradation, and persistent inequalities. As the international community slowly adapts to a new normal, the pace of global policy discussions should accelerate to deliver much needed change. This special session, organized as part of [*Nobel Prize Summit: Our Planet, Our Future*](#), will highlight the importance of international research collaboration for achieving the SDGs with a timeline of 2030. Presentations and facilitated discussions will focus on the role of science, technology, and innovation in support of more effective policies and actions towards sustainability; advancing awareness of the SDGs with a particular focus on the youth, civil society, and the new U.S. administration; and research agendas related to sustainability and the SDGs to inform post-2030 processes.

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| 1:00 pm | Welcome Remarks
Peter Schlosser , Vice President and Vice Provost, Julie Ann Wrigley Global Futures Laboratory, Arizona State University |
| 1:05 pm | Perspectives: Supporting Global Collaboration for Sustainability and the SDGs
Moderator: Andrew Steer , President and Chief Executive Officer, Bezos Earth Fund <ul style="list-style-type: none">• Daya Reddy, President, International Science Council and South African Research Chair in Computational Mechanics, University of Cape Town• Tateo Arimoto, Principal Fellow, Japan Science and Technology Agency and Visiting Professor and Deputy Director, Science, Technology and Innovation Policy Research Center, National Graduate Institute for Policy Studies (GRIPS) |
| 1:45 pm | Special Dialogue
Moderator: Amanda Ellis , Director, Global Partnerships, Wrigley Global Futures Laboratory, Arizona State University <ul style="list-style-type: none">• Ada Yonath (NAS), Director, The Helen and Milton A. Kimmelman Centre for Biomolecular Structure and Assembly, Weizmann Institute of Science (Nobel Prize in Chemistry, 2009) |
| 2:00 pm | Adjourn |

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Biographies of Speakers and Moderators

PETER SCHLOSSER is the Vice President and Vice Provost for Global Futures and the University Global Futures Professor at Arizona State University. He leads the Julie Ann Wrigley Global Futures Laboratory and is the Director of the Global Institute of Sustainability and Innovation. He holds joint appointments in the School of Sustainability in the College of Global Futures, the School of Earth and Space Exploration in the College of Liberal Arts and Sciences, and the School of Sustainable Engineering and the Built Environment in the Ira A. Fulton Schools of Engineering. Dr. Schlosser's research focuses on the hydrosphere, primarily the circulation of water in the oceans and groundwater including studies of problems caused by human impact. He is Co-Chair of the Earth League, Chair of the Steering Group of the International Study of Arctic Change, and member of the Boards of the Sustaining Arctic Observing Network and The Sustainability Consortium. He is a member of the German National Academy of Science, and Fellow of the American Geophysical Union, the American Association for the Advancement of Science, and the Explorers Club.

Perspectives: Supporting Global Collaboration for Sustainability and the SDGs

ANDREW STEER is the President and Chief Executive Officer (CEO) of the Bezos Earth Fund, which a \$10 billion fund which will address climate, nature and environmental justice. Prior to the Earth Fund, Dr. Steer served as president and CEO of the World Resources Institute (WRI) for almost nine years. During Dr. Steer's tenure, WRI greatly increased its reach, influence and impact, establishing new international offices and launching more than two dozen high-impact initiatives. Dr. Steer joined WRI from the World Bank, where he served as Special Envoy for Climate Change from 2010-2012. From 2007 to 2010, he served as Director General at the UK Department of International Development. This followed 10 years in East Asia, where he was Head of the World Bank in Vietnam and Indonesia. Dr. Steer is a Global Agenda Trustee for the World Economic Forum, member of the China Council for International Cooperation on Environment and Development (CCICED), and co-chair of the Green Belt and Road Initiative.

DAYA REDDY is President of the International Science Council and holds the South African Research Chair in Computational Mechanics at the University of Cape Town, South Africa. His research lies in the domain of mathematical modelling, analysis and simulation in mechanics. He has made significant contributions to theories of complex material behavior, and to the development of stable and convergent methods of computational approximation. Dr. Reddy recently completed a six-year term as co-chair of the policy branch of the InterAcademy Partnership. He has served as President of the Academy of Science of South Africa, and is an elected Fellow of the African Academy of Sciences and of The World Academy of Sciences (TWAS). He is a recipient of the Award for Research Distinction of the South African Mathematical Society, the Order of Mapungubwe from the President of South Africa, and of the Georg Forster Research Award from the Alexander von Humboldt Foundation of Germany.

TATEO ARIMOTO is a Visiting Professor and Deputy Director, Science, Technology and Innovation Policy Research Center at the National Graduate Institute for Policy Studies (GRIPS) and also Principal Fellow at Japan Science and Technology Agency (JST) and Vice Director General, International Institute for Advanced Studies. He served as Director General of Science & Technology Policy Bureau of the Ministry of Education. He has played an active role in public policy making in science, technology and innovation with multidisciplinary approach. He has been co-chair of the OECD study projects on “Scientific advice” and “Transdisciplinary research.” He is a member of the program committee of International Network for Government Science Advice (INGSA), United Nations STI for SDGs Forum, and the committee of Science Diplomacy at the Ministry of Foreign Affairs of Japan.

Special Dialogue

AMBASSADOR AMANDA ELLIS leads Global Partnerships for the ASU Julie Ann Wrigley Global Futures Laboratory and serves as co-chair of the WE Empower UN SDG Challenge and the ASU SDGs and Beyond Task Force. Previously New Zealand’s Head of Mission and Permanent Representative to the United Nations in Geneva and Prime Minister’s Special Envoy to Francophone Africa (2013-16), Ambassador Ellis played a key role in NZ’s successful UN Security Council bid. Prior to that as Deputy Secretary International Development in the NZ Foreign Ministry she was the first woman to head the New Zealand Aid Programme, managing a budget of over \$0.6 billion. A Fellow of the World Academy of Art and Science, Ellis is the author of two best-selling Random House business books, lead author of five research titles in the World Bank Directions in Development series and co-author of the 2020 Gender Equality and Governance Index.

ADA YONATH (NAS) is focusing on protein biosynthesis, on antibiotics hampering it, on human diseases associated with ribosomal mutations and on origin of life. She is Directing Kimmelman Center for Biomolecular Structures at Weizmann Institute (WIS), where she got her Ph.D. and is currently a Professor. She postdoced in Carnegie Mellon, MIT and U. Chicago. In the seventies, she established at WIS the first structural-biology laboratory in Israel, which was the only one in the country for almost a decade. During 1986-2004 she headed Max-Planck-Research-Unit-for Ribosome-Structure in Hamburg, in parallel to her WIS activities. Among others, she is a member of US-National Academy; British Royal Society; Israel Academy; German Leopoldina; Pontificia Accademia-delle-Scienze (Vatican); Japanese, Korean and Italian Academies, and holds honorary doctorates from over 45 Universities worldwide. Her awards include Louisa-Gross-Horwitz, Wolf, Harvey & Israel prizes; Linus-Pauling Gold Medal; UNESCO/L’Oreal Award; Albert-Einstein Award for Excellence; and 2009 Chemistry Nobel Prize.