



Science Diplomacy 2018

Friday, September 14

AAAS Headquarters
1200 New York Avenue NW
Washington DC, 20005

Agenda as of September 12

OPENING PLENARY	
8:30	Registration
9:00	Welcome Rush Holt CEO, AAAS Opening Address Peggy Hamburg President of AAAS, Foreign Secretary of the U.S. National Academy of Medicine <i>In conversation with</i> Tom Wang Chief International Officer, AAAS and Director of the Center for Science Diplomacy
9:20	Strengthening Ties, Strengthening Global Policy Making: Mechanisms in the Americas <i>Organizer: Cara Marshall, Office of the Chief Science Advisor, Canada</i> <p>Tackling the world's most pressing concerns increasingly requires both strong national approaches and international collaboration. A critical element for success will be strengthened and results-driven science diplomacy requiring strong interaction between scientists and the foreign policy community. More and more, governments are embracing science advisory mechanisms and other means to address the importance of science in making decisions of policy and diplomacy. This panel will bring together scientific experts and policy practitioners from countries in the region that have implemented, or are beginning to implement, science diplomacy strategies and mechanisms. It will focus on the extent to which nations' domestic agendas link to science diplomacy, closing gaps and addressing obstacles to collaboration.</p>



	<ul style="list-style-type: none"> • Mona Nemer Chief Science Advisor, Government of Canada • Rita Colwell Distinguished University Professor, University of Maryland at College Park and at Johns Hopkins University Bloomberg School of Public Health • Aisha Jones Executive Director for the Biotech R&D Institute (Jamaica) • Bunmi Akinnusotu Chief of Staff, Young Professionals in Foreign Policy (YFPF) (moderator)
10:30	Coffee break
MORNING PARALLEL SESSIONS	
11:00	<p>Antimicrobial Resistance: Cooperating to Combat a Tragedy of the Global Commons <i>Organizer: Brad Wible, Senior Editor, Science magazine</i></p> <p>With roots in biology and behavior, technology and incentives, supply and demand, spanning sectors of societies and economies in every corner of the globe, antimicrobial resistance has been widely recognized as a complex global problem of managing a shared common resource. Reflecting the urgency of the problem, and the critical need for international cooperation to devise solutions, global leaders met at the UN General Assembly in September 2016 to express commitment to combatting antimicrobial resistance, only the fourth time that a health topic had been discussed at the General Assembly High Level meeting when heads of state are present. On the eve of the upcoming 2018 UN General Assembly, beginning 18 September, at which progress and coordination on antimicrobial resistance will again feature prominently on the agenda, this panel will discuss ways in which science underpins our understanding of the problem, motivates international cooperation, and informs coordination and action toward solutions.</p> <ul style="list-style-type: none"> • Ambassador Juan José Gómez-Camacho Permanent Representative of Mexico to the United Nations • Ramanan Laxminarayan Founder and Director, Center for Disease Dynamics, Economics & Policy, senior research scholar and lecturer, Princeton Environmental Institute at Princeton University, Member of U.S. Presidential Advisory Council on Combating Antimicrobial Resistance • Jessica Petrillo Senior Advisor for Health Security, Office of International Health and Biodefense, U.S. Department of State



Think Locally to Impact Globally: Science Diplomacy at the State Level

Organizer: Ivy Estabrooke, Executive Director for Corporate Executive Programs at PolarityTE

While once predominantly the purview of the Federal Government, state and provincial governments have increased both their funding of scientific research and their international engagement to strengthen and expand their trade and innovation advantage in a globalized environment. This panel will explore the value gained by building new international relationships between institutions and individuals on a platform of science and technology and will look at how state agencies, national governments, non-profit organizations and businesses can benefit from prioritizing international collaboration. Furthermore, the panel will address how a model from the state of Utah (USTAR) can be adapted to provide a framework for future diplomatic exchanges and will draw on best practices for global technology engagement through the use of state level trade missions, state-state partnerships and the advancement of global diplomacy and engagement.

- **June Chen** | Managing Partner, Mountain Pacific Venture Fund
- **Juan Manuel Romero** | Vice President of Innovation and Technology Transfer, UNAM Mexico City
- **Dan Wee** | CEO & Founder, T3S

A New Horizon in EU Science Diplomacy

Organizer: Casimiro Vizzini, UNESCO

The European Union (EU) is among the political entities most explicitly driving science-based approaches to tackling global challenges. However, the Union is also made up of Member States with their own foreign policy priorities, diplomatic practices, scientific relations and science diplomacy approaches. Reflecting the current worldwide interest in science diplomacy, three research projects are funded under the EU's Horizon 2020 framework: EL-CSID, InsSciDE, and S4D4C. These examine the interplay of national and EU-level practices and institutions, providing insights not only about European science diplomacy, but also about how to govern science diplomacy at a global scale, namely by striking a balance between national and supranational interests. The session includes presentations by the projects' lead investigators.

- **Alexander Degelsegger-Márquez** | Head of Department, Centre for Social Innovation Universität Wien in Vienna
- **Pascal Griset** | Professor at Sorbonne Université, Directeur of the Institute of Communication Sciences in Paris
- **Luk Van Langenhove** | Director at the Institute for European Studies, Vrije



	Universiteit Brussels <ul style="list-style-type: none"> • Marga Gual Soler Senior Project Director, Center for Science Diplomacy, AAAS (moderator)
LUNCH	
12:15	Video Screenings <ul style="list-style-type: none"> • <i>Science in Exile</i>, TWAS • <i>Science Diplomacy – An Introduction</i>, AAAS
AFTERNOON PLENARY	
13:15	<p>The Science Shift: Perspectives on the Role of Diplomacy in a Changing Global Science Ecosystem <i>Organizer: Dominique Carter, AAAS Science & Technology Policy Fellow, National Science Foundation</i></p> <p>The global landscape of science and engineering (S&E) research has undergone dramatic changes since the turn of the century. As S&E research becomes increasingly international and interdependent, we are amid a major paradigm shift from a primarily Western-dominated scientific economy to a multipolar science ecosystem. While increased global S&E capacity offers great opportunities for scientific advancement and cross-border scientific cooperation, it presents definite challenges to the U.S. science economy. Reflecting on the impacts of globalization to S&E research in the U.S. and abroad, this panel will discuss opportunities for the role of diplomacy in fostering a globally inclusive science ecosystem. The session will also discuss key drivers and approaches for how countries utilize, or should utilize, science diplomacy to forge better multilateral cooperative relationships and build successful diplomatic ties.</p> <ul style="list-style-type: none"> • Rebecca Spyke Keiser Director, Office of International Science and Engineering, U.S. National Science Foundation • Romain Murenzi Executive Director, The World Academy of Sciences (TWAS) • Andrew Price Head of UK Science and Innovation Network, Americas, British Embassy in Washington DC • Rachel Parker Senior Director Research, Canadian Institute for Advanced Research • Catharine Young Senior Director of Science Policy, Biden Cancer Initiative
14:30	Coffee break



AFTERNOON PARALLEL SESSIONS

Building a Trinational Initiative to Save Marine Protected Areas in the Gulf of Mexico through Science Diplomacy

Organizer: Fernando Bretos, Phillip and Patricia Frost Museum of Science

The biological and geographic links between the United States and Cuba are stark, particularly in a marine context where ocean currents pay no heed to international maritime borders or embargoes. Yet the U.S. economic embargo on Cuba has stifled academic exchange for almost six decades, putting the U.S. at a disadvantage given the entire U.S. southern coast and eastern seaboard depend on marine habitats to the south for survival and stock replenishment. The panel will discuss the recent creation of a trinational network of marine protected areas in the Gulf of Mexico (GOM), an independent gathering of marine scientists that in 2013 paved the way for Cuban and U.S. representatives to meet under the banner of science diplomacy.

- **Mark J. Spalding** | President, The Ocean Foundation
- **William Kiene** | Independent Consultant
- **Alejandra Navarrete** | International Legal Advisor, Mexico, The Ocean Foundation

15:00

Mega-Science = Mega Diplomacy

Organizer: Cole Donovan, Foreign Affairs Officer, Office of Science and Technology Cooperation, U.S. Department of State

As science becomes an increasing global endeavor, international cooperation becomes even more essential. This is especially the case in some of the “mega-science” experiments, such as those at the European Organization for Nuclear Research (known as CERN) in Switzerland/France, the Deep Underground Neutrino Experiment at the Long-Baseline Neutrino Facility (LBNF/DUNE) in Illinois/South Dakota, and the Laser Interferometer Gravitational-Wave Observatory (LIGO) in Washington/Louisiana. Each of the experiments has the potential to change the way we understand our universe and lead to unexpected applications of science that could transform the world. However, their success requires the coordinated work of multiple partners from almost every continent bringing their unique experience and expertise to ensure success. This session will discuss the science being accomplished at each of these experiments and the role of international partnerships and national governments in making such large-scale international cooperation possible.

- **Conny Arvis** | Director, Office of Science and Technology Cooperation, U.S. Department of State



	<ul style="list-style-type: none"> • Barry Barish Emeritus Professor of Physics, California Institute of Technology, LIGO • Nigel Lockyer Director, Fermi National Accelerator Laboratory, LBNF/DUNE • Charlotte Warakaulle Director for International Relations, CERN • Saul Gonzalez Martirena Senior Advisor, Directorate for Mathematical & Physical Sciences, National Science Foundation
	<p>Beyond Borders: Migration, Health, and Diplomacy <i>Organizer: Kanya Long, World Bank Group/AAAS Science and Technology Policy Fellow (alumna)</i></p> <p>The migratory patterns of people and livestock are rapidly changing in response to various external factors, including conflicts and climate change, and understanding the impacts of these changes on health and their implications for regions and countries is a pressing challenge. This session will allow for a broad conversation across issues of health in refugee populations, livestock movement and pathogen transmission, and modeling population changes and disease dynamics, with an understanding of the context of the challenges ahead, the scientific basis for interventions, and the diplomacy needed to arrive at solutions. The expert speakers working at the nexus between climate change, migration, and health will provide experience from their research and practice that can inform policy or plans for diplomatic engagement, and emphasize the need to prepare for anticipated changes in disease epidemiology.</p> <ul style="list-style-type: none"> • Kanta Kumari Rigaud Lead Environmental Specialist, World Bank Group • John McDermott Director, CGIAR Research Program on Agriculture and Health, International Food Policy Research Institute • Paul Spiegel Director of the Center for Humanitarian Health, Johns Hopkins Bloomberg School of Public Health • Victor Alegana Research Fellow for Geography and Environmental Science, University of Southampton
<p>CLOSING PLENARY</p>	
<p>16:15</p>	<p>Peace, Security, and Power: The Role of Science, Technology, and Innovation in Today's World</p> <p>The balance between the use of hard and soft powers in international relations has fluctuated in the United States and elsewhere around the world. Science, technology, and innovation (STI) are critical tools for advancing the peace and security of nations and the global community as sources of both types of powers. Globalization and the digitalization are fundamentally affecting the ways the United States and other countries strengthen their soft power toolbox. This session will</p>



	<p>feature remarks by the speakers followed by a discussion focused on how developments in STI may be changing the nature of hard and soft powers and how these shifts will affect peace, security, and national security in the future.</p> <ul style="list-style-type: none"> • Jessica T. Mathews Distinguished Fellow at the Carnegie Endowment for International Peace • Melissa L. Flagg Head of Army Research Laboratory Northeast • Mahlet N. Mesfin Deputy Director, Center for Science Diplomacy, AAAS (moderator)
17:15	<p>Closing remarks</p> <p>Rush Holt CEO, AAAS</p> <p>Alan Leshner CEO Emeritus, AAAS</p>
17:30	<p>Reception and Poster Session</p> <p><u>Posters</u></p> <p><i>Building International Capacity for Ocean Acidification Research from Pier2Peer</i> Meredith Kurz</p> <p><i>National Styles in Science, Diplomacy, and Science Diplomacy (A Case Study of the UNSC the P5 countries)</i> Olga Krasnyak</p> <p><i>A network to help to preserve the intellectual heritage of countries under conflict and repression</i> Jessica Tome Garcia</p> <p><i>Science Diplomacy Through Cities: Applying NASA Earth Observations at the Urban Scale</i> Margaret Hurwitz</p> <p><i>Disaster-related Science Diplomacy: Bridging Boundaries to Advance Disaster Resilience</i> Yekaterina Y. Kontar</p> <p><i>A Unique NASA-Earth University Costa Rica science diplomacy project</i> Kamlesh Lulla</p> <p><i>Science Diplomacy Awareness Project (SDAP)</i> Ashraf Abdelghany</p>



	<p><i>From Science Denial to Foreign Disinformation - How Science Communication Research informs anti-propaganda efforts</i> Adam Shapiro</p>
--	--