Tufts-SEI Nexus Symposium

April 11, 2017
Tufts University
Medford, MA

Tufts

tiE
Tufts Institute of the ENVIRONMENT

SEI STOCKHOLM ENVIRONMENT INSTITUTE

WELCOME

We are delighted to welcome you to the 2017 Nexus Symposium between Tufts University and the Stockholm Environment Institute (SEI).

This symposium commemorates the tenth year anniversary of the partnership between Tufts University and SEI's U.S. Center. This event will include speakers, researchers, panelists, and students from both organizations that have dedicated their work and research to the nexus of food, water, energy, climate, and health.

The goal of this symposium is to create space for and inspire conversation within the nexus in order to pave the way for further advancement within the fields of environment and sustainability. The conversation today will feature speakers and panelists from across disciplines and fields and create a discussion that is interdisciplinary and rich in its varying and complementary perspectives. We hope that the Symposium will energize attendees to pursue further explorations into new and creative solutions that inspire growth within the nexus.

We look forward to an exciting and enriching event.

Thank you for joining us!

Sincerely,
Tufts Institute of the Environment and
The Stockholm Environment Institute

Tufts-SEI Partnership History

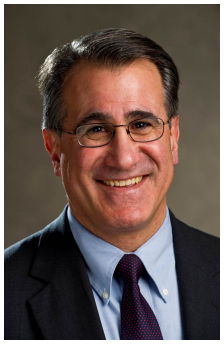
For ten years, Tufts University and the Stockholm Environment Institute (SEI)-U.S. have been working together on issues relating to climate mitigation and equity, policy and regulations, water resource management, and many other topics. Together, Tufts University and SEI-U.S. have prioritized enduring issues such as climate change and energy challenges, as well as have addressed emerging issues relating to water and developmental economics. Today's Nexus Symposium reflects the joint commitment of the two organizations to research and progress towards the various issues of sustainability and environment regulation, and celebrates the inclusion of several topics, fields, and approaches relating to the nexus.

The development of this partnership began in 2005 when SEI decided to associate each of its international centers with an area university in order to foster a mutual relationship dedicated to research and progress in sustainability. The SEI-U.S. Center saw Tufts University as the clear choice for partnership given the Tufts vision and commitment to being "an innovative university of creative scholars across a broad range of schools who have a profound impact on one another and the world." In 2006, SEI-U.S. became the first Center to affiliate with a university, and today we celebrate the tenth anniversary of the two organizations' partnership.

The benefits of the Tufts–SEI-U.S. partnership have been felt on all levels of the two associations. Members of the SEI-U.S. Center have held faculty research positions at Tufts, and collaborated with the Tufts community to conduct their vital research. SEI-U.S. has also been invested in various student organizations and academic programs, and has at times helped to support new academic initiatives at Tufts. In particular, SEI-U.S. has taken an active role in the Water: Systems, Science, and Society (WSSS) graduate program, the Water Diplomacy: Integrated Graduate Education and Research Traineeship (IGERT) doctoral program, and the Global Development And Environment Institute (GDAE). The SEI-U.S. Center has additionally offered internships for Tufts students, and several of the recent hires to the Center's taskforce have been Tufts graduates.

Tufts University and SEI-U.S. celebrated the beginning of their partnership with the 2007 Climate Symposium that saw the gathering of scientists and researchers from around the world to discuss the multi-faceted implications of this global issue, and the strides that could be made to ensure climate protection. The last ten years have additionally seen several other symposiums relating to issues of water and energy, domestic climate policy, and the intersection between poverty and sustainability. These convening moments represent not only the two organizations' focus on research, but also their enduring commitment to collaboration and inter-disciplinary conversation. Such events have allowed for ideas, research, and experiences to be shared by peers across organizations and disciplines, and represent the primary goal of Tufts and SEI-U.S.'s association. Today, we gather at the 2017 Nexus Symposium to commemorate the last ten years of dedicated cooperation, and celebrate by creating space for conversations that will pave the way for further advancement in environmentalism, development, and sustainability within the nexus framework.

OPENING REMARKS



Tony Monaco

Tony Monaco is Tufts University President and Professor of Biology and Neuroscience. Prior to his arrival at Tufts, Monaco was the pro-vice-chancellor for planning and resources at Oxford University, the Director of the Oxford University Wellcome Trust Centre for Human Genetics, and leader of Oxford's Neurogenetics Group. As Tufts President, one of Monaco's major commitments is supporting and improving sustainability at Tufts, and its intersection with higher education, diversity, and global perspectives. A member of the European Molecular Biology Organization (EMBO) and the Association of American Physicians (AAP), and a fellow of the Academy of Medical Science (U.K.) and the Royal Society of Medicine, Monaco earned his M.D. and Ph.D. from the Harvard Medical School Medical Scientist Training program, and did his undergraduate work at Princeton University.

WELCOME NOTES

Linda Abriola

Linda Abriola is the Director of the Tufts Institute of the Environment (TIE), and University Professor in both the Department of Civil and Environmental Engineering and Chemical and Biological Engineering. She is also a former Dean of the Tufts University School of Engineering, a position she held from 2003-2015, and is a member of the American Academy of Arts and Sciences, the National Academy of Engineering (NAE), and a Fellow of the American Geophysical Union. Prior to her work at Tufts, Abriola was the Horace Williams King Collegiate Professor of Environmental Engineering at the University of Michigan. Specializing in the recovery and destruction of subsurface contaminants, Abriola is a distinguished and highly recognized researcher, with numerous awards including the 2016 U.S. Science Envoy from the U.S. State Department. Abriola earned her Ph.D., M.S., and M.A. in Civil Engineering from Princeton University, and her B.S. from Drexel University, also in Civil Engineering.

Annette Huber-Lee

Annette Huber-Lee is a Senior Scientist at the SEI-U.S. Center, where she returned after serving as the Director of the SEI-Asia Center until 2013. At the U.S. Center, Huber-Lee leads several large-scale projects in Africa, the Middle East, China, and the U.S. on the intersections between water, energy, and food. In addition, she actively works on natural resource conflict management and robust decision support. Prior to joining SEI, Huber-Lee was a research assistant professor and lecturer at Tufts University, and served as Science and Theme Leader for the Challenge Program on Water and Food at the International Food Policy Research Institute in Washington, D.C. Huber-Lee earned her Ph.D. in Engineering Sciences from Harvard University, her M.S. in Civil Engineering from the Massachusetts Institute of Technology, and a B.S. in Agriculture Engineering from Cornell University.

MASTERS OF CEREMONIES

Linda Abriola &

Michael Lazarus

Michael Lazarus is a Senior Scientist and Director of the SEI-U.S. Center based in Seattle. Lazarus' research in energy and international climate change policy focuses on climate change mitigation policy at the local, national, and international levels. His current work ranges from carbon market design to the integration of national energy and climate policies. In addition to this research, Lazarus designed and now co-leads the SEI Carbon Initiative, examining fossil fuel development and climate change. With over 25 year of experience in energy and environmental analysis, Lazarus has numerous publications related to climate change, mitigation, and energy. Lazarus received his M.S. in Energy and Resources from the University of California-Berkeley and a B.A. in Chemistry from Wesleyan University.

Panel 1: Energy and Climate

The Panel "Energy and Climate" will focus on the many complex issues we face today in which the topics of energy and climate change are best addressed when merged. The panelists include specialists in energy policy, bioenergy, energy technology, and energy system. Additionally, the panel address these issues within the context of climate change mitigation policy analysis, capacity-building and economics through their research.

William Moomaw: Moderator

William Moomaw is Professor Emeritus of International Environmental Policy at The Fletcher School of Law and Diplomacy, where he also serves as the founding Director of the Center for International Environment and Resource Policy (CIERP), and co-founder of the Global Development And Environment Institute (GDAE). In addition to his contributions at Tufts University, Moomaw also serves on the Board of Directors of The Clean Climate Group, Clean Air-Cool Planet (where he also is recognized as a co-founder), Earthwatch Institute, Center for Ecological Technologies, and the Consensus Building Institute. He previously served as the first Director of the Climate, Energy, and Pollution program at the World Resources Institute, and as Director of the Center for Environmental Studies at Williams College, where he held an endowed chair in Chemistry. Working at the global intersection of climate change, energy policy, nitrogen pollution, and forestry financing and management, Moomaw's research strives to reduce or eliminate harmful pollutants and further progress in sustainable development through changes in domestic and international policy. A distinguished researcher and scholar, Moomaw has worked as lead author and contributor for several United Nations Intergovernmental Panel of Climate Change (IPCC) reports, including *Climate Change 2007,* the Fourth Assessment Report, which was awarded the Nobel Peace Prize. His most recent scholarship includes the co-authored "Sustainable Development Diplomacy: Diagnostics for the Negotiation and Implementation of Sustainable Development" (2016), which examines the international process of implementing the United Nations' Sustainable Development Goals. A graduate of Williams College, Moomaw earned his Ph.D. in Physical Chemistry from the Massachusetts Institute of Technology.

Rob Bailis: Panelist

Rob Bailis is a Senior Scientist at SEI-U.S. Center based in Somerville, MA. His current research focuses on biomass energy in a variety of sources, from traditional energy carriers such as wood and charcoal to liquid biofuels, and includes several projects on household energy with agency partnerships such as Proyecto Mirado, the Global Alliance for Clean Cookstoves, and the U.S. EPA. In examining the effects of increased reliance on non-traditional forms of bioenergy, Bailis' work approaches these implications with a perspective that combines social impact and life cycle assessments. This research has brought Bailis to both Brazil and the southern U.S. to examine oilseed crops, eucalyptus plantations, and forest-bioenergy. Prior to SEI, Bailis' positions included academic researcher and university instructor. Bailis earned his Ph.D. in Energy and Resources from the University of California-Berkeley, his M.S. from Northwestern University, and his B.S. from Pennsylvania State University, both in Physics.

Ujjayant Chakravorty: Panelist

Ujjayant Chakravorty is Professor of Economics at Tufts University and co-editor of the Journal of Environmental Economics and Management. He is a Fellow at the Toulouse School of Economics and CESifo. In 2015-16, he was a Gilbert F. White Fellow at Resources for the Future in Washington, D.C. Previously, Chakravorty served as a visiting professor at Sorbonne and the Graduate School of International Studies at Geneva. His research lies at the intersection of environment, energy, and development. His current projects include studying fuelwood markets in India, water depletion in India and China, and the adoption of water conservation technologies in Bangladesh. Chakravorty earned his Ph.D. in Resource and Environmental Economics from the University of Hawaii/East-West Center, was a visiting student at the University of California-Berkeley, and obtained his B.S. in Civil Engineering from IIT Delhi.

Kelly Sims Gallagher: Panelist

Kelly Sims Gallagher is Professor of Energy and Environmental Policy at The Fletcher School, where she also serves as the Director of the Center for International Environment and Resource Policy (CIERP). A member of the board of the Belfer Center for Science and International Affairs at Harvard University, Gallagher is also the former director of the Energy Technology Innovation Policy (ETIP) and a member of the Council on Foreign Relations. Specializing in the development of cleaner, more efficient energy technology, Gallagher focuses on energy and climate policy in both the United States and China, and has served as the Senior Policy Advisor in the White House Office of Science and Technology Policy and as Senior China Advisor at the U.S. State Department in the Special Envoy for Climate Change during the Obama Administration. A recognized author, Gallagher is a Truman Scholar, and earned her MALD and Ph.D. from The Fletcher School at Tufts University, and her AB from Occidental College.

Jason Veysey: Panelist

Jason Veysey is a Senior Scientist at the SEI-U.S. Center in Somerville, MA. His primary research focuses on energy system modeling, climate change mitigation policy analysis, and modeling and policy capacity-building in developing nations. Through this focus, Veysey works to improve the effectiveness of models, data systems, and analysis to better answer questions on climate and energy policy for stakeholders who are not professional programmers or modelers. At SEI, Veysey's work has included working on the Integrated Climate Modeling and Capacity Building for Latin America (CLIMACAP) and the Supporting Mitigation in Low Emission Development Strategies projects. Prior to joining SEI in 2013, Veysey worked under the Easter Research Group, an environment and energy consultancy to support public-sector climate and energy programs. Veysey has an MPP in environmental policy from Tufts University and a B.A. in Government and French Studies from Harvard University.

KEYNOTE SPEAKER:

Steven Chapra

"The Past, Present & Future of Water Quality Modeling: Moving from Survival to Sustainability as the Climate Changes"

Steven Chapra is Professor of Civil and Environmental Engineering, and the Louis Berger Chair of Civil and Environmental Engineering at the Tufts University School of Engineering. Specializing in water quality modeling, numerical methods, and advanced computer applications in environmental engineering, Chapra's research aims to improve water quality in natural sources by applying computation mathematics and modeling. As the author of over ninety publications, he has contributed to a variety of research on domestic water sources, analyzing factors such as climate change, algae growth, sediment levels, and phosphorus and nitrogen criteria. In particular, Chapra has contributed to the scholarship on phosphorous level retention, analysis, and modeling of the Great Lakes. He is a Fellow in the American Society of Civil Engineers (ASCE), as well as one of the five inaugural Fellows of the Association of Environmental Engineering and Science Professors (AEESP). His scholarship has been recognized with Wesley W. Horner Awards from the ASCE Environmental and Water Resources Institute, which he received in both 2015 and 2016, as well as the 2009 Chandler-Misener Award from the International Association for Great Lakes Research, the 2000 Wiley Interscience Award for Outstanding Contributions to Environmental Engineering and Science Education, AEESP, and the 1993 Rudolph Hering Medal from the ASCE Environmental and Water Resources Institute. Chapra is the author of several engineering textbooks, including the celebrated *Numerical Methods for Engineers*, which has been adopted at over 150 universities worldwide. His career-long commitment to students and outstanding teaching has been recognized at every university he has taught at, culminating with his being named the 2011 Professor of the Year at Tufts. Chapra earned his Ph.D. in Water Resource and Environmental Engineering from the University of Michigan, and both his M.E. in Environmental Engineering and B.S. in Civil Engineering from Manhattan College.

Panel 2: Food, Water, and Health

The Panel "Food, Water, and Health" will focus around the United Nation's Sustainable Development Goals (SDG) in the context of developing countries. In particular, the panelists will assess and discuss the challenges of meeting SDG 2: Zero Hunger, 3: Good Health and Well-Being, and 6: Clean Water and Sanitation, especially in Latin America and Africa. As each of these goals require a unique approach, the panelists will also emphasize the benefits and difficulties encountered in the attempt to meet several SDGs simultaneously.

Eric Kemp-Benedict: Moderator

Eric Kemp-Benedict is a Senior Scientist at the SEI-U.S. Center in Somerville, MA and Co-Leader of the SEI Initiative on the Water, Energy, and Food Nexus. After joining SEI in 1997, Kemp-Benedict, contributed to studies relating to regional, national, and global sustainability. Kemp-Benedict specializes in economic analysis for sustainable consumption and production, and has developed and applied methods to better study sustainability factors such as poverty, income distribution, social dynamics, water, land use, and rural livelihoods. Prior to joining the U.S. Center, Kemp-Benedict led SEI's Rethinking Development theme from 2011-2012, and was Director of the SEI-Asia Center from February 2013-2016. While at the Asia Center, he was responsible for research, administration, and financial leadership, and contributed to SEI's international management by helping coordinate the Center's interactions with worldwide headquarters and colleagues. During Kemp-Benedict's twenty years at SEI, he has published over seventy articles and reports that illustrate the wide applicability of his economic focus on sustainability. Among many other topics, his publications examine water management interventions, agribusiness in Southeast Asia, policy options in the shift to a green economy, and socioeconomic vulnerability in the face of climate change. Kemp-Benedict earned his Ph.D. in Theoretical Physics from Boston University and his B.S. in Physics from the University of Texas-Austin.

Jeffrey Griffiths: Panelist

Jeffrey Griffiths is Professor of Public Health and Community Medicine and Adjunct Professor of the Freidman School of Nutrition and the School of Engineering at Tufts University. Griffiths is also an Attending Physician and Director of the Global Health, Public Health and Professional Degree Programs at the Tufts University School of Medicine. As a specialist in infectious diseases, especially Cryptosporidiosis and other tropical parasitic diseases, Griffiths' research focuses on the emerging pathogen of Cryptosporidium, the influence of environmental factors on common infectious diseases, waterborne disease epidemiology and their public policy and regulation, and the development of an ultrastable measles vaccine. Griffiths was award the 2014 Zucker Family Research Prize in recognition for his outstanding work on infectious diseases, especially those that impact developing countries. Prior to his contributions at Tufts, Griffiths worked for fifteen years as an advisor to the Environmental Protection Agency (EPA), and also served as Chair of the Drinking Water Committee for the EPA's Science Advisory Board. Griffiths holds an AB, MD, MPH &TM from Harvard College, the Albert Einstein College of Medicine, and the Tulane University School of Tropical Medicine and Hygiene.

Francisco Flores: Panelist

Francisco Flores is a Senior Scientist and Water Resources Engineer at the SEI-U.S. Center, based in Davis, California. Combining hydrology, agriculture engineering, and water resources engineering, Flores works to develop new methods and tools to better manage water resources in both the U.S. and internationally. Flores specializes in the implementation of plant growth modeling (PGM) tools of SEI's Water Evaluation and Planning (WEAP) system platform, which examines the impact of altered weather variables and CO2 on biomass production, crop yields, and irrigation/water demands in cultivated and non-cultivated regions. At SEI, Flores has worked on several projects, including Water Resources Planning through Climate Change Capacity Building, Modeling the Role of Páramo in Mountain Hydrology Under Climate Change, and Development Without Carbon. Prior to joining SEI's team, Flores worked for the Mexico Country Program of the International Water Management Institute as an engineer for projects on applied water resources. Flores earned his Ph.D. in Soil and Water Engineering from Cornell University, his M.S. in Water Resources Engineering from the Colegio de Postgraduados and B.S. in Agriculture Engineering from the Universidad Autonoma Chapingo.

Beatrice Lorge Rogers: Panelist

Beatrice Rogers is Professor of Economics and Food Policy and the Director of the Food Policy and Applied Nutrition Program at the Tufts University Friedman School of Nutrition Science and Policy. Specializing in the economic, political, and social science dimensions of global nutrition challenges, Rogers' research focuses on the economic determinants of household food consumption, including price policy and food aid. Currently, her research examines the effectiveness and cost-effectiveness of alternative supplementary foods for the treatment and prevention of malnutrition in children, based on three field studies in Sub-Saharan Africa. Previously, Rogers completed a multi-country study examining how food assistance programs can be made sustainable after the program is closed. This research will be used to inform the design of future development projects to ensure interventions produce lasting change. A distinguished researcher and mentor, Rogers has been recognized with the Friedman School's Distinguished Faculty award in 2008 and the Dannon Mentorship Award from the American Society for Nutrition in 2014. She earned her Ph.D. in Economic and Public Health Policy from Brandeis University, and her B.A. in Experimental Psychology from Harvard University.

Daniele Lantagne: Panelist

Daniele Lantagne is Assistant Professor in the Department of Civil and Environmental Engineering at Tufts University, where she also holds a Public Health and Community Medicine adjunct faculty position in the School of Medicine. Her research focuses primarily on evaluating the effectiveness of water and sanitation interventions in reducing the burden of infectious diseases. Lantagne is also the Principal Investigator of the research lab the Lantagne Group, which involves students on a variety of projects that include testing the relationship between *E. coli* and *Vibrio Cholerae* in Haitian water sources and the effects of disinfection to prevent Ebola transmission. Prior to her work at Tufts, Lantagne was the Sustainability Science Fellow at Harvard University, the Founder and Principal of Lancon Consulting, which partnered with organizations like the UN and UNICEF in water treatment evaluation, and a Public Health Engineer at the CDC. Lantagne earned her Ph.D. in Infectious Tropical Diseases from the London School of Hygiene and Tropical Medicine, and both her M.Eng. and S.B. in Environmental Engineering from the Massachusetts Institute of Technology.

Philip Osano: Panelist

Philip Osano is a Research Fellow for Water, Land, and Ecosystem Services at SEI-Africa. Osano examines environmental policy and governance with a focus on the economics of biodiversity and ecosystem conservation, pastoral and rangeland management, the intersection of environment and security, agriculture policy, and adaption to climate change. Before joining SEI, Osano supported the African Union Commission (AUC) as part of a core team based in Addis Ababa, Ethiopia that coordinated activities for the 2014 African Year of Agriculture and Food Security. While at the AUC, Osano assisted in the preparation of the 10-year AU Strategy and Roadmap for the Malabo Declaration on Accelerated Agricultural Growth and Transformation, which helped to guide the implementation of the Comprehensive African Agriculture Development Programme (CAADP) that will be in operation throughout the continent until 2025. Additionally, Osano has more than a decade of experience consulting and working with international research agencies such as the ILRI and ICRAF, intergovernmental agencies, and universities from Africa, Europe, Canada, and the U.S. Osano earned his Ph.D. in Geography from McGill University, his MSc in Conservation Biology from the University of Cape Town, and BSc in Environmental Science from Egerton University.

KEYNOTE SPEAKER:

Johan Kuylenstierna

"The Global Sustainability Agenda: Where is it Heading and are there Reasons for Optimism?"

Johan Kuylenstierna is Executive Director of SEI, a position he has held since April 2012. As Executive Director, Kuylenstierna has emphasized building SEI's capacity to promote and provide scientific support to policy developments and changes supporting a more sustainable future. This includes examining the intersection of environmental issues with poverty reduction, economic development, fair trade, and working to address multi-faceted issues through his leadership of SEI. Kuylenstierna previously served SEI as the Stockholm Center Director. During this time, he worked on several projects and publications, including the Sustainable Development Goals (SDG) Study on Water, "Unpacking the Water-Energy-Food Nexus: Tools for Assessment and Cooperation Along a Continuum," and "Managing the Water-Land-Energy Nexus for Sustainable Development." Before joining SEI in 2010, Kuylenstierna worked as the Chief Technical Advisor to the Chair of UN-Water, based at the Food and Agriculture Organization (FAO) of the United Nations in Rome, and additionally served on the UN Division of Sustainable Development (CSD) in New York, where he focused primarily on water and climate change from the management and policy perspective. His international policy work also extends to the World Meteorological Organization in Geneva, where he worked as a Junior Scientific Officer. In addition to his international contributions, Kuylenstierna served as Project Director at the Stockholm International Water Institute, where he was responsible for World Water Week in Stockholm, and also established the Swedish Water House Initiative, serving as its first manager. Currently, Kuylenstierna is Adjunct Professor of International Water Resources Issues position at Stockholm University, in the Department of Physical Geography and Quaternary Sciences. With an academic background in Paleoclimatology, Kuylenstierna earned his Ph.Lic in Geography and B.Sc. in Earth Sciences both from Stockholm University.

Tufts-SEI Nexus Symposium

AGENDA 11 April 2017

1:00-1:15	**Opening Remarks** • Tony Monaco, *Tufts University President*
1:15-1:30	**Welcome Note** • Annette Huber-Lee, *SEI Senior Scientist, specializing in Economics and Engineering for Sustainable Solutions* • Linda Abriola, *Director of Tufts Institute of the Environment and University Professor of Civil and Environmental Engineering*
1:30-2:30	**1st Panel: Energy and Climate** • William Moomaw – moderator, *Tufts Professor Emeritus of International Environmental Policy* • Rob Bailis, *SEI Senior Scientist, specializing in Biomass Energy, Biofuels, and Household Energy* • Ujjayant Chakravorty, *Tufts Professor of Economics* • Kelly Sims Gallagher, *Tufts Professor of Energy and Environmental Policy* • Jason Veysey, *SEI Senior Scientist, specializing in Energy System Modeling and Climate Change Mitigation*
2:30-3:00	**1st Keynote: "The Past, Present & Future of Water Quality Modeling: Moving from Survival to Sustainability as the Climate Changes"** • Steven Chapra, *Tufts Professor of Civil and Environmental Engineering*
3:00-3:30	**Coffee Break**
3:30-4:30	**2nd Panel: Food, Water, and Health** • Eric Kemp-Benedict – moderator, *SEI Senior Scientist, specializing in Sustainable Consumption and Production* • Jeffrey Griffiths, *Tufts Professor of Public Health and Community Medicine and Adjunct Professor of the Friedman School of Nutrition* • Francisco Flores, *SEI Senior Scientist, specializing in Hydrology, Agriculture Engineering, and Water Resources Engineering* • Beatrice Lorge Rogers, *Tufts Professor of Economics and Food Policy and Director of the Food Policy and Applied Nutrition Program* • Daniele Lantagne, *Tufts Assistant Professor of Civil and Environmental Engineering and Adjunct Professor of Public Health & Community Medicine* • Philip Osana, *SEI Research Fellow, specializing in Water, Land and Ecosystem Services for Environmental Policy and Governance*
4:30-5:00	**2nd Keynote: "The Global Sustainability Agenda - Where is it Heading and are there Reasons for Optimism?" & Closing Remarks** • Johan Kuylenstierna, *SEI Executive Director*
5:00-6:00	**Reception and Poster Exhibition –** located in Remis Sculpture Hall

Master of Ceremonies: Linda Abriola & Michael Lazarus, *SEI Senior Scientist, specializing in Energy and International Climate Change Policy and Director of U.S. Center in Seattle*