Background

The world today is facing unprecedented, interconnected environmental and sustainability challenges. Achieving sustainable development requires global efforts that are ambitious, action-oriented, and collaborative.

The US and China are the leaders of the global economy. At the same time, they also contribute significantly to many sustainability challenges worldwide. Both countries play particularly important roles for global sustainability.

By bring together experts from both the US and China on the environment and sustainability, the US-China Environment and Sustainability Forum at the University of Michigan (UCESF@UM) aims to:

1) take stock of achievements in addressing environmental and sustainability challenges in both countries, and

2) identify critical areas that the two countries could and should work together to help the global transition towards sustainable development.

UCESF@UM is single-track, meaning there will be only one session at a time without parallel sessions. The Forum will consist of seven panels on specific topics in the environment and sustainability. Each panel features four invited panelists from both the US and China. We encourage in-depth discussions between the panelists and the audience.
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<tr>
<th>Time</th>
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<tr>
<td>7:30-8:30am</td>
<td><strong>Registration and Breakfast</strong></td>
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<tr>
<td>8:30-8:35am</td>
<td><strong>Introduction</strong></td>
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<tr>
<td></td>
<td>Ming Xu, Associate Professor, University of Michigan</td>
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<tr>
<td>8:35-8:45am</td>
<td><strong>Welcome</strong></td>
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<td>Jonathan T. Overpeck, Samuel A. Graham Dean of School for Environment and Sustainability, University of Michigan</td>
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<tr>
<td>8:45-8:55am</td>
<td><strong>Opening Remarks</strong></td>
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<td>Martin Philbert, Provost, University of Michigan</td>
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<td>8:55-9:50am</td>
<td><strong>Keynote Speeches by Co-Chairs</strong></td>
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<td></td>
<td>• Glen Daigger, Professor, University of Michigan</td>
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<td>• Jiuhui Qu, Professor, Tsinghua University/Chinese Academy of Sciences</td>
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<tr>
<td>9:50-9:55am</td>
<td><strong>Group photo</strong></td>
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<tr>
<td>10:00-10:15am</td>
<td><strong>Break</strong></td>
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<tr>
<td>10:15am - 12:00pm</td>
<td><strong>Natural Resources</strong></td>
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<td>• Thomas E. Graedel, Clifton R. Musser Professor Emeritus, Yale University</td>
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<td>• Jianguo “Jack” Liu, Rachel Carson Chair, University Distinguished Professor, Michigan State University</td>
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<td>• Zhiyun Ouyang, Professor and Director of Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</td>
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<td>• Bing Zhu, Professor and Director of Institute of Circular Economy, Tsinghua University</td>
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<tr>
<td>12:00-1:00pm</td>
<td><strong>Lunch</strong></td>
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<td>Time</td>
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<td>1:00-2:45pm</td>
<td><strong>Environmental Health</strong></td>
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<td>2:45-3:05pm</td>
<td><strong>Break</strong></td>
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<td>3:05-3:15pm</td>
<td><strong>Signing Ceremony</strong></td>
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<td>3:15-5:00pm</td>
<td><strong>Environment and Sustainability Education</strong></td>
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| 5:00-6:00pm | **Transport to Rackham Auditorium on Central Campus**  
(chartered bus and brown bag snacks on the go) |
| 6:00-7:30pm | **Keynote Speech (open to public): The Clean Energy Revolution is (Finally) Here**  
- Daniel Kammen, Class of 1935 Distinguished Professor and Chair of Energy & Resources Group, University of California, Berkeley  
Rackham Auditorium on Central Campus |
| October 2 | **Breakfast** |
| 8:30-10:15am | **Air Pollution and Quality**  
- Pratim Biswas, Lucy & Stanley Lopata Professor, Assistant Vice Chancellor, and Chair of Department of Energy, Environmental & Chemical Engineering, Washington University in St. Louis  
- Fudong Liu, Assistant Professor, University of Central Florida (with inputs from Hong He, Professor, Chinese Academy of Sciences)  
- Denise L. Mauzerall, Professor, Princeton University  
- Ye Wu, Professor and Associate Dean of School of Environment, Tsinghua University (with inputs from Jiming Hao, Professor, Tsinghua University) |
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<tr>
<th>Time</th>
<th>Session Title</th>
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<td>10:15-10:35am</td>
<td>Break</td>
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<tr>
<td>10:35am-12:20pm</td>
<td>Sustainable Development and Public Policy</td>
<td>• Arun Agrawal, Samuel Trask Dana Professor, University of Michigan</td>
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<td>• Anu Ramaswami, Professor of India Studies, Civil and Environmental Engineering, and the Princeton Environment Institute, Director of the M.S. Chadha Center for Global India, Princeton University</td>
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<td>• Yonglong Lu, Professor and Deputy Director of Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences</td>
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<td>• Shangbao Yang, Deputy Director of Central Committee of Energy, Resources and Environment, China Democratic National Construction Association</td>
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<td>Moderator: Rosina Bierbaum, Professor, University of Michigan, Roy F. Weston Chair in Natural Economics, University of Maryland</td>
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<tr>
<td>11:45am-1:00pm</td>
<td>Lunch</td>
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<td>1:30-3:15pm</td>
<td>Climate, Carbon and Energy</td>
<td>• Ying Fan, Professor and Dean of School of Economics and Management, Beihang University</td>
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<td>• Daniel Kammen, Class of 1935 Distinguished Professor and Chair of Energy &amp; Resources Group, University of California, Berkeley</td>
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<td>3:15–3:35pm</td>
<td>Break</td>
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<td>3:35–5:20pm</td>
<td><strong>Water Systems</strong></td>
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<td>• Pedro J. Alvarez, George R. Brown Professor, Rice University</td>
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<td>• Yongsheng Chen, Professor and Director of USDA Project on Food Energy Water Sustainability, Georgia Institute of Technology</td>
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<td>• Hongqiang Ren, Professor and Dean of School of Environment, Nanjing University</td>
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<td>• Aijie Wang, Professor, Chinese Academy of Sciences</td>
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<td>Moderator: Nancy G. Love, Borchardt and Glysson Collegiate Professor, University of Michigan</td>
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<td>5:20–6:00pm</td>
<td>Transport to Michigan League on Central Campus (chartered bus)</td>
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<td>6:00–8:00pm</td>
<td>Poster Session with Heavy Hors d'Oeuvres, Koessler/Henderson Room, Michigan League</td>
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## Organization

| University of Michigan Sponsors | School for Environment and Sustainability  
|                               | Lieberthal-Rogel Center for Chinese Studies  
|                               | College of Engineering  
|                               | School of Public Health  
|                               | Graham Sustainability Institute  
|                               | Ross School of Business  
|                               | Center for Sustainable Systems  
|                               | Department of Civil and Environmental Engineering  
| External Sponsors | National Academy of Engineering  
|                   | Chinese Academy of Engineering  
|                   | NSF International  
| Co-Chairs | Glen Daigger, Professor, University of Michigan  
|           | Jiuhui Qu, Professor, Tsinghua University / Chinese Academy of Sciences  
| Organizing Committee | Chair:  
|                   | Ming Xu, Associate Professor and Director of China Programs, School for Environment and Sustainability, University of Michigan  
|                   | Co-Chair:  
|                   | Chuanwu Xi, Professor, School of Public Health, University of Michigan  
|                   | Mary Gallagher, Amy and Alan Lowenstein Professor and Director of Lieberthal-Rogel Center for Chinese Studies, University of Michigan  
|                   | Jonathan T. Overpeck, Samuel A Graham Dean and William B. Stapp Collegiate Professor of Environmental Education, School for Environment and Sustainability, University of Michigan  
|                   | Brian Wu, Associate Professor, Ross School of Business, University of Michigan  

Opening Remark Speaker

Martin Philbert
Provost and Executive Vice President for Academic Affairs,
University of Michigan

Prof. Philbert is provost and executive vice president for academic affairs at the University of Michigan. He is also a professor of toxicology at the School of Public Health, where he served as dean from 2010 to 2017. His research has focused on the development of flexible polymer nanoplatforms for optical sensing of ions and small molecules and the early detection and treatment of brain tumors. Prof. Philbert is an elected Member of the Institute of Medicine of the National Academies of Science, a Fellow of the Royal Society of Chemistry, a Fellow of the Academy of Toxicological Sciences.

Co-Chairs

Glen Daigger
Professor, Department of Civil and Environmental Engineering, University of Michigan

Prof. Daigger focuses on the fundamental science and engineering supporting the advancement of technologies and practices. These have included topics such as wastewater nutrient removal and recovery (biological and chemical), treatment process optimization and control (particularly biological treatment systems), control of activated sludge bulking and foaming. He is a Distinguished Member of the American Society of Civil Engineers, a Distinguished Fellow and Past President of International Water Association, and a Member of the National Academy of Engineering.

Jiuhui Qu
Professor, Tsinghua University and Chinese Academy of Sciences

Prof. Qu engages in water science and technology research, with special emphasis on the theory, technology and engineering application of drinking water protection. He is a Member of the Chinese Academy of Engineering, a Foreign Member of the U.S. National Academy of Engineering, and a Fellow of Academy of Developing Countries. He was awarded two National Awards for Progress in Science and Technology and a National Technological Invention Award once. He won the Prize for Science and Technology Progress (Ho Leung Ho Lee Foundation) in 2009.
Panelists and Moderators

Arun Agrawal
Samuel T. Dana Professor, School for Environment and Sustainability, University of Michigan

Prof. Agrawal emphasizes the politics of international development, institutional change, and environmental conservation in his research and teaching. He is the coordinator for the International Forestry Resources and Institutions network, and is currently carrying out research in central and east Africa as well as South Asia. Since 2013, Prof. Agrawal has served as the editor-in-chief of World Development and his recent work has appeared in Science, PNAS, Conservation Biology, Development and Change, and other journals. He is a Member of the National Academy of Sciences.

Pedro J. Alvarez
George R. Brown Professor, Department of Civil and Environmental Engineering, Rice University

Prof. Alvarez's research includes environmental implications and applications of nanotechnology, bioremediation, fate and transport of toxic chemicals, water footprint of biofuels, water treatment and reuse, and antibiotic resistance control. He is an Associate Editor of Environmental Science and Technology and previously served on the Scientific Advisory Board of the EPA and the Advisory Committee of the NSF Engineering Directorate. Prof. Alvarez is the 2012 Clarke Prize laureate and a Member of the National Academy of Engineering.

Angela Beck
Clinical Assistant Professor, Assistant Dean for Student Engagement and Practice, School of Public Health, University of Michigan

Prof. Beck is Clinical Assistant Professor in the Department of Health Behavior and Health Education. She serves as Director of the Behavioral Health Workforce Research Center and the Region V Public Health Training Center. She has held research and administrative roles for several UMSPH programs since 2005. Prior to her appointment at UMSPH, she served as a Public Health Fellow at the Health Resources and Services Administration. She has served as Assistant Dean for Student Engagement and Practice since 2017 and chairs the school's accreditation efforts.
Rosina Bierbaum
Professor, School for Environment and Sustainability, University of Michigan
Roy F. Weston Chair in Natural Economics, University of Maryland

Prof. Bierbaum focuses on the interface of science and policy-- principally on issues related to climate change adaptation and mitigation at the national and international levels. She served for two decades in both the legislative and executive branches of the U.S. Government, and ran the first Environment Division of the White House Office of Science and Technology Policy. She was an Adaptation Fellow at the World Bank, and a lead author of the U.S. National Climate Assessment. Prof. Bierbaum is a Member of the National Academy of Sciences and a Fellow of the American Academy of Arts and Sciences.

Pratim Biswas
Lucy & Stanley Lopata Professor, Assistant Vice Chancellor, Chair of Department of Energy, Environmental & Chemical Engineering, Washington University in St. Louis

Prof. Biswas specializes in aerosol science and engineering; nanoparticle technology; air quality engineering; environmentally benign energy production; combustion; materials processing for environmental technologies, environmentally benign processing, environmental nanotechnology, and the thermal sciences. He has played a leading role at the national and international arena in the field of aerosol science and technology. He is a Member of the National Academy of Engineering.

Yongsheng Chen
Professor, School of Civil and Environmental Engineering, Georgia Institute of Technology

Prof. Chen’s research interests include nanotechnology for environmental applications and implications; membrane separations for water/wastewater treatment, nutrient recovery, and energy production; and Food-Energy-Water Nexus. He is the Director of USDA Project on Food Energy Water Sustainability, and is a Deputy Director of Green Buildings and Sponge Cities Research Center at Georgia Institute of Technology and Tianjin University Shenzhen Campus (GTSI). He has received many awards, including the 2015 Sigma Xi Best PhD Student Dissertation Advisor Award and 2014 AEESP Outstanding PhD Student advisor Award.
Dana Dolinoy
NSF International Chair of Environmental Health Sciences, University of Michigan

Prof. Dolinoy focuses on nutrition and environmental chemicals and how many common compounds, such as bisphenol A (BPA) and lead (Pb), may have deleterious physiological consequences through abnormal epigenetic and genetic regulation. She serves as Associate Editor of Environmental Health Perspectives, and Toxicological Sciences. Prof. Dolinoy received the 2011 Norman Kretchmer Memorial Award from the American Society for Nutrition, the 2015 NIH Director’s Transformative Research Award, and the 2018 Society of Toxicology Achievement Award.

Ying Fan
Professor and Dean of School of Economics and Management, Beihang University

Prof. Fan research interests include system analysis of energy economics, energy finance, emission trading scheme, energy and climate policy and so on. She has done some valuable work in modeling and analyzing of the energy-environment-economy system. Prof. Fan is the Director of the Center for Energy and Environmental Policy Research, Vice President for Academic Affairs of the International Association for Energy Economics. She has led over 60 national and international projects in recent years.

Alec D. Gallimore
Robert J. Vlasic Dean of Engineering, University of Michigan

Prof. Gallimore is a rocket scientist, and in 2019 was elected to the National Academy of Engineering--among the highest professional distinctions accorded to an engineer. He is a leader in the field of advanced electric propulsion, who has excelled in research, teaching and service. Prof. Gallimore has served on a number of advisory boards for NASA and the Department of Defense, including the United States Air Force Scientific Advisory Board (AFSAB). He was awarded the Decoration for Meritorious Civilian Service in 2005 for his AFSAB work. In 2010, he was elected a fellow of the American Institute of Aeronautics and Astronautics (AIAA). He has graduated 41 Ph.D. students and 14 master’s students and has written more than 360 publications on electric propulsion and plasma physics.
Mary Gallagher
Amy and Alan Lowenstein Professor, Director of Lieberthal-Rogel Center for Chinese Studies, University of Michigan

Prof. Gallagher’s research areas are Chinese politics, comparative politics of transitional and developing states, and law and society. The underlying question that drives her research in all of these areas is whether the development of markets is linked to the sequential development of democratic politics and legal rationality. She was a Fulbright Research Scholar at East China University of Politics and Law in Shanghai, China. She was part of the public intellectual program for the National Committee on US-China Relations, a program that brought together academics and policy makers working on US-China relations.

H. Oliver Gao
Professor, Department of Civil and Environmental Engineering, Cornell University

Prof. Gao’s research focuses on transportation systems, environment (especially air quality and climate change), energy, and sustainable development. He also studies sustainable food systems, quantifying and mitigating greenhouse gas emissions from food supply chains. He is a member of the Transportation Research Board Committee on Transportation and Air Quality (ADC20), a member of Transportation Research Board Committee on Maintenance Equipment (AHD60), and a member (invited) on the editorial board of Transportation Research Part D: Transport and Environment.

Thomas E. Graedel
Clifton R. Musser Professor Emeritus of Industrial Ecology, Yale University

Prof. Graedel’s research is centered on developing and enhancing industrial ecology, the organizing framework for the study of the interactions of the modern technological society with the environment. His interests include the flows of materials within the industrial ecosystem and the development of analytical tools to assess the environmental characteristics of products, processes, the service industry, and urban infrastructures. He was elected to the U.S. National Academy of Engineering for “outstanding contributions to the theory and practice of industrial ecology” in 2002.
Jiming Hao
Professor, School of Environment, Tsinghua University
Prof. Hao has committed to China’s air pollution control research for over 40 years. He played a key role in China’s national acid subsidence control plan and acid rain and sulfur dioxide control policies. His research focuses on air pollution control, energy and environment, and vehicle emission control. He developed urban motor vehicle pollution control planning method to promote motor vehicle pollution control in China. Prof. Hao is a Member of the Chinese Academy of Engineering and a Foreign Member of the National Academy of Engineering.

Hong He
Professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
Prof. He’s research interests are multi-phase transformation of pollutants in environmental catalysis and atmospheric chemistry. He adopts a combination of theory and experiment, utilizing advanced surface science methods to characterize the catalytic reaction in situ, assisted by theoretical model calculations. Prof. He is a Member of the Chinese Academy of Engineering.

Baolan Hu
Professor and Associate Dean of College of Environmental and Resource Sciences, Zhejiang University
Prof. Hu’s current research is focused on the microbial carbon, nitrogen and sulfur cycles in natural habitats (especially the denitrifying anaerobic methane oxidation process and complete ammonia oxidizing process), and novel carbon and nitrogen removal processes for wastewater treatment and airborne microorganism (temporal and spatial distribution & transport and transformation of bioaerosols). Prof. Hu has undertaken various research projects supported by multiple agencies. Prof. Hu with her team have published more than 100 research papers in Proceedings of The National Academy of Sciences, Water Research, Environmental Science & Technology, Environmental Pollution, and Applied and Environmental Microbiology, among others.
Daniel Kammen

Class of 1935 Distinguished Professor of Energy, Professor and Chair of the Energy and Resources Group, University of California, Berkeley

Prof. Kammen focuses on energy systems science in the context of decarbonizing the energy systems. He is the founding director of the Renewable and Appropriate Energy Laboratory (RAEL). He was appointed by then Secretary of State Hilary Clinton in 2010 as the first energy fellow of the Environment and Climate Partnership for the Americas (ECPA) initiative. He began service as the Science Envoy for U. S. Secretary of State John Kerry in 2016, but resigned over President Trump’s policies in 2017. He has served the State of California and US federal government in expert and advisory capacities. At UC Berkeley Kammen is also a Professor in the Goldman School of Public Policy, and Professor of Nuclear Engineering.

Maria Carmen Lemos

Professor and Associate Dean for Research, School for Environment and Sustainability, University of Michigan

Prof. Lemos' broad research interests are related to climate adaptation and the role of knowledge in building adaptive capacity. She was a lead author of the Intergovernmental Panel on Climate Change (IPCC-AR5) and the Fourth US National Climate Assessment (NCA4), contribute to IPCC-AR4, and has served in a number of the US National Research Council of the National Academies of Sciences committees.

Fudong Liu

Assistant Professor, Department of Civil, Environmental and Construction Engineering, University of Central Florida

Prof. Liu’s research interests mainly focus on environmental catalysis for pollution control and energy conversion. He received the 2010 CAS President Scholarship, 2011 CAS Excellent Doctoral Dissertation Award, 2012 International Association of Catalysis Societies (IACS) Young Scientist Award, 2013 Lu Jiaxi Young Talent Award, 2014 National Science & Technology Progress Award (2nd Class), and 2019 National Natural Science Award (2nd Class), China.
**Jianguo “Jack” Liu**

Rachel Carson Chair in Sustainability and University Distinguished Professor, Michigan State University

Prof. Liu’s research includes coupled human and natural systems (CHANS), sustainability, telecoupling, China’s environment, household-environment interactions and systems integration and modeling. He is the director of the Center for Systems Integration and Sustainability and founder of the International Network of Research on Coupled Human and Natural Systems (CHANS-Net.org). He is an elected member of the American Academy of Arts and Sciences, and received the Guggenheim Fellowship Award, National Science Foundation CAREER Award, and the Aldo Leopold Leadership Fellowship and Sustainability Science Award from the Ecological Society of America.

**Nancy G. Love**

Borchardt and Glysson Collegiate Professor, University of Michigan

Prof. Love focuses on assessing and advancing public and environmental health using chemical, biological and analytical approaches applied to water systems using both physical experiments and computational models. She emphasizes interdisciplinarity and critical thinking in students; consequently, many of her students are co-advised across disciplines and sectors and gain a broad range of professional skills in return. She is a Fellow of Water Environment Federation, International Water Association, and Association of Environmental Engineering and Science Professors.

**Yonglong Lu**

Distinguished Professor and Deputy Director, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Prof. Lu is an elected Fellow of TWAS (The World Academy of Sciences), and foreign member of Academia Europaea; President of Pacific Science Association (PSA); Member of UNEP International Resource Panel; and Vice President, Ecological Society of China. His research areas include environmental ecology and sustainability science. He has published 16 books and more than 340 papers in peer reviewed journals such as Science, Nature, and Science Advances. He is an Associate Editor of Science Advances and the founding Editor-in-Chief of Ecosystem Health and Sustainability.
Denise L. Mauzerall
Professor, Woodrow Wilson School of Public and International Affairs and Department of Civil and Environmental Engineering, Princeton University

Prof. Mauzerall’s research examines linkages between air pollution origin, transport and impacts, including impacts on human health, food security, and climate change. She served on the U.S. Environmental Protection Agency’s chartered Science Advisory Board from 2014-2017, is on the executive advisory board for the Institute of Advanced Sustainability Studies in Potsdam, Germany, spoke at the World Economic Forum in Davos, and has been a contributing author to the Intergovernmental Panel on Climate Change. At Princeton she directs the PhD program in the Woodrow Wilson School and is a core professor in the Center for Policy Research on Energy and Environment.

Shelie Miller
Jonathan W. Bulkley Collegiate Professor, University of Michigan

Prof. Miller's research uses life cycle assessment and scenario modeling to identify environmental problems before they occur. By proactively understanding the environmental issues of emerging technologies, a greater number of options and more creative solutions are identified to avoid or reduce negative consequences. Prof. Miller received the National Science Foundation CAREER Award, the Presidential Early Career Award for Scientists and Engineers (PECASE), the Kavli Frontiers Fellowship from the National Academy of Sciences, and Jefferson Science Fellowship from the National Academies.

Zhiyun Ouyang
Professor and Director, Research Center for Eco-Environmental Sciences, Chinese Academy of sciences

Prof. Ouyang's research focuses on ecosystem assessment, ecosystem services, ecosystem restoration, and biodiversity conservation. Examples at the national scale include China’s national ecosystem survey and assessment, mainstreaming ecosystem services in national key ecological functional area identification, and national park network planning. Prof. Ouyang is the President of the Ecological Society of China, and the Vice-President of the Ecological Economic Society of China.
Jonathan T. Overpeck

Samuel A. Graham Dean and William B. Stapp Collegiate Professor, School for Environment and Sustainability, University of Michigan

Dean Overpeck is an interdisciplinary climate scientist. He has written over 210 published works on climate and the environmental sciences, served as a Working Group 1 Coordinating Lead Author for the Nobel Prize winning IPCC 4th Assessment (2007), and also as a Working Group 2 Lead Author for the IPCC 5th Assessment (2014). He received the US Dept. of Commerce Gold and Bronze Medals, a Guggenheim Fellowship, the Walter Orr Roberts award of the American Meteorological Society, and the Quivira Coalition’s Radical Center Award for his work with rural ranchers and land managers. He has appeared and testified before Congress multiple times, and is a Fellow of American Geophysical Union and the American Association for the Advancement of Science.

Wei Peng

Assistant Professor of International Affairs and Civil and Environmental Engineering, Pennsylvania State University

Dr. Peng’s research focuses on the environmental and socioeconomic impacts of energy policies in both emerging markets and advanced economies. Her research has been published in *Proceedings of the National Academy of Sciences, Nature Energy, Nature Sustainability*, and many others. She was a Giorgio Ruffolo Postdoctoral Research Fellow at Harvard University’s Kennedy School of Government.

Anu Ramaswami

Professor and Director of M.S. Chadha Center for Global India, Princeton University

Prof. Ramaswami’s research spans environmental modeling, environmental technologies, industrial ecology, sustainable infrastructure design, urban systems analysis, and integration of science and technology with policy and planning for real-world implementation in communities. She is among the leading scholars on sustainable urban infrastructure and has seen her work adopted as policies and protocols for developing sustainable cities in the United States and internationally. Prof. Ramaswami is a member of the United Nations International Resource Panel and the National Science Foundation’s Advisory Committee for Environmental Research and Education.
**Hongqiang Ren**
Professor and Dean, School of the Environment, Nanjing University

Prof. Ren focuses on wastewater treatment engineering and environmental biotechnology. He serves as the chairman of Specialized Committee of Industrial Water Reuse of International Organization for Standardization (ISO TC282/SC4), the director of Water Treatment and Water Environment Rehabilitation Engineering Technology Center (Ministry of Education, China), the director of Research Institute of Water Pollution Control and Resource Reuse Engineering Technology (JITRI, China), the vice chairman of National Innovation Strategic Alliance of Energy-Saving Water Treatment Equipment Technology (China), and the director of the Specialized Committee on Water Environmental Engineering Technology Standardization of China Quality Supervision and Inspection Association.

**Aijie Wang**
Professor, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

Prof. Wang is specialized in water pollution control and resource recovery, which includes bio-based technology for highly efficient wastewater treatment and water reclamation, augmented bioremediation of polluted aquatic environment and waste organic recycling and resource recovery. A well-recognized feature of her researches is the effective integration of fundamental (interdisciplinary) and practically applicable research. Her research achievements have been demonstrated with multiple awards, including the National Science and Technology Progress Awards in 2004, 2007 and 2010, and China Industry-Academic Cooperation and Innovation Award in 2015.

**Michael White**
Senior Editor, *Nature*

Dr. White is the *Nature’s* editor for climate science. He joint *Nature* in 2008, after an academic career focusing on land surface phenology, the terrestrial carbon cycle, and climate impacts. Dr. White handles all of the physical science submissions on atmospheres, oceans, the cryosphere and hydrology – past, present and future, on Earth and other planets. He also works closely with *Nature’s* editors on biogeoscience and ecology.
Brad Wible
Senior Editor for Policy and Education, *Science*
Dr. Wible is a Senior Editor at *Science* magazine, where he is responsible for policy commentary. Prior to *Science* he worked in science policy at the National Institutes of Health and the American Association for the Advancement of Science, and in communications and administration at the Kellogg School of Management at Northwestern University. He holds a BS in physics from Drexel University and PhD in neuroscience from Northwestern University.

Ye Wu
Professor and Associate Dean, School of Environment, Tsinghua University
Prof. Wu’s major research areas include life-cycle analysis of advanced vehicle technologies and alternative fuels; and vehicle emission control. He is the member of Standardization Committee of Coal-based Fuels in China, Advance Motor Fuel Partnership of International Energy Agency, and Society of Automotive Engineers. Dr. Wu is the principal investigator for developing the big-data platforms in China for green transportation and regional/urban vehicle emission control and planning. So far he has published more than 100 papers and served as the leading author for more than 10 software patents.

Shangbao Yang
Deputy Director of the Central Committee of Energy, Resource and Environment, China Democratic National Construction Association
Dr. Yang has worked for Ma An Shan Iron and Steel Company for four years. He has served as Deputy Governor in the State Economic and Trade Commission and the National Development and Reform Commission. He is currently the Director of the Integrated Utilization Division of the Environmental Resources Division of the National Development and Reform Commission and Deputy Director of the Energy and Resources Environment Commission of the Central Committee for the Construction of China.
Junfeng (Jim) Zhang
Professor, Nicolas School of the Environment, Duke University

Prof. Zhang’s research includes developing novel biomarkers of human exposure and health effects, assessing health and climate co-benefits of air pollution interventions, and examining biological mechanisms by which environmental exposures exert adverse health effects. Prof. Zhang has led a number of international collaborations to study air pollution health effects and underlying pathophysiologic mechanisms. He is a Fellow of the American Association for the Advancement of Science and the 2012 recipient of the Jeremy Wesolowski Award, the highest award of the International Society of Exposure Science.

Chunmiao Zheng
Chair Professor and Vice Provost for Global Strategies, Southern University of Science and Technology

Prof. Zheng joined Southern University of Science and Technology in Shenzhen, China as Chair Professor and Founding Dean of the School of Environmental Science and Engineering in 2015. Previously, he was Chair Professor and Director of the Institute of Water Sciences at Peking University, and the George Lindahl III Endowed Professor at the University of Alabama. His research interests include contaminant transport in the environment and sustainability of groundwater resources. He is a fellow of American Geophysical Union and recipient of several prestigious awards and honors, including the O.E. Meinzer Award from the Geological Society of America and the M. King Hubbert Award from the National Ground Water Association.

Bing Zhu
Professor and Director, Institute for Circular Economy, Tsinghua University

Prof. Zhu's research interests include resource efficiency, circular economy, and chemical and energy techno-economics. Prof. Zhu is a Member of United Nations International Resource Panel (IRP) and a Member of Inter-Ministerial Panel of China on Circular Economy.
**Tong Zhu**

Professor and Dean, College of Environmental Sciences and Engineering, Peking University

Prof. Zhu’s research interests are in transport and chemical transformation of pollutants in the atmosphere, health effects of air pollutants, and urban air pollution control. He has served as a Co-Chair of the International Global Atmospheric Chemistry (IGAC) Scientific Steering Committee (2009-2012), a chair of Monsoon Asia Integrated Research for Sustainability (MAIRS) Scientific Steering Committee (2018-), and an associate editor of Environmental Health Perspective (2013-). He is one of the most cited Chinese researchers in Environmental Sciences since 2014 by Elsevier, a Princeton University Global Scholar (2012-2015), and a Fellow of American Geophysical Union.
Organizing Committee

Ming Xu (Chair)
Associate Professor and Director of China Programs, School for Environment and Sustainability, University of Michigan

Prof. Xu focuses on the broad fields of sustainable engineering and industrial ecology. He received the Robert A. Laudise Medal from International Society for Industrial Ecology for “outstanding achievement in industrial ecology by a researcher under the age of 36” in 2015 and the US National Science Foundation Faculty Early Career Development (CAREER) Award in 2016. He serves as Editor-in-Chief of Resources, Conservation & Recycling. He was elected to Chair the 2022 Gordon Research Conference on Industrial Ecology.

Chuanwu Xi (Co-Chair)
Professors of Environmental Health Sciences & Global Public Health, School of Public Health, University of Michigan

Dr. Xi is a professor of Environmental Health Sciences, professor of Global Public Health and director of Global Environmental Health in the Department of Environmental Health Sciences. Prof. Xi’s research focuses on biofilms, water quality and treatment, and human health and he studied the impact of urban water cycle on human health in several countries including China, U.S., Peru, Qatar. Dr. Xi was a Scholar-in-Residence at US FDA and a chair and council of Division Q of American Society for Microbiology. Dr. Xi currently serves as co-director of U-M-BICI Collaboratory, a board member of Council of Public Health Consultants of NSF International, and an editorial board member of Applied and Environmental Microbiology.
**Mary Gallagher**

Amy and Alan Lowenstein Professor, Director of Lieberthal-Rogel Center for Chinese Studies, University of Michigan

Prof. Gallagher’s research areas are Chinese politics, comparative politics of transitional and developing states, and law and society. The underlying question that drives her research in all of these areas is whether the development of markets is linked to the sequential development of democratic politics and legal rationality. She was a Fulbright Research Scholar at East China University of Politics and Law in Shanghai, China. She was part of the public intellectual program for the National Committee on US-China Relations, a program that brought together academics and policy makers working on US-China relations.

**Jonathan T. Overpeck**

Samuel A. Graham Dean and William B. Stapp Collegiate Professor, School for Environment and Sustainability, University of Michigan

Dean Overpeck is an interdisciplinary climate scientist. He has written over 210 published works on climate and the environmental sciences, served as a Working Group 1 Coordinating Lead Author for the Nobel Prize winning IPCC 4th Assessment (2007), and also as a Working Group 2 Lead Author for the IPCC 5th Assessment (2014). He received the US Dept. of Commerce Gold and Bronze Medals, a Guggenheim Fellowship, the Walter Orr Roberts award of the American Meteorological Society, and the Quivira Coalition’s Radical Center Award for his work with rural ranchers and land managers. He has appeared and testified before Congress multiple times, and is a Fellow of American Geophysical Union and the American Association for the Advancement of Science.

**Xun (Brian) Wu**

Associate Professor, Ross School of Business, University of Michigan

Prof. Wu is the Michael R. and Mary Kay Hallman Fellow and faculty director of China Initiatives at the Ross School of Business at the University of Michigan. His research examines the dynamics of corporate scope and the evolution of industries. He serves as an Associate Editor for *Strategic Management Journal*, and serves on the Academic Committee of Alibaba Group Research Institute. He was named one of Poets & Quants' best 40 business school professors under 40 in 2016.
Airport to Campus

1) Taxis or Uber/Lyft
Taxis or Uber/Lyft are the fastest way to get to Ann Arbor and University of Michigan. In normal traffic condition, it takes about 35 min from the airport to the campus for about $50.

2) Michigan Flyer
Michigan Flyer is a reliable motorcoach connections between Ann Arbor and the Detroit Metropolitan Airport at affordable rates (One way ticket is $15). It has stops at the North Terminal and McNamara Terminal and offers 12-13 round trips (about an hour) a day. You can book a ticket in advance depending on your boarding point through the website [www.michiganflyer.com](http://www.michiganflyer.com). The detail of the schedule can be found through this website. The flyer will arrive at Blake Transit Center (Central Campus of UM) in about 1-hour.

3) Ann Arbor Airport Shuttle
Ann Arbor Airport Shuttle Inc. provides door to door shuttle service and vans for groups up to nine passengers. Private rides are also available. 24 hour call ahead. Price: $35 one way; $60 roundtrip one passenger; group rates available.
Phone: 734-394-1665
Web: [www.annarborairportshuttle.net](http://www.annarborairportshuttle.net)

4) Other shuttle options
Other options can be found through the website: [http://www.onsp.umich.edu/docs/Airport%20Transportation.pdf](http://www.onsp.umich.edu/docs/Airport%20Transportation.pdf)
Visitor parking rate is $1.80 per hour.
Buses transporting UCSF@UM attendees to Central Campus in the afternoon will be parked outside of Entrance 1.
Restaurants

Near Plymouth Road

Cardamom Restaurant
Colorful eatery offering Indian fare
4.4 ★★★★★ 1,160 reviews - $$

No Thai
No-fuss spot for quick Thai dishes
4.1 ★★★★☆ 491 reviews - $$

Sae a Restaurant
Modern spot for Pan-Asian cuisine
4.1 ★★★★☆ 173 reviews - $$$

Downtown, Ann Arbor

Frita Batidos
Cuban street eats & patio tables
4.7 ★★★★★ 2,313 reviews

Mani Osteria and Bar
Wine menus for small plates & pizza
4.5 ★★★★★ 1,034 reviews - $$

Kozy Janis Bimpy Burger
Local standby for burgers & sandwiches
4.3 ★★★★☆ 924 reviews - $-

Real Seafood Company Ann Arbor
Local seaford spot with bar specials
4.2 ★★★★☆ 951 reviews - $$$$

Sawas
Sophisticated locale for farm-to-table food
4.4 ★★★★☆ 1,492 reviews - $$
Transport to UCESF@UM from Local Hotels


Download the DoubleMap App on your smartphone to find real-time bus information and plan your trips: https://mbus.doublemap.com.

1. **Graduate Ann Arbor**
   1) Bus Route:
   University Bus-Northwood (To Northwood V, every 10 min): Get on the bus on 7:56 am at Power center. Get off at Pierpont Commons. (about 17 minutes)
   2) Uber or Lyft: about $8

2. **Bell Tower Hotel**
   1) Bus Route:
   University bus-Northwood (To Northwood V, every 10 min): Get on the bus on 7:56 am at Power center. Get off at Pierpont Commons. (about 15 minutes)
   2) Uber or Lyft: about $8

3. **Residence Inn Ann Arbor Downtown**
   1) Bus Route:
   The Ride bus No.91 (To University Hospital, every 30 min) + University bus-Northwood (To Northwood V, every 10 min): Get on the bus on 7:38 am at Huron+Main, then transit to University Bus (Northwood V) at Zina Pitcher, get off at Pierpont Commons.
   2) Uber or Lyft: about $8-$10
4. **Inn at the League**
   1) **Bus Route:**
   University Bus-Northwood (To Northwood V, every 10 min): Get on the bus on 7:53 am at **Power Center**. Get off at **Pierpont Commons**. (about 13 minutes)
   2) Uber or Lyft: about $8-$9

5. **Ross School of Business Executive Learning and Conference Center**
   1) **Bus Route:**
   University Bus-Commuter North (To Glazier way, North, every 10 min): Get on the bus on 7:56 am at **Law School**. Get off at **Pierpont Commons**. (about 22 minutes)
   2) Uber or Lyft: about $8-$9

6. **Ann Arbor Bed and Breakfast Inn**
   1) **Bus Route:**
   University Bus-Northwood (To Northwood V, every 10 min): Get on the bus on 8:06 am at **Power Center**. Get off at **Pierpont Commons**. (about 11 minutes)
   2) Uber or Lyft: about $8-$9

7. **Hampton Inn Ann Arbor North**
   1) **Bus Route:**
   The Ride bus No.66 (Meijer (Carpenter Rd), every 30 min): Walk (about 12 min) to **Green Rd Park n Ride** on 8:05 am and get off at **N-Bonisteel east of Murfin**. (about 18 minutes)
   2) Uber or Lyft: about $8-$9
8. **Residence Inn Ann Arbor North**
   1) **Bus Route:**
      The Ride bus No.66 (Meijer (Carpenter Rd), every 30 min): Walk (about 7 min) to **Green Rd Park n Ride** on 8:05 am and get off at **N-Bonisteel east of Murfin.** (about 14 minutes)
   2) Uber or Lyft: about $8-$9

9. **Microtel Inn & Suites by Wyndham Ann Arbor**
   1) **Bus Route:**
      The Ride bus No.66 (Meijer (Carpenter Rd), every 30 min): Walk (about 9 min) to **Green Rd Park n Ride** on 8:16 am and get off at **N-Bonisteel east of Murfin.** (about 16 minutes)
   2) Uber or Lyft: about $8-$9

10. **Red Roof Plus+ Ann Arbor - U of Michigan North**
    1) **Bus Route:**
       The Ride bus No.66 (Meijer (Carpenter Rd), every 30 min): Walk (about 11 min) to **Green Rd Park n Ride** on 8:16 am and get off at **N-Bonisteel east of Murfin.** (about 18 minutes)
    2) Uber or Lyft: about $8-$9

11. **Holiday Inn Ann Arbor Near U of M**
    1) **Bus Route:**
       The Ride bus No.66 (Meijer (Carpenter Rd), every 30 min): Walk (about 10 min) to **Green Rd Park n Ride** on 8:16 am and get off at **N-Bonisteel east of Murfin.** (about 17 minutes)
    2) Uber or Lyft: about $8-$9
12. **University Inn**

1) **Bus Route:**
   The Ride bus No.4 (To Blake Transit Center, every 30 min) + University bus-Northwood (To Northwood V, every 10 min): W walk (about 4 min) to **Washtenaw + Sheridan** on 7:36 am, get off at **Stockwell Hall Inbound** and walk to **Central Campus Transit Center** and take the University bus to **Pierpont Commons**. (about 34 minutes)

2) **Uber or Lyft:** about $11-$12
Important Notice

- The conference venues are located on North Campus of University of Michigan, Ann Arbor:
  - Pierpont Commons on North Campus (7:30am-5:30pm, October 1st and October 2nd).
  - Rackham Auditorium on Center Campus (6:00-7:30pm, October 1st).
  - Michigan League on Center Campus (6:00-8:00pm, October 2nd).
- Registration desk will be open during the entire conference at the outside of East Room, Pierpont Commons.
- Student volunteers will be available to guide transitions between conference venues.
- Poster presenters please arrive to the Poster Session as early as possible. Feel free to use any available poster board.

Emergency Contact

- Prof. Weihua Sun, Tel: +1 734-741-3486
- Dr. Chunyan Wang, Tel: +1 734-846-4051
- Mr. Bu Zhao, Tel: +1 734-834-1520
- Mr. Chenyang Shuai, Tel: +1 734-834-3648
- Email: seas-china-office@umich.edu