



May 19-20, 2018

Duke University, Durham

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Organizing Committee for the 2018 CESF



Partnership



Duke





2018 Chinese Environmental Scholars Forum | Duke University

Friday Evening – May 18, 2018

Pre-forum Event (optional)	
<i>Venue: 2nd Floor Common Area, Environment Hall</i>	
18:00 – 21:00	Welcome Dinner

Saturday Morning – May 19, 2018

Registration and Breakfast	
<i>Venue: 2nd Floor Common Area, Environment Hall</i>	
07:30 – 08:30	Registration, Continental Breakfast and Networking <i>Name Badges can be picked up at the registration desk</i>

Opening Session	
<i>Venue: Love Auditorium, Levine Science Research Center (LSRC)</i>	
08:30 – 08:45	<p>Welcome Remarks</p> <p>Jeffrey Vincent, <i>Nicholas School of the Environment, Duke University</i></p> <p>Brian Murray, <i>Duke University Energy Initiative, Duke University</i></p> <p>Junjie Zhang, <i>Environmental Research Center, Duke Kunshan University</i></p> <p>Mingquan Li, <i>President of the Organizing Committee for the 2018 CESF</i></p>
08:45 – 10:05	<p>Invited Speeches</p> <p>“Estimating Benefits and Costs of Policies Proposed in the 13th FYP to Improve Energy Efficiency and Reduce Air Emissions of China’s Electric Power Sector” Dalia Patiño-Echeverri, <i>Nicholas School of the Environment, Duke University</i></p> <p>“Application of High-Resolution Air Pollutant Emission Inventories” Shu Tao, <i>College of Urban and Environmental Sciences, Peking University</i></p> <p>“Fight Air Pollution: A Story of China” Jinnan Wang, <i>Chinese Academy for Environmental Planning</i></p> <p>“Air Quality and Climate Change in Global Cities: Immediate and Future Challenges” Tong Zhu, <i>College of Environmental Sciences and Engineering, Peking University</i></p>



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10:05 – 10:20	Group Photo (Hall of Science, outside Love Auditorium)
10:20 – 10:50	Networking Break <i>Refreshments are available outside Love Auditorium</i>
10:50 – 12:30	<p>Invited Speeches</p> <p>“Clean Power Development in the Context of Electricity Market Reform” Libo Wu, School of Economics & School of Data Science, Fudan University</p> <p>“Socio-economic Drivers of Air Pollution” Qiang Zhang, Center for Earth System Science, Tsinghua University</p> <p>“Combating Soil and Groundwater Contamination in China: Challenges and Perspectives” Chunmiao Zheng, School of Environmental Science and Engineering, Southern University of Science and Technology</p> <p>“Computational Toxicology: A Tool for Chemicals Risk Assessment” Jingwen Chen, School of Environmental Science and Technology, Dalian University of Technology</p> <p>“Silver Nanoparticles Induce Neurotoxicity in a Human Embryonic Stem Cell-derived Neuron and Astrocyte Network” Qingshun Li, College of the Environment and Ecology, Xiamen University</p>
12:30 – 14:00	Lunch <i>2nd Floor Common Area, Environment Hall</i>

Poster Session	
<i>Venue: 1st Floor, Environment Hall</i>	
12:30 – 18:00	Poster Session <i>Posters are displayed during lunch</i>



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Saturday Afternoon – May 19, 2018

Three Parallel Sessions		
Environmental Economics & Policy <i>Love Auditorium, LSRC</i>	Anthropogenic Activities & Climate Change <i>Field Auditorium, Environment Hall</i>	Environmental Science & Technology <i>Room 2102, Environment Hall</i>
<p>14:00 – 15:40</p> <p><i>Love Auditorium, LSRC</i></p>	<p>Environmental Economics & Policy - PART I</p> <p>“A General Synthesis of Environmental Justice”, Christopher D. Timmins, <i>Duke University</i></p> <p>“National Environmental Impacts of Reducing Global Dietary Health Risks”, Pan He, <i>University of Maryland</i></p> <p>“Trends of Air Pollution and Mortality Burden During 2006-2015 in the Pearl River Delta Region of South China”, Zhiyong Wu, <i>US Environmental Protection Agency</i></p> <p>“Gentrification and Residential Sorting: Reasons for Displacement and Environmental Injustice in Los Angeles”, Wen Wang, <i>Duke University</i></p> <p>“Residential Greenness and Mortality in a Prospective Cohort of Oldest-Olds in China”, John Ji, <i>Duke Kushan University</i></p>	
<p>14:00 – 15:40</p> <p><i>Field Auditorium, EH</i></p>	<p>Anthropogenic Activities & Climate Change – PART I</p> <p>“Responses of Hail and Storm Days to Climate Change in the Tibetan Plateau -- the World's Third Pole”, Wenhong Li, <i>Duke University</i></p> <p>“Is the Earth Browning or Greening? An Update Based on NASA's Recent Satellite Measurements”, Yulong Zhang, <i>University of North Carolina at Chapel Hill</i></p> <p>“Ecological Resilience of Peatlands”, Hongjun Wang, <i>Duke University</i></p> <p>“Air Quality and Health impacts in China: Ozone's Emergence in the Present and Future”, Karl Seltzer, <i>Duke University</i></p> <p>“Advance Low Carbon Future Through Local Climate Action - A Case Study in San Diego Region”, Yichao Gu, <i>University of San Diego</i></p>	



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<p>14:00 – 15:40</p> <p>Room 2102, EH</p>	<p>Environmental Science & Technology – PART I</p> <p>“The Water Footprint of Current and Future Hydraulic Fracturing and Unconventional Shale Gas Development in China”, Avner Vengosh, <i>Duke University</i></p> <p>“The Unravelling of Marine Microbial Food Web: Ecological and Biological Stories of Heterotrophic Marine Protists”, Guangyi Wang, <i>Tianjin University</i></p> <p>“Control Technology of UP-POPs During Thermal Process”, Yifei Sun, <i>Beihang University</i></p> <p>“The Dissemination and Control of Emerging Pollutants in Municipal Solid Waste Disposal”, Bing Xie, <i>East China Normal University</i></p> <p>“Rapid Cycling of Reactive Nitrogen in the Atmosphere”, Chunxiang Ye, <i>Peking University</i></p>
<p>15:40 – 16:30</p>	<p>Networking Break <i>Refreshments are available on the 2nd floor of Environment Hall</i></p>

* Three parallel sessions will be continued after the networking break.



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Three Parallel Sessions		
Environmental Economics & Policy <i>Love Auditorium, LSRC</i>	Anthropogenic Activities & Climate Change <i>Field Auditorium, Environment Hall</i>	Environmental Science & Technology <i>Room 2102, Environment Hall</i>
<p>16:30 – 18:10 <i>Love Auditorium, LSRC</i></p>	<p>Environmental Economics & Policy - PART II</p> <p>“Is U.S.-China Trade Imbalanced? Facts based analyses from Neo-classical Economics Perspective”, Tao Hu, <i>World Wildlife Fund</i></p> <p>“Does Emission Trading Policy Improve Regional Environmental Efficiency? Evidence from Panel Data Modeling of Different Provinces on PSM-DID Test”, Yifei Zhang, <i>Shanghai University of International Business and Economics</i></p> <p>“Valuing Health Risk Reductions from Air Quality Improvement: Evidence from a New Discrete Choice Experiment in China”, Yana Jin, <i>UNC-Chapel Hill</i></p> <p>“Comparison of Final-production-based Emissions and Production-based Emissions of Jing-Jin-Ji Megaregion in China”, Lixiao Xu, <i>Beijing Normal University</i></p> <p>“Causal Effects of China's Clean Air Action on Manufacturing Output and Labor Demand: Evidence from Quasi-experimental Studies”, Xiao Li, <i>Yale University</i></p> <p>“What is the Environmental Cost of Being the Most Foreign Exchange Reserve Country in the World? Environmental Impact Analysis of China's Trade and Investment”, Di Yang, <i>World Wildlife Fund</i></p>	
<p>16:30 – 18:10 <i>Field Auditorium, E H</i></p>	<p>Anthropogenic Activities & Climate Change – PART II</p> <p>“Brief Introduction of Shanghai Carbon Data Research Center”, Maohua Wang, Mingquan Wang, <i>Chinese Academy of Sciences</i></p> <p>“Impact of Climate Variability on Hydrological Resilience of a Coastal Wetland at Southeastern U.S.”, Yu Zhang, <i>Duke University</i></p> <p>“The Relationship Between Emissions and Economic Growth for SO₂, CO₂, and BC”, Muye Ru, <i>Duke University</i></p> <p>“Inter-comparison of Black Carbon Measurement Techniques Using Biomass Burning Smoke During the 2016 FIREX Campaign”, Hanyang Li, <i>The Ohio State University</i></p> <p>“Marine-Derived BVOCs Contribute to SOA Formation over Several Decades: Links of Marine Biota to Atmospheric Aerosol, Clouds, and Climate”, Tianqu Cui, <i>University of North Carolina at Chapel Hill</i></p>	



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<p>16:30 – 17:50</p> <p>Room 2102, EH</p>	<p>Environmental Science & Technology – PART II</p> <p>“Current Situation and Challenge of the Brownfield Site Remediation in China”, Xinde Cao, <i>Shanghai Jiao Tong University</i></p> <p>“Application of Novel Titanate Materials for Environmental Clean-up”, Wen Liu, <i>Peking University</i></p> <p>“Phylogenetic and Kinetic Study for Co-Treatment of Municipal Wastewater and Acid Mine Drainage Utilizing Sulfidogenic Bioreactors”, Dongyang Deng, <i>North Carolina A&T State University</i></p> <p>“Selective Removal of Sulfate from Saltwater Using a Novel Compositated Electrode in Capacitive Deionization”, Kuichang Zuo, <i>Rice University</i></p>
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Saturday Evening – May 19, 2018

Alumni Reunion Dinner (optional)	
18:10 – 21:00	Dinner self-organized by alumni from each university 中国高校校友海外联谊会





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Sunday Morning – May 20, 2018

Breakfast	
<i>Venue: 2nd Floor Common Area, Environment Hall</i>	
07:30 – 08:30	Continental Breakfast and Networking

Three Parallel Sessions		
Energy Economics & Policy <i>Love Auditorium, LSRC</i>	Pollution & Environmental Health <i>Field Auditorium, Environment Hall</i>	Belt and Road Initiative <i>Room 2102, Environment Hall</i>
<p style="text-align: center;">08:30 – 09:50</p> <p style="text-align: center;"><i>Love Auditorium, LSRC</i></p>	<p style="text-align: center;">Energy Economics & Policy - PART I</p> <p>“Does Time-of-use Pricing Impact Residential Energy Efficiency and Solar Panel Adoption?”, Yueming Qiu, <i>University of Maryland College Park</i></p> <p>“Will Shutting Down All Coal-Fired Power plants in Beijing Makes a Real Difference? An Integrated Assessment”, Shihui Zhang, <i>Tsinghua University</i></p> <p>“Atlantic Offshore Wind Energy Development: Values and Implications for Coastal Recreation”, Lingxiao Yan, <i>University of Delaware</i></p> <p>“Current and Future Electric Appliance Adoption in the Chinese Residential Sector”, Rui Shan, <i>Duke University</i></p>	
<p style="text-align: center;">08:30 – 09:50</p> <p style="text-align: center;"><i>Field Auditorium, EH</i></p>	<p style="text-align: center;">Pollution & Environmental Health – PART I</p> <p>“Global Health Impact of Today's Environment”, Jim Zhang, <i>Duke University</i></p> <p>“Cardio-pulmonary Responses to Walking on a Traffic-polluted Roadside in Healthy, Pulmonary and Cardiac Participants”, Jicheng Gong, <i>Peking University</i></p> <p>“Significantly Reduced Health Burden from Ambient Air Pollution in the United States under Emission Reductions from 1990 to 2016”, Yuqiang Zhang, <i>US Environmental Protection Agency</i></p> <p>“Long-term Exposure to Air Pollution, Traffic Proximity and Subclinical Atherosclerosis in a National Study of China”, Meng Wang, <i>University of Washington</i></p> <p>“A Novel Calibration Approach Using Satellite and Visibility Observations to Estimate Fine Particulate Matter Exposures in Iraq and Kuwait”, Jing Li, <i>Harvard University</i></p>	



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<p>08:30 – 09:50</p> <p>Room 2102, EH</p>	<p>Belt and Road Initiative <i>special theme sponsored by DKU</i></p> <p>“Green Belt and Road? The Role of Environmental NGOs”, Kathinka Fürst, <i>Duke Kunshan University</i></p> <p>“Constructing a Sustainable Belt and Road”, Elizabeth Losos, <i>Duke University</i></p> <p>“A biodiverse Belt and Road, for the Benefit of Environment and Local Communities”, Binbin Li, <i>Duke Kunshan University</i></p> <p>“Financing Green Belt & Road”, Donghui Liu, <i>Duke Kunshan University</i></p>
<p>09:50 – 10:50</p>	<p>Networking Break <i>Refreshments are available on the 2nd floor of Environment Hall</i></p>

* *Three parallel sessions will be continued after the networking break.*

<p>Poster Session</p>	
<p><i>Venue: 1st Floor, Environment Hall</i></p>	
<p>08:30 – 12:10</p>	<p>Poster Session</p>



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Three Parallel Sessions		
Energy Economics & Policy <i>Love Auditorium, LSRC</i>	Pollution & Environmental Health <i>Field Auditorium, Environment Hall</i>	New Environmental Governance <i>Room 2102, Environment Hall</i>
<p>10:50 – 12:10</p> <p><i>Love Auditorium, LSRC</i></p>	<p>Energy Economics & Policy - PART II</p> <p>“Integrated Assessment of Climate Mitigation Policy: the IMED Model and Its Application”, Hancheng Dai, <i>Peking University</i></p> <p>“What Drives CO₂ Emissions Across Regions? The Role of Non-renewable and Renewable Energy”, Kangyin Dong, <i>Rutgers University</i></p> <p>“The Impact of Climate Change on Residential Electricity Demand in China”, Yating Li, <i>Duke University</i></p> <p>“Embodied vs Direct CO₂ Emissions by Sector at a Global Scope”, Kehan He, <i>Yale University</i></p>	
<p>10:50 – 12:10</p> <p><i>Field Auditorium, EH</i></p>	<p>Pollution & Environmental Health – PART II</p> <p>“Nationwide Big-data Driven PM_{2.5} and NO₂ Exposure Models for China Based on Satellite Measurements, Land Use Regression, and Universal Kriging”, Hao Xu, <i>Tsinghua University</i></p> <p>“Dynamic Source-specific Health Risk Assessment of Beach Swimming from Exposure to Aging faecal Contamination with the Incorporation of Differential Microbial Decay Rates”, Baolei Wu, <i>University of Minnesota Twin Cities</i></p> <p>“Satellite-based Daily PM_{2.5} Estimates During Fire Seasons in Colorado”, Guannan Geng, <i>Emory University</i></p> <p>“The Effects of Melatonin on the Relationship Between Air Pollution Levels and Biomarkers of Oxidative Stress in Healthy Young Adults”, Linchen He, <i>Duke University</i></p>	



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<p>10:50 – 12:10</p> <p>Room 2102, EH</p>	<p>New Environmental Governance <i>special theme sponsored by DKU</i></p> <p>“Regulating Through Leverage: The Role of Chinese Environmental NGOs in Regulation of Industrial Pollution Risks”, Kathinka Fürst, <i>Duke Kunshan University</i></p> <p>“The Changing Organizational Landscape of Energy and Climate Change International NGOs in China”, Rachael Shwom, <i>Rutgers University</i></p> <p>“What Would Success Look Like for China’s New Ministry of Ecology and Environment?”, Jackson Ewing, <i>Duke University</i></p> <p>“Governance for Sustainable Development as a Virtual Dialogue”, Jiajing Bi, <i>University of Delaware</i></p>
<p>12:10 – 13:00</p>	<p>Lunch and Networking <i>Lunch are available on the 2nd floor of Environment Hall</i></p>





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Sunday Afternoon – May 20, 2018

Poster Lightning Talk	
<i>Venue: Love Auditorium, LSRC</i>	
13:00 – 13:15	One-minute Lightning Talk of Poster Presenters

Career Session	
<i>Venue: Love Auditorium, LSRC</i>	
13:15 – 16:00	<p>Presentations of Chinese University Representatives 高校人才招聘宣讲</p> <p>Duke Kunshan University Beihang University, School of Space and Environment Beijing Normal University, School of Environment Chinese Academy of Sciences, Shanghai Advanced Research Institute Dalian University of Technology, School of Environmental Science and Technology East China University of Science and Technology, School of Resources and Environmental Engineering East China Normal University, School of Ecological and Environmental Sciences Nanjing University, School of the Environment Peking University, College of Environmental Sciences and Engineering Shanghai Jiao Tong University, School of Environmental Science and Engineering South China University of Technology, School of Environment and Energy Southeast University, School of Energy and Environment Southern University of Science and Technology, School of Environmental Science and Engineering Tianjin University, School of Environmental Science and Engineering Xiamen University, College of the Environment and Ecology Zhejiang University, College of Environmental & Resource Sciences</p>
16:00 – 16:50	<p>Exhibition of registered university Hall of Science, LSRC</p>



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Closing Session	
<i>Venue: Love Auditorium, LSRC</i>	
16:50 – 17:05	Announcement of Winners of Oral Presentations and Posters
17:05 – 17:15	Announcement of the Host of 2019 CESF & Preach of 2019 CESF Hosting Committee
17:15 – 17:30	Closing Remark & Acknowledgements



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