



## Environmental Challenges and Agricultural Sustainability in Asia: Interlinkages and future implications

[Virtual conference; JST time zone, local time in Tokyo]

Day 1: December 8, 2021	
<b>9:30-9:40</b>	<b>Introduction/Technical Guidance/Photo Session</b> Dil Rahut, Senior Research Fellow, Asian Development Bank Institute (ADBI)
<b>9:40-9:50</b>	<b>Opening Remarks</b> Tetsushi Sonobe, Dean and CEO, ADBI
	<b>Chair</b> Sunae Kim, Natural Resources and Agriculture Specialist, South Asia Department, ADB
<b>9:50-10:40</b>	<b>Keynote Speech: Hunger and Environmental Goals for Asia: Synergies and trade-offs among the SDGs</b> <b>Prabhu Pingali and Milorad Plavšić</b> 9:50-10:20 Presenter: Prabhu Pingali, Professor, Cornell University 10:20-10:30 Discussant: Ratna Reddy Vippala, Director, Livelihoods and Natural Resources Management Institute 10:30-10:40 Q&A
<b>10:40-11:05</b>	<b>Assessment of adaptive capacity and adaptation to climate change in the farming households of Eastern-Himalayan foothills of West Bengal, India</b> <b>Pritha Datta and Bhagirath Behera</b> 10:40-10:55 Presenter: Pritha Datta, PhD Scholar, Indian Institute of Technology Kharagpur 10:55-11:05 Discussant: Tshering Samdrup, PhD Scholar, The University of Western Australia 11:05-11:15 Q&A
<b>11:15-11:25</b>	<b>Break</b>
<b>11:25-12:00</b>	<b>Climate change, climatic extremes, and households' food consumption in Bangladesh: A longitudinal data analysis</b> <b>Saiful Mohammad Islam, Sovannroeun Samreth, AHM Saiful Islam, Masayuki Sato</b> 11:25-11:40 Presenter: Saiful Mohammad Islam, PhD Fellow, Kobe University 11:40-11:50 Discussant: Sofina Maharjan, PhD Candidate, University of Western Australia 11:50-12:00 Q&A
<b>12:00-12:35</b>	<b>Smallholder adaptation to flood risks: Adoption and impact of Swarna-Sub1 in eastern India</b> <b>Prabhakaran T. Raghu, Prakashan Chellattan Veetil, and Sukanya Das</b> 12:00-12:15 Prabhakaran T. Raghu, PhD Student, TERI School of Advanced Studies 12:15-12:25 Discussant: Fatih Kirşanlı, Graduate Teaching Instructor, Colorado State University 12:25-12:35 Q&A
<b>12:35-13:10</b>	<b>An assessment of rice households' livelihoods in Nghe An province of Vietnam</b> <b>Phuong T. Tran, Bien T. Vu, Son T. Ngo, Vien D. Tran, and Tien D. Ho Nguyen</b> 12:35-12:50 Presenter: Tien Diem Ho Nguyen, Lecturer, Tien Giang University 12:50-13:00 Discussant: Madhusmita Dash, Assistant Professor, Indian Institute of Technology Bhubaneswar 13:00-13:10 Q&A



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Day 2: December 9, 2021	
<b>12:45-12:55</b>	<b>Introduction/Technical Guidance/Photo Session</b> Dil Rahut, Senior Research Fellow, Asian Development Bank Institute (ADBI), Japan
	<b>Chair</b> Panharoth Chhay, Research Associate, ADBI
<b>12:55-13:25</b>	<b>Keynote Speech</b> 12:55-13:15 Jean Balié, Director General, International Rice Research Institute 13:15-13:25 Q&A
<b>13:25-14:00</b>	<b>Managing drought risks with drought-stress tolerant rice varieties and its impacts on yield and production risk</b> <b>Jeetendra Prakash Aryal and Dil Rahut</b> 13:25-13:40 Presenter: Jeetendra Aryal, Consultant (Economist), ADBI 13:40-13:50 Discussant: Bhagirath Behera, Professor, Indian Institute of Technology Kharagpur 13:50-14:00 Q&A
<b>14:00-14:35</b>	<b>A comprehensive review on grain legumes as climate-smart crops: challenges and prospects</b> <b>Asik Dutta, Ankita Trivedi, Chaitanya P. Nath, Debjyoti Sen Gupta, and Kali Krishna Hazra</b> 14:00-14:15 Presenter: Asik Dutta, Scientist, ICAR-Indian Institute of Pulses Research 14:15-14:25 Discussant: Sokcheng Sim, Researcher, Cambodian Development Resource Institute (CDRI) 14:25-14:35 Q&A
<b>14:35-14:45</b>	<b>Break</b>
<b>14:45-15:20</b>	<b>Conservation agriculture for increasing productivity, profitability, and water productivity in rice-wheat system of the Eastern Gangetic Plain</b> <b>Shikha Thapa Magar, Jagadish Timsina, Krishna Prasad Devkota, Liang Weili, Neeranjan Rajbhandari</b> 14:45-15:00 Presenters: Shikha Thapa Magar, Post Doc, Hebei Agricultural University 15:00-15:10 Discussant: Kumar Satheesh, Adjunct professor, Manipal Academy of Higher Education 15:10-15:20 Q&A
<b>15:20-15:55</b>	<b>Rice variety and sustainable farming: A case of Mekong Delta in Vietnam</b> <b>Le Canh Bich Tho and Chieko Umetsu</b> 15:20-15:35 Presenter: Le Canh Bich Tho, PhD Student, Kyoto University 15:35-15:45 Discussant: Shikha Thapa Magar, Post Doc, Hebei Agricultural University 15:45-15:55 Q&A
<b>15:55-16:05</b>	<b>Break</b>
<b>16:05-16:40</b>	<b>Impacts of Shock and Risk Attitude on Farming: Evidence from Rice Farmers in Thailand</b> <b>Trung Thanh Nguyen, Manh Hung Do, and Dil Rahut</b> 16:05-16:20 Presenter: Trung Thanh Nguyen, Associate Professor, Leibniz University Hannover (LUH) 16:20-16:30 Discussant: Vathana Roth, Director, Development Economics and Trade, Cambodia Development Resource Institute 16:30-16:40 Q&A
<b>16:40-17:15</b>	<b>Spatio-Temporal Assessment of Agro-Climatic Indices and the Monsoon Pattern in the Banas River Basin, India</b> <b>Akanksha Rani, Devesh Sharma, Mukand S Babel, and Aditya Sharma</b> 16:40-16:55 Presenter: Devesh Sharma, Associate Professor, Central University of Rajasthan

16:55-17:05 Discussant: Ihtiyor Bobojonov, Research Associate, Leibniz Institute of Agriculture Development in Transition Economies (IAMO)

17:05-17:15 Q&A

**17:15-17:50 Spatial Patterns of Fertilizer Use and Imbalances in Indian Agriculture  
Kaushik Bora**

17:15-17:30 Presenter: Kaushik Bora, Senior Research Fellow, Indian Statistical Institute, Bangalore

17:30-17:40 Discussant: Prakashan Chellattan Veetil, Agricultural Economist, International Rice Research Institute (IRRI)

17:40-17:50 Q&A



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Day 3: December 10, 2021	
<b>9:30-9:40</b>	<b>Introduction/Technical Guidance/Photo Session</b> Dil Rahut, Sr Research Fellow, Asian Development Bank Institute (ADBI), Japan
	<b>Chair</b> Jeetendra Aryal, Consultant (Economist), ADBI
<b>9:40-10:15</b>	<b>Keynote Speech: Mitigation in Agriculture: Lessons from the Energy Sector and Perspectives Looking Forward</b> <b>Channing Arndt, Doug Arent, Faaiga Hartley, Bruno Merven, and Alam Hossain Mondal</b> 9:40-10:05 Channing Arndt, Director, Environment and Production Technology Division International Food Policy Research Institute 10:05-10:15 Q&A
<b>10:15-10:50</b>	<b>Role of Institutional Factors in Climate-Smart Technology Adoption in Agriculture: Evidence from an Eastern Indian State</b> <b>Purna Tanti, Pradyot Jena, Jeetendra Aryal, and Dil Rahut</b> 10:15-10:30 Presenter: Pradyot Jena, Associate Professor, National Institute of Technology Karnataka 10:30-10:40 Discussant: Sonam Tashi, Associate Professor, Royal University of Bhutan 10:40-10:50 Q&A
<b>10:50-11:25</b>	<b>Productivity Growth in Indian Agriculture and its Determinants</b> <b>Souryabrata Mohapatra, Basil Sharp, Auro Kumar Sahoo, and Dukhabandhu Sahoo</b> 10:50-11:05 Presenter: Souryabrata Mohapatra, PhD Candidate, The University of Auckland 11:05-11:15 Discussant: Bhavya Sinha, PhD Student, Colorado State University 11:15-11:25 Q&A
<b>11:25-11:35</b>	<b>Break</b>
<b>11:35-12:10</b>	<b>Strategies to admittance soil quality using mid-infrared (mid-IR) spectroscopy an alternate tool for conventional lab analysis: a global perspective</b> <b>Debabrata Nath, Ranjan Laik, Vijay Singh Meena, Vandana Kumari, Biswajit Pramanick, Santosh Kumar Singh</b> 11:35-11:50 Presenter: Vijay Singh Meena, Project Coordinator, Borlaug Institute for South Asia (CIMMYT-BISA) 11:50-12:00 Discussant: Ashar Awan, Research Scholar, Erciyes University 12:00-12:10 Q&A
<b>12:10-12:45</b>	<b>Techno-Economic Assessment of Agricultural Land Remediation Measures Through Nutrient Management Practices to Achieve Sustainable Agricultural Production</b> <b>Madhav Gholkar, Pradnya Thombare, Upasana Koli, and Nitin Kumbhar</b> 12:10-12:25 Presenter: Madhav Gholkar, Senior Researcher, Watershed Organisation Trust (WOTR) 12:25-12:35 Discussant: Vijay Singh Meena, Project Coordinator, Borlaug Institute for South Asia (CIMMYT-BISA) 12:35-12:45 Q&A
<b>12:45-13:20</b>	<b>An Empirical Assessment of the Interactive Impacts of Irrigation and Climate on Farm Productivity in Uzbekistan</b> <b>Sherzod Babakholov, Ihtiyor Bobojonov, Shavkat Hasanov, and Thomas Glauben</b> 12:45-13:00 Presenter: Sherzod Babakholov, PhD Student, Tashkent State Agrarian University 13:00-13:10 Discussant: Ashish Sedai, Graduate Research Associate, Colorado State University 13:10-13:20 Q&A
<b>13:20-13:30</b>	<b>Concluding Remarks</b> Peter Morgan, Vice-Chair Research, ADBI