

INSEE-IIITD

International Conference 2021

The Eleventh Biennial Conference of INSEE
December 15-17, 2021

Sustainable Societies,
Ecological Systems
and Economic Development

Conference Programme

INSEE

INDIAN SOCIETY FOR
ECOLOGICAL ECONOMICS



INDRAPRASTHA INSTITUTE *of*
INFORMATION TECHNOLOGY
DELHI

Visit <https://ecoinsee.org/insee-conference-2021> for additional information

INSEE-IIITD
International Conference 2021

The eleventh biennial conference of INSEE

December 15-17, 2021

The Indian Society for Ecological Economics (INSEE)
and
Indraprastha Institute of Informational Technology Delhi (IIITD)

General Information

Registration

The conference will be held online through Zoom from December 15 to 17, 2021. Participants must register by filling out a [Google Form](#). Zoom meeting links for plenary lectures and parallel sessions will be shared **only after registration**.

Programme Overview

All times are in Indian Standard Time (IST). For titles of talks and other details please consult the relevant day's programme.

Time	Day One - Dec 15 th 2021
09:00-09:30	Inaugural Session
09:30-11:00	Plenary Lecture: David Simpson
11:30-13:00	Plenary Lecture: Madhu Khanna
14:00-16:00	Parallel Sessions - I
16:30-18:00	INSEE-SANDEE Karl-Göran Mäler Lecture
18:00-19:00	Social Event (online)

Time	Day Two - Dec 16 th 2021
09:30-11:00	Plenary Lecture: Matthew E. Kahn
11:30-13:00	Plenary Lecture: Madhu Khanna
14:00-16:00	Parallel Sessions - II
16:00-18:00	Parallel Sessions - III

Time	Day Three - Dec 17 th 2021
09:30-11:00	Plenary Lecture: David Simpson
11:15-13:15	Parallel Sessions - IV
13:45-14:00	Editor's Report – INSEE Journal
14:00-15:30	Parallel Sessions – V
15:30-17:00	Plenary Lecture: Francesco Vona
17:00-17:30	Valedictory Session

Time	Post Conference Workshop - Dec 18 th 2021
10:00-17:30	Behavioral Economics

DAY ONE — WEDNESDAY, DEC 15, 2021

Inaugural Session

9:00-9:30

Speakers:

- Shreekant Gupta, President, Indian Society for Ecological Economics (INSEE)
- Ranjan Bose, Director, Indraprastha Institute of Information Technology Delhi (IIIT-Delhi)
- Joshua Farley, President, International Society for Ecological Economics (ISEE)
- Malavika Chauhan, Head, Rural Upliftment Portfolio, TATA Trusts, India

Plenary Lectures

9:30-11:00

- Valuation of Ecosystem Services.
David Simpson, *American University, Washington DC*
Chair: Bhim Adhikari, *International Development Research Centre, Ottawa*

11:30-13:00

- Promoting Corporate Social Responsibility in Asia: Opportunities and Challenges.
Madhu Khanna, *University of Illinois, Urbana-Champaign*
President, Applied and Agricultural Economics Association
Chair: B.N. Goldar, *Institute of Economic Growth (retired)*

16:30-18:00

- INSEE-SANDEE Karl Göran Mäler Memorial Lecture
Sir Partha Dasgupta, *Cambridge University*
Chair: Pushpam Kumar, United Nations Environment Programme

Parallel Sessions - I (All times in IST)

Air Pollution and Health

(Session 01)

14:00-16:00, December 15

Chair: Neha Khanna, *Binghampton University*

- **Coal Plants, Air Pollution and Anemia: Evidence from India**
Gaurav Datt (Monash U), Pushkar Maitra (Monash U), Nidhiya Menon (Brandeis U), Ranjan Ray (Monash U)
Discussant: Nitya Mittal, University of Göttingen
- **Does Traffic Congestion Pose Health Hazards? Evidence From A Highly Congested And Polluted City**
Kanishka Kacker (Indian Statistical Institute Delhi), Ridhima Gupta (South Asian University), Saif Ali (IIIT-Delhi)
Discussant: Geetam Tiwari, IIT Delhi
- **Who benefited from cleaner air during COVID-19 lockdowns in the United States?**
Ancilla Marie Inocenio (Binghamton U), Neha Khanna (Binghamton U)
Discussant: Archana Dang, Institute of Economic Growth

Economics of Groundwater Extraction and Policy - I

(Session 02)

14:00-16:00, December 15

Chair: K.J. Joy, *Society for Promoting Participative Ecosystem Management*

- **Can Cash Incentives Modify Groundwater Pumping Behaviours?**
Archisman Mitra, International Water Management Institute
Discussant: Aaditya Dar, Indian School of Business
- **Metering in West Bengal**
Abhijit Banerji, Delhi School of Economics
Discussant: Souvik Dutta, IIIT-Delhi
- **Stimulating Rules and Behavior Change in Groundwater Governance**
Thomas Falk, International Crops Research Institute for the Semi-Arid Tropics
Discussant: Sowmya Balasubramanya, International Water Management Institute

- **The Groundwater Constraint and Responses to Falling Water Tables**
Aaditya Dar, Indian School of Business, Hyderabad
Discussant: Sandip Agarwal, IISER, Bhopal

Growth and Environment

(Session 03)

14:00-16:00, December 15

Chair: Vidya Mahambare, *Great Lakes Institute of Management*

- **Do Environmental Technologies Affect Green Growth? Evidence from South-Asian Economies**
Jasmeena Bashir (University of Kashmir)
Discussant: Debdulal Thakur, Lead KREA University
- **Weather Shocks And Economic Growth In India**
Medhavi Sandhani (Telecom Regulatory Authority of India), Anubhab Pattanayak (Madras School of Economics), K.S. Kavi Kumar (Madras School of Economics)
Discussant: Saon Ray, ICRIER
- **Sustainable energy deployment in developing countries: the role of composition of energy aid**
Panika Jain (IIT Ropar), Samaresh Bardhan (IIT Ropar)
Discussant: Shrabani Mukherjee, Shiv Nadar University, Chennai

Water and Sanitation

(Session 04)

14:00-16:00, December 15

Chair: A.J. (Viju) James, *Pragmatix Research & Advisory Services Pvt. Ltd*

- **Evaluating Swachh Bharat Mission using an Environmental Sanitation Vulnerability Index**
Ewan Nikhil Thomas (University of Hyderabad), Prajna Paramita Mishra (University of Hyderabad), Paul Hutchings (University of Leeds), Alison Parker (Cranfield University), Kenneth Lynch (University of Gloucestershire), Snehalatha Mekala (Fresh Water Action Network South Asia), Dolores Rey (Cranfield University), Simon Willcock (Bangor University)
Discussant: Viju James, Pragmatix Research & Advisory Services Private Limited

- **Assessing Water Poverty in the State of Maharashtra, India**
Aishwarya Dhawan (IIT Bombay) and Haripriya Gundimeda (IIT Bombay)
Discussant: M Dinesh Kumar, Institute for Resource Analysis & Policy
- **Mapping the Water Literacy of Women in Palakkad District of Kerala**
Vijaykiran V. (University of Kerala), Anitha V. (University of Kerala)
Discussant: Vikram Dayal, Institute of Economic Growth

Urban and Peri-urban Ecosystem Management (Session 05) 14:00-16:00, December 15

Chair: Sowmya Dhanaraj, *Madras School of Economics*

- **Industrial accidents and environmental degradation: Exploring the Linkages and Responses in India**
Mousami Prasad (Australian National University), Lavanya Suresh (BITS Pilani)
Discussant: Santosh Kumar Sahu, IIT Madras
- **Corporate Philanthropic Engagements in India: Role of Strategic Factor**
Sonakshi Jain (Centre for The Digital Future, New Delhi, India)
Discussant: Sowmya Dhanaraj, Madras School of Economics
- **Man-animal conflict and the role of eco-development committee (EDCs): A village-level analysis of Jim Corbett Tiger Reserve, India**
Riyaz Alam (IIT Roorkee), Diptimayee Nayak (IIT Roorkee)
Discussant: Zareena Begum, Madras School of Economics

DAY TWO — THURSDAY, DEC 16, 2021

Plenary Lectures

9:30-11:00

- The Microeconomics of Climate Change: Lessons for India
Matthew E. Kahn, *University of Southern California*
Chair: Jagdish Krishnaswamy, *Indian Institute for Human Settlements, Bengaluru*

11:30-13:00

- Effects of Community Characteristics on the Spatial Distribution of Toxic Pollution
Madhu Khanna, *University of Illinois, Urbana-Champaign*
President, Applied and Agricultural Economics Association
Chair: Ramprasad Sengupta, *Jawaharlal Nehru University (retired)*

Parallel Sessions - II (All times in IST)

Contingent Valuation Methods (CVM) and Behavioral Evidence for the Value Estimate in CVM (Session 06) 14:00-16:00, December 16

Chair: Kavita Sardana, *TERI School of Advanced Studies*

- **Are we doing more harm than good? Hypothetical bias reduction techniques in potentially consequential survey settings**
Vasudha Chopra (University of Tennessee, Knoxville)
Discussant: Srijita Ghosh, Ashoka University
- **Strategic Behavior in Double-Bounded Dichotomous Choice Model**
Subhra Bhattacharya (OP Jindal University), Kavita Sardana (TERI SAS)
Discussant: Saptarshi Mukherjee, IIT Delhi
- **Scope insensitivity: behavioral elucidation or mental accounting?**
Srijita Ghosh (Ashoka University), Kavita Sardana (TERI SAS)
Discussant: Christian Vossler, University of Tennessee, Knoxville

Economics of Groundwater Extraction and Policy – II (Session 07) 14:00-16:00, December 16

Chair: J V Meenakshi, *Delhi School of Economics*

- **Electricity pricing in Punjab**
Disha Gupta, Delhi School of Economics
Discussant: Eshita Gupta, KPMG
- **Spatial autocorrelation in groundwater levels**
Saif Ali, IIIT-Delhi
Discussant: Abhijit Banerji, Delhi School of Economics
- **Decentralized Management and the Use of Water**
Souvik Dutta, IIIT-Delhi
Discussant: Sujoy Chakravarty, Jawaharlal Nehru University

- **Integrated Water Management: Policy and Perspective**
Navin Horo and Jagdish Purohit, GIZ

Ecological-Economic Interactions in Rural Societies (Session 08) 14:00-16:00, December 16

Chair: M.G. Chandrakant, *ISEC Bangalore*

- **Factors associated with Anaemia among Women and Children in Degraded Districts of Rural India**
Manikandan AD (IIPS Mumbai)
Discussant: N Nagaraj, ICRISAT and AgEcon UAS Bangalore
- **Assessing Greenhouse Gas Mitigation Potential Of Crop Production System In Uttar Pradesh**
Saumya (Jawaharlal Nehru University)
Discussant: Sunil Nautiyal, ISEC, Bangalore
- **Farmers' Willingness to Pay for Water Quality Improvements: A Case of Small Tanks in the Anuradhapura District of Sri Lanka**
A.M.D. Hansini (Wayamba University of Sri Lanka), J.M.M. Udugama (Wayamba University of Sri Lanka), D.P.N. Ranadewa (Wayamba University of Sri Lanka), and K.A.N.A. Appuhamy (Mahaweli Authority of Sri Lanka)
Discussant: AV Manjunatha, Government of Karnataka, Bangalore
- **Flourish or perish? The changing forest-food-health nexus among Solega tribes of BR hills, Karnataka**
Sheetal Patil (Azim Premji University), Dhanya B (Indian Institute of Forest Management), Shreelata Rao Seshadri (Azim Premji University), Raghvendra S Vanjari (Azim Premji University)
Discussant: Jade Gowda, College of Forestry, Karnataka

Sustainable Forest Development (Session 09) 14:00-16:00, December 16

Chair: Saudamini Das, *Institute of Economic Growth*

- **Use Of Common Property Resources And Community-Based Forestry Management – A Case Study Of Madhya Pradesh**
Neetu Chopra (University of Delhi)
Discussant: Purnamita Dasgupta, Institute of Economic Growth and International Centre for Integrated Mountain Development, Kathmandu
- **Sustainable Forest Management Programme, Sectoral Linkages And Employment Policy: General Equilibrium Analysis**
Srijita Ghosh (St. Xaviers University) Kausik Gupta (Calcutta University)
Discussant: Basant Pradhan, Institute of Economic Growth
- **The role of community perceptions on ecosystem services' valuation and forest management practices: A case study of the Gaddi community of Himachal Pradesh in India**
Kritishnu Sanyal (SHSS, IIT-Mandi)
Discussant: Matías Piaggio, International Union for Conservation of Nature, Gland, Switzerland

Networks, Collective Action and Local Environmental Outcomes

(Session 10)

14:00-16:00, December 16

Chair: Nilanjan Ghosh, *Observer Research Foundation*

- **Do Inherent Ability and Community Networks Matter in Agricultural Adaptation to Climate Change: A Case Study of Bihar**
Meeta Keswani Mehra (Jawaharlal Nehru University), Saheli Das (Jawaharlal Nehru University), Jones Paulson (Jawaharlal Nehru University)
Discussant: Renita D'souza, Observer Research Foundation
- **Role of Self-Help Groups in Coping with Natural Disaster: A Study from Sundarban Region in West Bengal**
Sougata Ray (International Management Institute, Odisha), Shyam Nath (Amrita Center for Economics & Governance)
Discussant: Anamitra Anurag Danda, Director - Sundarbans Program, WWF India & Senior Visiting Fellow, Observer Research Foundation
- **Institutional Arrangements and Collective Actions in WUAs of West Bengal, India**
Indranil De (Institute of Rural Management Anand), Soumyadeep Chattopadhyay,

Hippu Salk Kristle Nathan, Prabhat Mishra, Akhilesh Parey, Subhasish Dutta
Discussant: Purnamita Dasgupta, Institute of Economics Growth, University of
Delhi

Parallel Sessions - III (All times in IST)

Models of Emission-generation Technologies and Applications (Session 11) 16:00-18:00, December 16

Chair: Sushama Murty, *Jawaharlal Nehru University*

- **Inter-Industry Difference in the Impact of Emission Control on Output and Employment: A Nonparametric Analysis of Manufacturing Data**
Subhash Ray (University of Connecticut)
Discussant: Resham Nagpal, Jawaharlal Nehru University
- **The Impact of British Columbia's Carbon Tax on Economic and Environmental Efficiency**
Subal Kumbhakar (SUNY Binghamton)
Discussant: Sushama Murty, Jawaharlal Nehru University
- **Achieving allocative efficiency using economic instruments for pollution control: The case of the Indian thermal power sector**
Sushama Murty (Jawaharlal Nehru University)
Discussant: Anup Kumar Bhandari, IIT Madras

Current Issues in Air Pollution Policy in India (Session 12) 16:00-18:00, December 16

Chair: Sarath Guttikunda, *Urban Emissions Info*

- **Crop Residue Burning in NW India – From Research to Action**
Priya Shyamsundar (The Nature Conservancy), Kunal Sharma (The Nature Conservancy),
Krishnapriya P.P. (Duke University)
Discussant: Karthik Ganesan, Council on Energy, Environment and Water
- **Can we vacuum Delhi's air pollution problem with smog towers?**
Sarath Guttikunda (Urban Emissions Info), Puja Jawahar (Urban Emissions Info)
Discussant: Karthik Ganesan, Council on Energy, Environment and Water

- **Energy and the environment – a closer look at multiple transitions facing India and the world**
Rahul Tongia (Center for Social and Economic Policy, New Delhi)
Discussant: Karthik Ganesan, Council on Energy, Environment and Water

Climate Extremes: Impacts and Adaptation Responses (Session 13)

16:00-18:00, December 16

Chair: Seema Purushotthanam, *Azim Premji University*

- **Vulnerability Assessment Of Forest Dependent Tribal Community Towards The Impacts Of Drought**
D. Sarada Devi (Cochin University and Kerala Forest Research Institute), V. Anitha (Kerala Forest Research Institute)
Discussant: Seema Purushothaman, Azim Premji University
- **Crop Diversity and Resilience to Droughts: Evidence from Indian Agriculture**
Madhumitha Srinivasan (Madras School of Economics), K.S. Kavi Kumar (Madras School of Economics) and Anubhab Pattanayak (Madras School of Economics)
Discussant: Manjula M., School of Development, Azim Premji University
- **Adaptation to Rainfall Extremes: Role of Dams in India**
Agnij Sur (Independent Scholar), K.S. Kavi Kumar (Madras School of Economics), Anubhab Pattanayak (Madras School of Economics)
Discussant: Sadhana Satapathy, Dept of Economics, BJB Autonomous College, Bhubaneswar
- **Role Of Social Capital In Disaster Relief And Reconstruction In The Context Of Natural Disasters And Covid 19 Pandemic In Kerala**
Resmi C. Panicker (University College, Thiruvananthapuram)
Discussant: Emmanuel D'Silva, Agriculture & Environment Scientist, Mumbai
- **Global Perspectives on Sustainable Land Management and Climate**
Patrick Alexander Smytzek, GIZ

Green Technology Adoption and Related Issues (Session 14)

16:00-18:00, December 16

Chair: Joyashree Roy, *Asian Institute of Technology*

- **Understanding the Determinants of Decision making to adopt Climate Smart Technologies among the Rural Farmers of Odisha**
Pradyot Ranajan Jena (NIT Karnataka) & Purna Chandra Tanti (NIT Karnataka)
Discussant: Barun Deb Pal, IFPRI
- **An Economic Assessment Of Household-Biogas Use In The Province Of Samtse Dzongkhag, Bhutan**
Inder Jeet Sunuwar (Nalanda University), Kishore Dhavala (Nalanda University) and Sridhar Telidevera (Development Management Institute, Patna)
Discussant: Shyamasree Dasgupta, IIT Mandi
- **Why Is Adoption Of Water-Saving Technologies Slow In India? A Review**
Jyoti Nair (ATREE) , Bejoy K Thomas (IISER Pune)
Discussant: Sakib B. Amin, North South University, Bangladesh

Health Impacts of Air Pollution

(Session 15)

16:00-18:00, December 16

Chair: Kanishka Kacker, *Indian Statistical Institute, Delhi*

- **Health Effects of Sustained Exposure to Fine Particulate Matter: Evidence from India**
Yashaswini Saraswat (Jawaharlal Nehru University), Sangeeta Bansal (Jawaharlal Nehru University)
Discussant: Kanishka Kacker, ISI Delhi
- **Smoky Kitchens, Damaged Health: Indoor Air Pollution from Solid Fuel use for Cooking in Rural Jharkhand**
Krittika Roy (Indian Statistical Institute Bangalore)
Discussant: Pushkar Maitra, Monash University
- **Health Externality and Air Pollution in the Opencast Coal Mining Region of Odisha**
Indrani Roy Chowdhury (Jawaharlal Nehru University), Anusree Paul (Jawaharlal Nehru University)
Discussant: Anand Murugesan, Central European University

DAY THREE — FRIDAY, DEC 17, 2021

Plenary Lectures

9:30-11:00

- Valuation of Ecosystem Services
David Simpson, *American University, Washington DC*
Chair: Madhu Verma, *World Resources Institute, New Delhi*

15:30-17:00

- Skills for Green Economy: What, where and how much?
Francesco Vona, *French Economic Observatory of Sciences-Po, Paris*
Chair: Pulapre Balakrishnan, *Ashoka University*

Ecology, Economy and Society - the INSEE Journal

13:45 - 14:00

Editors' Report presented by Kanchan Chopra, *Institute of Economic Growth* (retired)
and Asmita Kabra, *Ambedkar University*

Parallel Sessions - IV (All times in IST)

Air Pollution

(Session 16)

11:15-13:15, December 17

Chair: E Somanathan, *Indian Statistical Institute, Delhi*

- **Citizen Participation and Government Accountability: National-Scale Experimental Evidence from Pollution Appeals in China**

Mark Buntaine (U Cal Santa Barbara), Michael Greenstone (U Chicago), Guojun He (HKUST), Mengdi Liu (U International Business and Economics), Shaoda Wang (U Chicago), Bing Zhang (Nanjing U)

Discussant: Sabyasachi Das, Ashoka University

- **Identifying the Effect of Coal Plants on Air Pollution**

Rishabh Choudhary (World Bank), Sagnik Dey (IIT Delhi), Kanishka Kacker (ISI Delhi), E. Somanathan (ISI Delhi)

Discussant: Aparajita Dasgupta, Ashoka University

- **Saving Africa's Tropical Forests through Energy Transition: A Randomized Controlled Trial in Tanzania**

Yonas Alem (U Gothenburg), Remidius Ruhinduka (University of Dar es Salaam)

Discussant: Sisir Debnath, IIT Delhi

Environmental Policy, Competitiveness and Green Technology (Session 17)

11:15-13:15, December 17

Chair: Aparna Sawhney, *Jawaharlal Nehru University*

- **Pollution Treaties, Bilateral Carbon Trade and Welfare**

Saibal Kar (Centre for Studies in Social Sciences, Calcutta and IZA Bonn)

Discussant: Anindita Sen, Calcutta University

- **Urbanization, Energy-Use Intensity and Emissions: A Sectoral Approach**

Honghong Wei (Shanghai University), and Radhika Lahiri (Queensland University of Technology)

Discussant: Prajna Paramita Mishra, Hyderabad University

- **Export participation and environmental performance: Firm-level evidence from Indian manufacturing**
Rumi Azim (Jawaharlal Nehru University), Aparna Sawhney (Jawaharlal Nehru University)
Discussant: Saon Ray, Indian Council of Research in International Economic Relations

Artificial Intelligence for Sustainable Environment (Session 18) 11:15-13:15, December 17

Chair: Saket Anand, *Center for Artificial Intelligence, IIT-Delhi*

- **A Hybrid Approach for Tiger Re-Identification. ICCV 2019 Workshop on Computer Vision for Wildlife Conservation**
A. Shukla, C. Anderson, G. S. Cheema, P. Guo, S. Onda, D. Anshumaan, S. Anand and R. Farrell
Discussant: Shikha Bisht, Wildlife Institute of India
- **Primate Face Identification in the Wild. Pacific-Rim International Conference on Artificial Intelligence, 2019**
A. Shukla, G. S. Cheema S. Anand, Q. N. Qureshi, and Y. V. Jhala
Discussant: Pushpendra Rana, H.P. Forest Department
- **IN-SAT: A novel land cover classification dataset for Indian Subcontinent. IEEE International Geoscience and Remote Sensing Symposium, 2021**
M. Shah, A.V. Subramanyam, and G. Arora
Discussant: Sandeep Mahato, M.S. Swaminathan Research Foundation
- **The Good Relationship: AI, Natural Resource Management and Climate Change**
Gaurav Sharma, GIZ

Human Behavior and the Environment (Session 19) 11:15-13:15, December 17

Chair: Kiriti Kanjilal, *IIT-Delhi*

- **Enhancing the Informational Nudge Of Energy Labels: Evidence From A DCE In New Delhi, India**
Charu Grover (Indian Institute of Foreign Trade), Sangeeta Bansal (Jawaharlal Nehru

University), Adan L. Martinez-Cruz (Swedish University of Agricultural Sciences)
Discussant: Ritwik Banerjee, IIM Bangalore

- **Climate change perception, adaptation, challenges, and need of women farmers: insights from eastern Uttar Pradesh in India**

Susmita Mitra (Council for Social Development), Sudipta Kumar Mishra (GD Goenka University), Antora Borah (Council for Social Development), Gitesh Sinha (Council for Social Development)

Discussant: Kedar Kulkarni, Azim Premji University Bangalore

- **Determinants of Household Water Efficient Technology Adoption: Understanding Household Perceptions and Environmental Attitude for Demand Side Management Policies**

S. Ashwin Ram (Madras School of Economics)

Discussant: Aparajita Singh, IIT Roorkee

Marine Resource Development and Policy Issues in Coastal Societies

(Session 20)

11:15-13:15, December 17

Chair: Sandip Kumar Agarwal, *IISER Bhopal*

- **Economic valuation of improved cyclone forecasting services for the coastal households of Bangladesh**

Md Masumur Rahaman (Ministry of Foreign Affairs, Bangladesh Embassy), Md. Hafiz Iqbal (Government Edward College, Bangladesh)

Discussant: Zabid Iqbal, University of British Columbia

- **A Study of Sustainable Management of Marine Fishery Resource in India**

Deboshmita Brahma (University of Calcutta)

Discussant: Sandip Agarwal, IISER Bhopal

- **Kerala Flood 2018 and Socio-Economic Deprivation of Households in Alappuzha**

Lavanya Sivan (University of Kerala), Anitha V. (University of Kerala)

Discussant: Vipin V., IISER Bhopal

Global Environmental Change (Session 21) 11:15-13:15, December 17

Chair: Haripriya Gundimeda, *IIT Bombay*

- **Sustainable Wealth and Emissions: An Alternate Approach to EKC Hypothesis**
Priti Agarwal (Delhi University)
Discussant: Haripriya Gundimeda, IIT Bombay
- **Valuation of Natural Capital: A Meta-Analysis of National Park valuation studies in South and South East Asia**
Shraddha Shrivastava (Gokhale Institute of Politics and Economics), Kakali Mukhopadhyay (McGill University, Canada)
Discussant: M.N. Murty, Institute of Economic Growth (Retd.)
- **Land Degradation And Environment Kuznets Curve: Indian Experience**
Ipsita Das(IGIDR)
Discussant: TBA
- **Transboundary Water Pollution and Optimal Water Allocation in a Dynamic Model**
Chhanda Mandal (Muralidhar Girls' College), Sanchari Choudhury (Colorado State University), Kausik Gupta (University of Calcutta)
Discussant: TBA

Parallel Sessions - V (All Times in IST)

Symposium on Narpat S. Jodha

(Session 22)

14:00-15:30, December 17

Chair: Jayanta Bandyopadhyay, *Observer Research Foundation*

Speakers

- Kanchan Chopra, Institute of Economic Growth (retired)
- Sharachandra Lele, Ashoka Trust for Research in Ecology and the Environment
- Harpinder Sandhu, Federation University Australia

Climate Change and Agriculture

(Session 23)

14:00-15:30, December 17

Chair: A.K. Enamul Haque, *East West University, Dhaka*

- **Damage to Crops due to Climatic Conditions in India 1953-2018: An Econometric Analysis**
Prasanta Patri (IIT Indore), Pritee Sharma (IIT Indore)
Discussant: S Madheswaran, ISEC, Bangaluru, India
- **Information as a determinant of farmer's adaptive capacity to climate risk: an empirical study from Haryana, India**
Priya Chetri (IIT Delhi), Upasna Sharma (IIT-Delhi), P. Vigneswara Ilavarasan (IIT-Delhi)
Discussant: Manjula Menon, Azim Premji University
- **Coping with or Adapting to Climate Change Impact On Agriculture: A Content Analysis**
Madhuri Pratap (IIT-Delhi)
Discussant: Chandra Sekhar Bahinipati, IIT Tirupati

Sustainable Development Goals: Lessons for Economic Policy

(Session 24)

14:00-15:30, December 17

Chair: Tanmoy Das, *XIM University*

- **Sustainable Development Goal 12 (SDG12) under Asymmetric Information: A Game Theoretic Approach**

Arnab Mahapatra (University of Burdwan), Soumyananda Dinda (University of Burdwan)

Discussant: Parikshit De, IISER Bhopal

- **Synergies between climate change mitigation options and Sustainable Development Goals: Evidence from Indian cropland-based agriculture**

Shreya Some (Ahmedabad University), Joyashree Roy (Asian Institute of Technology, Thailand and Department of Economics, Jadavpur University), Arpita Ghose (Jadavpur University)

Discussant: Suresh K. Patra, XIM University

- **Adoption and Impact Of Crop Insurance In India: Evidence From India Human Development Survey**

Dinamani Biswal (IIT Tirupati), Chandra Sekhar Bahinipati (IIT Tirupati)

Discussant: Sandip Sarkar, XIM University