

**THE INDIAN SOCIETY FOR ECOLOGICAL ECONOMICS (INSEE)
EIGHTH BIENNIAL CONFERENCE
URBANIZATION AND THE ENVIRONMENT**

SUNDAY, 3 JANUARY 2016
DEPARTMENT OF MANAGEMENT STUDIES, INDIAN INSTITUTE OF SCIENCE (IISc), BANGALORE

14:00 – 18:00	Field trip to Jakkur Lake (<i>Optional – by registration</i>) <i>Conducted by S Vishwanath, Biome Environmental Solutions</i>
19:00 – 19:30	Tea/Coffee
19:30 – 20:00	Meeting of the INSEE Eighth Biennial Conference Scientific Advisory Committee (SAC) and Local Organizing Committee (LOC)
20:00 – 21:00	Dinner
20:30 – 22:00	Meeting of the INSEE Executive Committee (EC)

MONDAY, 4 JANUARY 2016

06:15 – 07:45	Bird-watching walk on IISc campus (<i>Optional – by registration</i>) <i>Conducted by Ecology Students Society, IISc</i>
08:30	Conference registration

MONDAY, 4 JANUARY 2016
SATISH DHAWAN AUDITORIUM, IISc

INAUGURAL SESSION

09:30 – 11:00	Welcome remarks Prof H N Chanakya, Chairman, Centre for Sustainable Technologies, IISc
	Conference introduction Seema Purushothaman, Vice-President INSEE and Professor, Azim Premji University
	Presidential address <i>Engaging with urban environments: Challenges and opportunities for environmental researchers</i> Sharachchandra Lele, President INSEE and Senior Fellow and Convenor, Centre for Environment and Development, Ashoka Trust for Research in Ecology and the Environment (ATREE)
	Introducing keynote speaker Rajeswari Raina, Secretary INSEE and Scientist, National Institute of Science, Technology and Development Studies (NISTADS)
	Inaugural address <i>Sustainable cities will be equitable and inclusive cities: How urban growth must be reinvented for sustainability and liveability in our world</i> Sunita Narain, Director General, Centre for Science and Environment (CSE)
11:00 – 11:30	High Tea

MONDAY, 4 JANUARY 2016
P1 – PARALLEL TECHNICAL SESSIONS

11:30 – 13:00 <i>Chair:</i> Saudamini Das	P1 A: Urbanization, Industrialization and Climate Change <i>Venue:</i> Seminar Hall, Centre for Sustainable Technologies
Sweety Pandey	An Ecologic-Economic Analysis of Urbanization, Energy Consumption, Economic Growth and Environmental Quality in India
Rakesh Saxena	Urbanization and Environmental Performance across Indian States and Union Territories: A Regression Analysis
Bandana Khataniar	Impact of Urbanization on Energy Use and CO2 Emissions: A Cross-Country Analysis of Emerging Asian Countries
Mousami Prasad	Investigating Firms' Response towards Environmental Sustainability in the Indian Context
11:30 – 13:00 <i>Chair:</i> Rajeswari Raina	P1 B: Culture, Consumption and Sustainability of Cities <i>Venue:</i> Class Room, Department of Management Studies
Sneha Thapliyal	Economic Sustainability of Urban India: Assessing the Inclusiveness of Household Consumption Expenditure (1983-2012)
Nibedita Dash	Benchmarking Sustainability of Urban Mobility – An Indicator-based Approach
Chhavi Tiwari	Measuring the Sustainability of a Heritage City Varanasi
11:30 – 13:00 <i>Chair:</i> N C Narayanan	P1 C: Urban Environmental Governance and Technology <i>Venue:</i> Seminar Hall, Department of Management Studies
Kim Fortun	Critical Data Practice in Air Pollution Governance: New York City, Houston, Philadelphia, Albany, Beijing, Bengaluru
Amrita Ghatak	Environmental Regulations and Compliance: A Case of Textile Dyes Industry in Ahmedabad
Ramya Swayamprakash	Connected Cities, Disconnected Rivers: Analysing Urban Rivers in India
Neha Singh	Understanding the Effect of Urbanization on Environment A Case Study of River Knah (modern name Khan) in Indore City
11:30 – 13:00 <i>Chair:</i> Veena Srinivasan	P1 D: Urban Water: from Source to Disposal <i>Venue:</i> Satish Dhawan Auditorium
Sukanya Das	Evaluating Consumer's Preference for Wastewater Treatment: A Case Study of Tamil Nadu
R K Amit	Coping Strategies and Coping Costs for Accessing Safe Water in Chennai, India
Debanjana Dey	Disposal of Wastewater and the East-bound Growth of the City of Kolkata: A Compatibility Analysis
Neelam Rana	Community-Managed WasteWater Treatment Systems with Techno-economic Assessment
11:30 – 13:00 <i>Chair:</i> Jagdish Krishnaswamy	P1 E: Air Pollution, Solid Waste and Human Health <i>Venue:</i> Annex Class Room, Satish Dhawan Auditorium
Priyanka Khati	Municipal Solid Waste Management in Kalimpong Town: An Economic Analysis
Gopal Krishna Samraj Sahay	Why Urban Waste Continues to Follow the Path of Least Resistance Impact of Urbanization and Solid Waste on Climate
13:00 – 14:00	Lunch

14:00 – 15:30

Round Table Discussion 1

Sustainable Consumption and Production in South Asian Cities: What? How?

- Sagar Dhara, Cerana Foundation, Hyderabad, India
- Suren Erkman, University of Lausanne, Switzerland (*tbc*)
- Atiq Rahman, Bangladesh Centre for Advanced Studies, Dhaka, Bangladesh
- Madhav Badami, McGill School of Environment & School of Urban Planning, Montreal, Canada (*Moderator*)

Organized by INSEE with support from United Nations Environment Programme (UNEP)

15:30 – 16:00

Tea / Coffee

MONDAY, 4 JANUARY 2016
P2 – PARALLEL TECHNICAL SESSIONS

16:00 – 17:30 <i>Chair:</i> Gopi Rethinaraj	P2 A: Urbanization, Industrialization and Climate Change <i>Venue:</i> Seminar Hall, Centre for Sustainable Technologies
Asanka Wijesinghe	Deforestation and Income Growth in South Asia: An Evidence for Environmental Kuznets Curve
Rachna Yadav	Urbanization, Resource Use and Rise in Entropy: A Case Study of Guwahati City
Tamali Chakraborty	Urbanizing India through Special Economic Zones (SEZs) and Its Impact on the Surrounding Environment: Evidence from Mundra, Gujarat, India
Chhavi Tiwari	Benchmarking the Sustainability of Urbanizing India with special reference to Uttar Pradesh
16:00 – 17:30 <i>Chair:</i> Bejoy Thomas	P2 B: Culture, Consumption and Sustainability of Cities <i>Venue:</i> Class Room, Department of Management Studies
M Balasubramanian	Economics of Urban Ecosystem Services in Bangalore
T Syama Sundar	Leveraging Culture Towards Sustainability of Cities
Mihir Mathur	Modelling Economic Policies for Sustainable Consumption of Natural Resources: A System Dynamics Approach
16:00 – 17:30 <i>Chair:</i> Seema Purushothaman	P2 C: Urban Commons, Institutions and Movements <i>Venue:</i> Seminar Hall, Department of Management Studies
Aditi Hastak	My Well, Our Water: Can Citizens Become Stewards of Groundwater?
Jenia Mukherjee	Commons vs. Commodity: Urban Environmentalisms and the Transforming Tale of the East Kolkata Wetlands
Aditi Singh	Fuelwood Dependents of Urban Forests: Odds Favour the Morning Walkers
Praveen Singh	The Struggle for Reclaiming the Urban Commons in Delhi
16:00 – 17:30 <i>Chair:</i> Kalyan Das	P2 D: Urban Water: from Source to Disposal <i>Venue:</i> Satish Dhawan Auditorium
Indranil De	Local Self-governance, Ethnic Division in Slums and Preference for Water Supply Institutions in Kolkata, India
Sowmia Philip	Urbanisation and the Environment
Karthik Madhyastha	Water Governance in Small Towns: A Comparative Study of Small Towns in Karnataka and Tamil Nadu
Sharachchandra Lele	Potential for and Barriers to Decentralized Wastewater Recycling: Insights from Bangalore, India
16:00 – 17:30 <i>Chair:</i> Indira P	P2 E: Rural in the Urban: Agriculture in Cities <i>Venue:</i> Annex Class Room, Satish Dhawan Auditorium
Mrutyunjaya Mishra	Health Cost of Wastewater Irrigation in Urban and Peri-Urban Agriculture: A Study of Varanasi
Jacob John	Terrace Gardens for Food Security in Urban Households – An Eco-Friendly Model from Kerala, India
Camille Frazier	“Grow What You Eat, Eat What You Grow”: Organic Terrace Gardening in Bengaluru

MONDAY, 4 JANUARY 2016
SATISH DHAWAN AUDITORIUM, IISC

18:00 – 19:30	Round Table Discussion 2 <i>From Ecological Economics to Ecology, Economy and Society: Engagements with Interdisciplinarity in Environmental Research</i> <ul style="list-style-type: none">• Kanchan Chopra, Professor Emeritus, Former Director, Institute of Economic Growth, University of Delhi; Founding President of INSEE• Desmond McNeill, Head of Research and Director of Research School, Center for Development and the Environment, University of Oslo• Arild Vatn, Professor, Department of International Environment and Development Studies, Norwegian University of Life Sciences (UMB); Former President of European Society for Ecological Economics• Sharachchandra Lele, Senior Fellow & Convenor, Centre for Environment & Development, ATREE, Bangalore (<i>Moderator</i>) <p><i>Organized by ATREE, Bangalore</i></p>
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19:30 – 20:30	INSEE Annual General Meeting
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20:30 – 21:30	Dinner
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TUESDAY, 5 JANUARY 2016

06:15 – 7.45	Bird-watching walk on IISc campus (<i>Optional – by registration</i>) <i>Conducted by Ecology Students Society, IISc</i>
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TUESDAY, 5 JANUARY 2016
SATISH DHAWAN AUDITORIUM, IISC

08:30 onwards	Photography Exhibition <i>Living at the Margins of Bengaluru's Lakes: Untold Stories of Change, Loss and Hope</i> Photographs by Arati Kumar-Rao, Marthe Derkzen and Anoop Bhaskar Research study by Marthe Derkzen, VU University Amsterdam; Harini Nagendra and Seema Mundoli, Azim Premji University
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09:30 – 11:00	Introducing keynote speaker Bejoy Thomas, Fellow, Centre for Environment and Development, ATREE Keynote Speech <i>India's indispensable informal waste economy</i> Barbara Harriss-White, Emeritus Professor of Development Studies, Emeritus Fellow of Wolfson College, Oxford University and Visiting Professor at JNU Introducing keynote speaker Shoibal Chakravarty, Assistant Professor, National Institute of Advanced Studies (NIAS) Keynote Speech <i>Where do we start planning for better air quality in Indian cities?</i> Sarath Guttikunda, Director, UrbanEmissions.Info and Adjunct Associate Professor, Centre for Climate Studies, Indian Institute of Technology Bombay, Mumbai
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11:00 – 11:30	Tea / Coffee
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TUESDAY, 5 JANUARY 2016
P3 – PARALLEL TECHNICAL SESSIONS

11:30 – 13:00 <i>Chair:</i> P Balachandra	P3 A: Urbanization, Industrialization and Climate Change <i>Venue:</i> Seminar Hall, Centre for Sustainable Technologies
Apurba Kumar Das	Urbanization and Thermal Environment of Guwahati City
Pleasa Serin Abraham	Willingness to Pay for Green-Rated Buildings in Bangalore
Rahul Mazumder	Impact of Development of Greenfield Airports on Environment and Urbanization
11:30 – 13:00 <i>Chair:</i> Madhav Badami	P3 B: Culture, Consumption and Sustainability of Cities <i>Venue:</i> Class Room, Department of Management Studies
Hippu Salk Kristle Nathan	Urban Energy Poverty in India: A Household-level Analysis
Debalina Chakravarty	Sustainable Fuel Consumption of Urban Households
Bibhu Prasad Nayak	Harnessing Social Capital for Sustainable Cities: Community-Based Resource Pooling Transition to Cleaner and Modern Cooking Fuel among the Urban Poor
11:30 – 13:00 <i>Chair:</i> Seema Purushothaman	P3 C: Urban Environmental Governance and Technology <i>Venue:</i> Seminar Hall, Department of Management Studies
Binay Krishna Pal	Re-organizing Urban Space: Towards Sustainable Neighbourhood Transitions
Mukesh Lakum	Application of Socio-Technical Transition Theory to Understand Urban Sustainability in India
Mihir Mathur	Modelling Urban Carrying Capacity and Measuring Quality of Life Using System Dynamics
11:30 – 13:00 <i>Chair:</i> Gopal Kadekodi	P3 D: Water for Growing Cities – the Impacts of Urbanization and Climate Change at the Watershed Scale <i>Venue:</i> Satish Dhawan Auditorium
Veena Srinivasan	The Transition from Water Scarcity to Water Pollution in Thippagondanahalli Halli Catchment, India
Vishal Narain	Conflicts, Cooperation and Peri-urban Water Security: Towards a Research Agenda for Emerging Indian Cities
Sebastian Vicuna	Challenges and Opportunities for Urban Water Adaptation Using a Basin Perspective: the Case of Santiago de Chile
11:30 – 13:00 <i>Chair:</i> Haripriya Gundimeda	P3 E: Urban Ecologies, Biodiversity <i>Venue:</i> Annex Class Room, Satish Dhawan Auditorium
Hemantkumar Chouhan	Political Ecology of Natural Resource and Its Degradation, Power Relations, Marginalization of Small-Scale Fishing in Mumbai
Prajna Paramita Mishra	Visitors' Willingness to Pay for Lake Conservation: Evidence from Hyderabad
Malini Shetty	Assessment of Urban Green Space of Bangalore – A Comparative Study
Arsh Marwaha	Urban Ecology of Delhi: Relationship between Birds and Trees and Their Management
13:00 – 14:00	Lunch

14:00 – 15:30

Round Table Discussion 3

Waste-full Cities: Ground-level Challenges and Research Questions

- N C Narayanan, Centre for Technology Alternative for Rural Areas, Indian Institute of Technology Bombay, Mumbai
- D T V Raghu Rama Swamy, Director and Professor at the School of Infrastructure, RICS School of Built Environment (RICS SBE), Amity University, New Delhi; formally CEO of the Infrastructure Development Corporation (Karnataka) Ltd
- Sasanka Velidandla, Chief Executive, CDD Society, Bangalore
- Shubhagato Dasgupta, Senior Fellow and Director of the Scaling City Institutions for India (Sci-Fi) Sanitation initiative, Centre for Policy Research (CPR), New Delhi (*Moderator*)

Organized by Centre for Policy Research (CPR), New Delhi

15:30 – 16:00

Tea / Coffee

TUESDAY, 5 JANUARY 2016
P4 – PARALLEL TECHNICAL SESSIONS

16:00 – 17:30 <i>Chair:</i> Saudamini Das	P4 A: Urbanization, Industrialization and Climate Change and Urban Environmental Governance and Technology <i>Venue: Seminar Hall, Centre for Sustainable Technologies</i>
Manu Mathai	Public Mobility: Enabling Steps for Human-Centered Low-Carbon Societies
Monoj Biswas	Introducing Cycling as a Tool for Smart Urban Growth (A Study of Khulna Metropolitan Area)

16:00 – 17:30 <i>Chair:</i> Ashish Kothari	P4 B: Culture, Consumption and Sustainability of Cities <i>Venue: Class Room, Department of Management Studies</i>
Snehashish Mitra	Urbanization and the Environment
Krishna Malakar	Understanding Adaptation Decisions in Urban Fishing Communities
Akshhaya Singghvi and Swati Sharma	A Cultural Paradigm for Sustainable Development of Cities

16:00 – 17:30 <i>Chair:</i> Kanchan Chopra	P4 C: Urban-Rural Environmental and Resource Linkages <i>Venue: Seminar Hall, Department of Management Studies</i>
Vijay Krishnan Kolinjivadi	Capabilities as Justice: Analysing the Acceptability of Payments for Ecosystem Services (PES) through ‘Social Multi-Criteria Evaluation’
Rupak Kumar	Flood Damage and Level of Urbanization: A District-Level Panel Data Investigation in Bihar, India
Ramachandra Bhatta	Urban Growth and Access to Coastal/Marine Resources along the Coastal Karnataka
Ismail Hossain	The Effect of Infrastructural Facilities Development on Efficiency of Primary Educational Institutions in Urban Areas

16:00 – 17:30 <i>Chair:</i> Desmond McNeill	P4 D: Regulating Industrial Water Pollution through Standards and Targets: Insights from India and China <i>Venue: Satish Dhawan Auditorium</i>
Priyanka Jamwal	Rethinking Irrigation Water Quality Standards in the Context of Urban Streams
Xuehua Zhang	State Planning and Water Pollution Control in China: Is It Sufficient to Improve China's Water Quality?
Jenny Gronwall	Tirupur's Journey and the Impact of 'Zero' Coming into Fashion

16:00 – 17:30 <i>Chair:</i> Partha Mukhopadhyay	P4 E: Air Pollution, Solid Waste and Human Health <i>Venue: Annex Class Room, Satish Dhawan Auditorium</i>
Hafiz Iqbal	Transformation of Waste into Energy in the Pabna Municipality Area of Bangladesh: An Economic Valuation
Somdutta Banerjee	Strategic Management of Household Waste and Local Government: A Cross-Country Analysis

TUESDAY, 5 JANUARY 2016
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18:00 – 19:30

Round Table Discussion 4

Challenges in Urban Water Management

- K J Joy, Secretary, Society for Promoting Participative Ecosystem Management (SOPPECOM), Pune
- M S Mohan Kumar, Professor, Department of Civil Engineering, IISc
- Arvind Shrivastava, Secretary (Budget & Resources), Finance Department, Government of Karnataka
- S Vishwanath, Director, Biome Environmental Solutions, Bangalore
- Veena Srinivasan, Fellow, ATREE, Bangalore (*Moderator*)

Organized by INSEE with support from Rohini Nilekani

19:30 – 20:30

Cultural Programme

Musical performance by Bhoomi Thaayi Balaga (Friends of Mother Earth)

20:30 – 21:30

Dinner

WEDNESDAY, 6 JANUARY 2016

06:15 – 7.45

Bird-watching walk on IISc campus (*Optional – by registration*)
Conducted by Ecology Students Society, IISc

WEDNESDAY, 6 JANUARY 2016
SATISH DHAWAN AUDITORIUM, IISC

09:30 – 11:00

Round Table Discussion 5

Resilient Cities and Transformative Adaptation

- G K Bhat, Chairman, Taru Leading Edge Pvt Ltd, Ahmedabad
- Partha Mukhopadhyay, Senior Fellow, Centre for Policy Research, New Delhi
- Sudhir Chella Rajan, Professor, Department of Humanities and Social Science, Indian Institute of Technology Madras, Chennai
- Neha Sami, Consultant-Research, IIHS, Bangalore
- Aromar Revi, Director, IIHS, Bangalore (*Moderator*)

Organized by Indian Institute for Human Settlements (IIHS), Bangalore

11:00 – 11:30

Tea / Coffee

11:30 – 13:00 <i>Chair:</i> Gopi Rethinaraj	P5 A: Urbanization, Industrialization and Climate Change <i>Venue:</i> Seminar Hall, Centre for Sustainable Technologies
Samraj Sahay	Dengue, Weather and Household Coping Strategies in Delhi
Chandra Sekhar Bahinipati	Flood-Induced Economic Loss and Damage to the Textile Industry in Surat City, India
Ulka Kelkar	Will India's "Smart" Cities Be Resilient to Climate Change?
11:30 – 13:00 <i>Chair:</i> Suresh Babu	P5 B: Culture, Consumption and Sustainability of Cities and Air Pollution, Solid Waste and Human Health <i>Venue:</i> Class Room, Department of Management Studies
Vighnesh N V	E-waste Mitigation and Management in India: Synthesis of Stakeholders' Perspectives
Rama Mohan Turaga	Policy Instruments for Electronic Waste Management under Extended Producer Responsibility Framework: A Review and Lessons for India's e-Waste Rules
11:30 – 13:00 <i>Chair:</i> Harini Nagendra	P5 C: Smart Cities, but for Whom? The Loss of the Commons and Urban Vulnerability <i>Venue:</i> Seminar Hall, Department of Management Studies
Sumit Vij	Land, Water and Power: The Demise of Common Property Resources in Peri-urban Gurgaon, India
Seema Mundoli	Commons That Provide: Multiple Uses and Vulnerabilities of Bengaluru's Urban Commons
D Parthasarathy	New Claims on the Coastal Commons: Contestation, Marginalization of Fishers and Fisher Spaces, and Environmental Degradation in the Mumbai Metropolitan Region
Ashish Kothari	Discussant
11:30 – 13:00 <i>Chair:</i> K J Joy	P5 D: Urban Water: from Source to Disposal <i>Venue:</i> Satish Dhawan Auditorium
Durba Biswas	Patterns and Drivers of Household's Water Consumption in Coimbatore
Prasenjit Sarkhel	Fetching Pails of Water: Examining Households Choice of Drinking Water Sources in Urban India
Priti	Drinking Water in Urban India: A Study of Deficiency, Quality and Some Social Implications
Rahul Banerjee	Sustainability of Urban Water Supply and Sanitation in Dryland Areas – Case Study of Indore City
11:30 – 13:00 <i>Chair:</i> Kalyan Das	P5 E: Urban-Rural Environmental and Resource Linkages <i>Venue:</i> Annex Class Room, Satish Dhawan Auditorium
Kaustav Raj Neupane	Changing Dynamics of Water Negotiation in Midhill Towns of Nepal: A Case from Dhulikhel
Neha Singh	Waterscape: Urban & Rural Reconfigured
S Balamurugan	Issues and Implications of Water Diversion from Rural to Urban Areas: A Case Study
Amarendra Pratap Singh	Impact of Technology, Population and Urbanization on Cropland Expansion: Panel Data Evidence from Post-Green Revolution in Andhra Pradesh
13:00 – 14:00	Lunch

14:00 – 15:30

Round Table Discussion 6

Environmental Narratives: Urbanizing Environments and the Media

- Darryl D'Monte, Chairman Emeritus, Forum of Environmental Journalists in India (FEJI) and Founder President, International Federation of Environmental Journalists (IFEJ), Mumbai
- Ammu Joseph, Freelance journalist, media analyst and editorial consultant, Bangalore
- Ashish Kothari, Founder-member, Kalpavriksh, Pune
- Kalpana Sharma, Editorial Consultant, Economic and Political Weekly, and former Deputy Editor, The Hindu, Mumbai
- T V Padma, Science journalist, New Delhi (*Moderator*)

Organized by T V Padma in collaboration with INSEE

15:30 – 16:00

Tea / Coffee

16:00 – 17:30

VALEDICTORY SESSION

Presentation of INSEE-NISTADS Award

For best student paper in the Symposium on Growth, Green Growth or Degrowth

Conference report

Rajeswari Raina, Secretary INSEE and Scientist NISTADS

Introducing valedictory speaker

Manu V Mathai, Assistant Professor, Azim Premji University

Valedictory address

Joan Martinez-Alier, Emeritus Professor, Universitat Autònoma de Barcelona and FLACSO, Ecuador

Acknowledgments

P Balachandra, Principal Research Scientist, Department of Management Studies & Centre for Sustainable Technologies, IISc

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