

Cover Letter

August 06, 2020

To
The Selection Committee
TERI School of Advanced Studies

Application for the position of Associate Professor in Department of Energy and Environment (Climate Science & Policy, Urban Development)

May please find this application for the position of Associate Professor at your premiere institute.

I am an Alexander von Humboldt Research Fellow, *Chair of Sustainability Economics in Human Settlements* in the Technical University (TU) Berlin, Germany.

I have 15 years of active experience in teaching, research, capacity building and knowledge dissemination in the environment sector. I worked with a research advisory in sustainable development (2008-12) carrying out research studies for national & local governments, private sector and multilateral organizations, including the World Bank and WWF-for Nature. I started teaching in 2009 and till date have taught about 14 lecture and practical courses and supervised over 27 postgrad dissertation and thesis. From 2012-18, I was a part of the senior faculty in a public research institution, where I edited a research journal and contributed to the National Communications reporting to the UNFCCC and a project titled, Clean Energy in Asian Megacities supported by *Asia Pacific Network for Global Climate Change* (APN). In recognition of my research in rapidly developing countries, the UNEP-WMO selected me as the convenor for Climate Co-benefits in Emerging Economies in their 1st IPCC Cities Conference (2018) in Edmonton. In 2018, I received the prestigious Alexander von Humboldt funding to pursue research at Technical University Berlin. I reckon that my qualifications and research experience in sustainable development, climate policy and urban governance suitably align with the role and responsibility for Associate Professor position at the TERI School of Advanced Studies.

I have keen academic aptitude and research acumen in tackling challenging issues addressing multi-dimensional economic-environment linkages; infrastructure and technology, institutional & human capacities, governance models and innovations to realize sustainable transformations, particularly in complex and rapidly developing societies. On these subjects, I have published over 30 peer-reviewed research in scientific journals and 3 books with reputed publishers, including Routledge–Taylor & Francis, NY & London; Springer Nature and World Scientific Publishing, Singapore (the full list of publications is provided in the CV).

I have extensively delivered taught courses and invited lectures on global environment, societal and local policy issues to international students, particularly from European, US, Japanese and South Asian background at prestigious universities and institutes across the globe including UNU Tokyo, Freie University Berlin, Sophia University, International Centre for Environment Audit & Sustainable Development (ICED), Meiji Gakuin University, The Institute for Global Environmental Strategies (IGES) and the TERI School of Advanced Studies too. I have been invited as a jury member to international competitions, academic defences and as reviewer in peer-reviewed journals like EEMJ, JGRP and Climate Change (refer CV for details).

In the past, I have collaborated with researchers from prestigious research institutions, including UNU-IAS, UNEP-Tongji, Oxford Policy Management, London School of Economics, Northumbria University, The Polytechnic University of Milan (Italy), CNRS CERAPS Lille (France), Getulio Vargas Foundation (Brazil), Middle East Technical University (Turkey), Charles Darwin University (Australia); Kyoto University, Kyoto Women's University, Kyushu University, Tokyo Institute of Technology, Hokkaido University (all in Japan). I have a track record of being a part of several global research initiatives demonstrating strong analytical, networking and communication skills (written, group & interpersonal).

At TU Berlin, my academic and research is devoted towards contemporary developmental issues in the inter-disciplines of environment, economy, societies and governance. I teach in graduate courses on *Economics for Sustainability* (winter semester) and *Urbanization and Global Environmental Change* (summer semester). The work involves lectures, assignments and evaluation for a class of 20 M.Tech students. I also supervise postgraduate thesis on sustainability and climate policy, in particular covering multi-level governance issues in developing countries. In addition, every semester I offer special lectures on *Climate Change and the European Law* at the Freie University Berlin to a visiting batch of 20 students from multiple American universities.

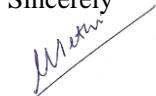
My present research focusses on systematic reviews of global policies in climate mitigation (feeding onto AR6 Report), climate co-benefits in emerging economies, students research project and collaborative research with international partners (please see CV for details). In addition, I have recently been conferred high value research grants from the *Asia-Pacific Network for Global Change Research* (APN) and the *K. Matsushita Foundation*, Japan. While serving at the TERI School of Advanced Studies, I would like to utilize my current research activities and teaching expertise to specifically meet inter-disciplinary and international research goals of your institution.

I firmly believe that my qualifications, experience in socio-technical and governance aspects of environment and proposed plans at the TERI School of Advanced Studies align with your expectations. I look forward to working with you and keenly anticipate an interview call to further discuss my research and teaching plans.

In case you require any additional information or clarifications, please feel free to communicate through either of the contacts given below.

A line on safe receipt of the CV at your end would be highly appreciated!

Sincerely



Mahendra Sethi

PhD, M Planning (Environment)

Recipient of UNU-IAS PhD Fellowship Award, Japan

Alexander Von Humboldt Research Fellow, Technical University Berlin, Germany

Visiting Researcher, Mercator Research Institute on Global Commons and Climate Change, Germany

Contacts:

Chair in Sustainability Economics & Human Settlements,

Faculty VI - Planning Building Environment Secretariat EB 4-2,

Technical University Berlin Str. des 17. Juni 145, 10623 Berlin, Germany

Phone: +49 (0)30 314-78864, +49 152 1299 5437

https://www.susturbecon.tu-berlin.de/menue/team/dr_mahendra_sethi/

mahendrasethi@hotmail.com; m.sethi@campus.tu-berlin.de

Enclosures:

1. A full Curriculum Vitae, including previous employment and university training, the date and title of the doctoral thesis, list of publications, conference presentations, names and contact information for three referees, etc.

Mahendra Sethi

Ph.D (Climate Change and Urban Settlements), M.Planning (Environment)

- AvH Research Fellow, Chair-Sustainability Economics in Human Settlements, TU Berlin, Germany
- Visiting Researcher, Mercator Research Institute on Global Commons & Climate Change
- Research Associate, Indian Society for Applied Research & Development, India
- UNEP-WMO supported Convenor at the 1st IPCC Cities Conference 2018, Edmonton
- Invited as Visiting Scholar 2017, Kyoto University, Japan
- Recipient of PhD Fellowship 2013-14, United Nations University– Institute of Advanced Studies, Tokyo
- Guest Faculty, Centre for Global Discovery Sophia University; Graduate Law School Meiji Gakuin University, Tokyo
- Editor, *Urban India* Journal, National Institute of Urban Affairs, India (2012-18)
- Early Career Researcher-Earth Systems Governance 2014, University of East Anglia, Norwich, UK



Experience: 15 years

Contacts: 769.03.06.03, Mollwitzstr.3, Berlin 14059, Germany, Tel: + 49 152 1299 5437,
mahendrasethi@hotmail.com m.sethi@campus.tu-berlin.de

Based in Berlin, I have both scientific and social bent of mind. My early schooling in London nurtured a creative outlook with futuristic vision. I believe in the dictum of “think global, act local”. I am involved in teaching, research, capacity building activities in climate and energy policy, environmental planning, human settlements, low carbon societies, transformations to sustainability, mountain development, global change and multi-level governance.

• Research Grants (recently conferred in 2020)

- Asia-Pacific Network for Global Change Research, CRRP2019-FP14-Sethi (Nov 2020-June 2023) USD 184,209
Title: Integrated climate action planning (ICLAP) 2050 tool in Asia-Pacific cities
- K. Matsushita Foundation, Grant Number 20-G51 (Oct 2020-Sep 2021): 490,000 JPY
Title: Eastern traditional values to promote contemporary sustainability behaviours
- Experience on environmental projects with World Bank, UNEP (Tongji Univ), WWF, Kashi USA, Oxford Policy Management, Getulio Vargas Foundation, Polytechnico de Milano, CNRS CERAPS Lille, LSE, Northumbria University, Kyoto University
- Training & Special lectures at: Freie University Berlin, Sophia & Meiji Gakuin Univ. Tokyo, School of Planning Delhi, TERI School of Advanced Studies, IGES Tokyo, Indian Institute of Public Administration, Internl Centre for Env. Audit & Sustainable Development.
- Peer-Reviewer for WIRE’s Climate Change (Wiley), Journal of Geography and Regional Planning (Academic Journals) and Env. Engg & Mgmt Journal (Gheorghe Asachi Technical University of Iasi, Romania)
- Diverse analytic skills: technical assessments, spatio-statistical analysis, machine learning, bibliometric, case study
- Excellent communication skills- inter-personal talk, technical presentations, report-writing, peer-reviewed papers
- Experience of working in a multi-cultural, multi-disciplinary environment with staff & external agencies
- Dedicated, motivational with ability to deal with complex situations using sound judgment and diplomacy

Affiliations & Accreditations

- Fellow, Alexander von Humboldt Foundation, Bonn, Germany.
- Research Associate, Indian Society for Applied Research & Development, India
- Special Member, Sub-committee on Climate Finance (2017-18), Government of India
- Visiting Scholar, Institute of Advanced Energy, Kyoto University, Japan
- Associate Member, Institute of Town Planners India
- Member, United Nations University Alumni Association
- Peer-Reviewer, WIRE’s Climate Change Journal; J/o Geography and Regional Planning, Academic Journals
- Peer-Reviewer, Env. Engg & Management Journal, Gheorghe Asachi Technical University of Iasi, Romania

Education Qualifications

PhD in Climate Change and Urban Settlements. Gautam Buddha University, Greater Noida, NCR Delhi, India. <u>Degree awarded on: 12 April 2016</u> The research was aimed at empirical deciphering the greenhouse gas contributions of cities to scientifically evaluate their responsibilities, policies and governance modes for climate mitigation. The research was founded on a robust spatio-statistical analysis of 50year data (1960-2010) of the UN, World Bank, IEA and CDIAC on economic development, urbanization status and GHGs of over 200 countries, that formed the basis for an evidence based decision-making tool. The research culminated into 4 peer-reviewed papers and a comprehensive monograph/book with Routledge, London	2012-2016 (working professional category)
PhD Fellowship, United Nations University-Inst. for the Advanced Study of Sustainability, Tokyo Upon review of 195 global applications, my doctoral research was selected by UNU-IAS to award PhD Fellowship (2013-14) to contribute to their research on Asian cities under M/o Environment Japan's Sustainable Urban Futures Program. This fellowship culminated into 3 peer-reviewed papers and laid foundation for a longstanding collaborative research on climate co-benefits by UNU and international researchers, that resulted into the publication of an edited book volume with Springer Nature..	2013-2014
M. Planning- specialization in Environmental Planning: 2yr fulltime course (with distinction) School of Planning & Architecture Delhi, India	2005-2007
Bachelor of Architecture: 5yr full time course TVB School of Habitat Studies, Guru Gobind Singh Indraprastha University, Delhi, India	1998-2003

Research and Professional Experience

Alexander von Humboldt Fellow Chair- Sustainability Economics in Human Settlements, Technical University Berlin Along with MCC Berlin, involved in intensive systematic analysis of 5635 global case studies on local climate solutions (published in <i>Environment Research Letters</i>) feeds into IPCC's upcoming AR6 report. The project utilizes complex analytics like bibliometric, machine learning and meta-analysis. I supervise a team of experts, researchers & co-teach post-graduate students. Based on project learning we are finalizing research papers and a course book on sustainability transitions in societies with the TU Berlin Press. I have also contributed to an urban mobility project titled Fair street space allocation: Ethical principles and empirical insights (in press, Taylor & Francis 2020). In addition, I am coordinating/ collaborating with multiple international agencies: <ul style="list-style-type: none"> • Newcastle Business School, Dept Entrepreneurship, Innovation & Strategy on smart cities • Kyoto Women's University on auto fuel quality change in Asia • European Commission, Asia Pacific Network and other global funders for research grants <i>For teaching activities, please refer Teaching section below</i>	Since Jan 2019
Editor (Group A, permanent position above Assistant Professor grade) National Institute of Urban Affairs (NIUA), New Delhi My job position was in the faculty of NIUA. It involved editing, documentations, dissemination, training and administrative responsibilities. I steered the national journal <i>Urban India</i> (ISSN: 0970-9045) and also edited other publications of the Institute. In research, I led the Ministry of Environment, Forests and Climate Change funded study on <i>Climate Change Impacts, Vulnerability and Adaptation in Urban Settlements</i> (2017-18) as part of the national reporting to the UNFCCC. It was first of its kind research that converged multiple global agendas like <i>Paris Agreement, Sustainable Development Goals</i> and <i>New</i>	May 2012- May 2018

Urban Agenda. My other international collaborative projects included:

2018: The **UNEP-WMO** sponsored me as the Convenor for *Climate Benefits in Emerging Economies in the 1st IPCC Cities Conference (2018) in Edmonton*, presenting cases of Brazil, Turkey, China & India.

2016-18: I was a part of international research project on **Asia Pacific Network/ APN's** Clean Energy Development in Asian Megacities led by **Institute of Advanced Energy, Kyoto University** under Prof (Dr) Hideaki Ohgaki and Dr. H. Farzaneh, Japan. I planned and supervised a full scale case study on New Delhi, covering electricity, mobility and waste to energy portfolios.

2015-17: I mentored a global team of 22 researchers from Getulio Vargas Foundation (Brazil), The Polytechnic University of Milan, Oxford Policy Management, CNRS CERAPS Lille (France), London School of Economics, Kyoto University, IIT Roorkee, SPA Delhi, SPA Bhopal towards a collaborative research on *Mainstreaming Climate Co-Benefits (economic, environmental and social) in Cities* (published by Springer Singapore in 2018).

2015-16: Partnership with experts from the Tokyo Institute of Technology and UNU-IAS (both in Japan), Faculty of Engineering, Health, Science and the Environment; Charles Darwin University, Darwin, Australia for research on *Delhi's land cover change in post transit era* (published in the journal *Cities* in 2016).

PhD Fellow, United Nations University-Institute for the Advanced Study of Sustainability, Japan

Advancing individual PhD research under the guidance of the PhD Supervisor. In addition to my doctoral studies, I contributed to the following research activities on Climate Co-benefits in Asian Cities project in the *Sustainable Urban Futures Programme*, sponsored by M/o Environment Japan:

- Co-design, co-production and co-dissemination of optimization tools for Cities and Climate Co-benefits in energy, transport, waste, governance and health (clean air).
- Initiated research on environmental & climate co-benefits assessment of projects in India

Sep
2013 -
Aug
2014
(on leave
from
NIUA)

Senior Urban Planner, Consulting Engineering Services, Delhi (now JACOBS Engineering, US)

Responsibilities included providing research advisory to multilateral donors, government agencies/ departments/ institutions, etc. for the following public policy, planning and management projects:

- Punjab's *State Action Plan for Climate Change* under National Action Plan for Climate Change
- Sustainable Development Plan, Bhagirathi River Valley Development Authority, Tehri Dam, India
- DPR for three IT Special Economic Zone/ Park in Punjab for Punjab Infotech, Govt. of Punjab
- Development Potential Study -Aden, Yemen-PCDP, World Bank: INTERNATIONAL PROJECT
- Sustainable Tourism Master Plan for Munnar Destination and Special Region, Govt of Kerala

Mar
2008-
Apr
2012

Planning Consultant, Building Materials & Technology Promotion Council

-under the Ministry of Housing & Poverty Alleviation, Govt of India, New Delhi

Involved in *project monitoring & appraisals* of DPR under JNNURM for detailed review of infrastructure, specifications, institutional mechanisms, financial allocation (Centre-State share), O&M, project scheduling, sustainability and convergence with other Govt. schemes. Also provided support in:

- Green Habitat: Guidelines for environmental friendly settlements and its implementation
- Model Plans for housing under 'Basic Services for the Urban Poor' program of the Govt of India.

Sep
2007-
Feb
2008
(part
time)

Project Architect, The Firm Consultants & Assistant Architect, DKS Alplan Pvt Ltd, New Delhi

- Ardee City, a 220Ac Planning & Housing (plotted and high rise) in Gurgaon, NCR
- WWF-India, Interpretation & Exhibition Centre, Bharatpur National Park
- Education Institution, Sirsa, Haryana for a religious-social organization
- Gwalior West New Town, Phase II -750 Ha for SADA-NCR Planning Board
- Kashi Assisted Living, Florida - Old Age Home & Villas for international clients

Jun
2003-
Jul
2005

Courses Taught, Research Supervised & Training Activities

Technical University of Berlin, Germany (2019- till date): As part of my current research position, I co-teach two masters courses: *Economics for Sustainability* (winter semester) and *Urbanization and Global Environmental Change* (summer semester). The work involves lectures, assignments and evaluation for a class of 20 students in M.Tech. The students from other programmes in the University are also permitted to attend the course. I also supervise postgraduate thesis on the sustainability and climate policy in emerging economies, in particular covering multi-level governance issues in developing countries. In addition, every semester I undertake training activities with (a) the European Commission funded summer school, and (b) Climate Change and the European Law course with a visiting batch of 20 students from American universities hosted at the Freie University Berlin.

Faculty, Jamia Millia Islamia (JMI) National University, New Delhi (2009-13 and 2014-18) and School of Planning & Architecture, New Delhi (2018)

I was involved in delivering lectures and conducting planning studios in postgraduate programmes in Planning, Ekistics (Human Settlements), Recreation and Urban Regeneration:

- M. Planning (Environmental), Sem 2: Resilient cities
- M. Planning (Regional), Sem 2: Climate change and its impacts
- M. Ekistics (Human Settlements), Sem 1: Lecture- Environment and Management of Natural Resources, Survey & Research Methodology, Studio- Area Appreciation
- M. Ekistics (Human Settlements), Sem 3: Studio- Master/ Zonal Planning, Dissertation
- M. Ekistics (Human Settlements), Sem 4: Lecture- Strategies for Settlement Planning, Thesis
- M. Urban Regeneration, Sem 1: Lecture- Planning Theory & Process
- M. Recreation Architecture: Sem 2: Lecture- Design & Planning Techniques, Sem 3: Dissertation

I have guided over 27 masters thesis and dissertations on contemporary themes of sustainability, natural resource management, biodiversity, carrying capacity, carbon footprint, local air-quality, water pollution, climate change, energy efficiency, transportation, local development, tourism and recreation, smart cities, sustainable habitat, urban-rural dynamics, hill area development, human migration, etc. Some notable topics included:

- Sustainable development planning in large cities
- Energy efficiency planning in megacities
- Integrated Urban Rural Development
- Hill area development in Himalayas
- Carrying capacity analysis in mountain habitats
- Inclusion of non-motorized mobility in transport
- Transformations of air quality in New Delhi
- Biodiversity assessment in urban ecosystems
- Tourism master plan in state of Himachal Pradesh
- Environmental governance in smart cities

Guest Faculty at Centre for Global Discovery, Sophia University and Graduate Law School, Meiji Gakuin University, Tokyo (2013-14) in teaching:

- Environmental Change & Human Development
- Environment & Sustainable Development in Environmental Law

Lecturer in training programmes to engineers, administrators, auditors, scholars, etc. on basic civic amenities, local governance and environmental issues at: The Institute for Global Environmental Strategies Tokyo, Indian Institute of Public Administration (IIPA) & TERI School of Advanced Studies, New Delhi, Himachal Institute of Public Administration, International Centre for Environment Audit & Sustainable Development (iCED), A.P.J. Abdul Kalam Technical University (formerly UP Technical University)

Curriculum Development & Research Funding

Involved in developing the following resource materials:

- (a) Study material on **Sustainable Societies**—policies and practices for EUREF & TU Berlin (ongoing), and
- (b) Training modules on **Urban Climate Resilience** for urban local bodies at NIUA (2017)

Developed the following lecture and studio courses at masters level:

- M. Planning (Regional): Consultations for improvements in the entire course at the School of Planning & Architecture, Delhi
- Masters (Sem 1): Lecture- Environment and management of natural resources, Planning Theory & Process
- Masters (Sem 1): Studio programme- Area Appreciation

- Masters (Sem 3): Studio programme- Zonal Planning
- Masters (Sem 4): Lecture- Strategies for Settlement Planning
- Masters (Sem 3/4): Scoping of research areas for dissertation and thesis.

Research project funding:

- Research grants to APN and the European Commission (applied in 2019)
- Secured funding and served as Principal Investigator for the project/ chapter on Vulnerability of & Adaptation for Climate Change in Urban Settlements, Government of India's NATCOM report to the UNFCCC (2016)
- Sustainable Development Planning Study for Bhagirathi River Valley Development Corporation, India (2011)
- Development Potential Study -Aden, Yemen under Port Cities Development Programme, World Bank (2009).

Conference Presentations and Invited Lectures

1. Invited for lectures and collaborative research- **sustainable and smart cities research** on 1 June, 2020 at Newcastle Business School, Dep Entrepreneurship, Innovation & Strategy, Northumbria University, Newcastle, UK.
2. Invited for special lecture **on Security in Climate Change Discourse: Analyzing the Divergence between US and EU** on 19 November 2019 at the Freie University Berlin
3. Presentation in **Berlin's Open Data Landscape** on 27 August, 2019, Open Data Informationsstelle, Berlin.
4. Invited for special lecture: **Ideas for climate impact** on 25 June 2019, European Institute of Innovation- KIC, Berlin
5. Presented paper on **A Critical Appraisal of Intangible Cultural Heritage Revival and Place Making in Jodhpur** at the National Seminar: Culture as a Fourth Pillar of Sustainable Development with the focus on Rejuvenation of Culturally Significant Cities, organized by Vastu Kala Academy and Indira Gandhi National Centre for the Arts (IGNCA), New Delhi on 10-11 November, 2018.
6. Invited and sponsored by **UNEP-WMO as Convenor for Climate Cobenefits in Emerging Economies**, on 5-7 March 2018 at the 1st IPCC Cities Conference, Edmonton, Canada
7. Invited for lecture and discussions at the **Expert Workshop on Climate Research Programmes in Asia** (supported by M/o Environment Japan) on 1-2 March, 2018 at Institute for Global Environmental Strategies (IGES), Tokyo.
8. **Clean Energy Development in Delhi: Targets and supporting strategies**, 3th *International Workshop on Clean Energy*, Institute of Advanced Energy, Kyoto University, Kyoto, 3 February 2018
9. Special lectures on **Cities and Climate Change, International Research Paradigms** followed by **Research Writing workshop** on 12-13 June 2017 at Faculty Development Programme at the Dr APJ Abdul Kalam Technical University, Lucknow, India
10. **Training of government auditors on Energy and Smart Cities** 2016 & 2017, at International Centre for Environment Audit and Sustainable Development, Jaipur, India
11. **Localizing the Global Urban Agenda**, 2nd *Smart Cities India Expo*, 11-13 May 2016, Pragati Maidan, New Delhi
12. **E3 (Economy, Energy, Emissions) Challenges in Human Settlements: Technology and policy alternatives**, 1st *International Workshop on Clean Energy*, Institute of Advanced Energy, Kyoto University, 28-29 March 2016.
13. **Smart water for smart cities**. 6th *Asia Energy Security Summit 2016*. 1-3 March 2016 at Goa, India
14. **Green growth for transforming societies** - redefining/ negotiating urban-rural carbon inequity, *International Symposium on Green Growth and Global Environmental Change*, UNU-IAS, Tokyo, Japan, 25-26 July 2014.
15. Invited for presentation on Global Climate Space Access & Allocation Inequities at **the International Forum for Sustainable Asia and the Pacific (ISAP)**, 23-24 July 2014, Pacifico Yokohama, Japan
16. **Who took my Carbon? Mapping spatial disparities in carbon access and allocation** – A paradigm shift from global 'North-South' to local 'Urban-Rural', on 1-3 August 2014 at the Norwich Conference of Earth System Governance on Access & Allocation, University of East Anglia, Norwich, UK.
17. Presented research '**Sustainable Urbanization in South Asia**' in **Regional Policy Dialogue** on 17-18 December, 2014 organized by UNESCAP, NIUA and MOUD, New Delhi, India
18. **Knowledge Gaps & Research Initiatives in Co-benefits in Urban Areas**. *International Workshop on Sustainable Cities: Generating Climate Co-benefits in the Urban Areas*. Organized by UNU-IAS, APN and SPA, Bhopal, India. 2- 3 Dec 2013

19. **Young Researcher's Seminar: Inter-disciplinary Inquiry into the Contemporary Issues**, Indira Gandhi National Open University, New Delhi, India on 1-2 April 2013.
20. **TERI Rockefeller International Workshop on Resilient Cities**- Experience from Asian Cities Climate Resilient Network (ACCRN) for Asia and Beyond, NIUA New Delhi on 29 January 2013.
21. **Seminar on Local Development through Good Governance**- Best Practices in India and France, by Alliance Franchise, New Delhi, 6 December, 2012.
22. **International Workshop: Towards A 2nd Generation of City Development Plan**, New Delhi jointly organized by WBI, CDIA, Cities Alliance, Metropolis, MoUD, NIUA on 12 October 2012
23. **Urban Regeneration- Architecture for Masses IV**, Jamia Millia Islamia National University, Delhi; 24-25 March 2011
24. Special lecture on **Capacity Building for Integrating GI and EO technologies in Mountain Development Planning** – An Indian Perspective. Posted on: 17.01.2008 on *Mountain GIS e-conference*, 14-25 Jan 2008

Publications

1. **Sethi, M.**, Creutzig, F., Lamb, W., Minx, J. (2020) Climate change mitigation in cities: A systematic scoping of case studies. *Environmental Research Letters: Special Issue on Demand Side Solutions for Transitioning to Low-Carbon Societies*
2. **Sethi, M** (under review). Policy Analysis of Sustainable Initiatives in Urban Energy Systems. *Review of Policy Research*. Wiley (WIT Press)
3. **Sethi, M** (2020). Climate Co-benefits in Rapidly Urbanizing Emerging Economies: Scientific and Policy Imperatives, in W. Buchholz et al. (eds.), *Ancillary Benefits of Climate Policy*, Springer Climate, https://doi.org/10.1007/978-3-030-30978-7_17
4. **Sethi, M.** (2020) Challenges for fuel quality change in India in Eds, Suwa & Iguchi. *Sustainability and the Automobile Industry in Asia: Policy and Governance*. New York: Routledge
5. Saha, S.K., **Sethi, M.**, & Gupta, A.K.S. (2020). Visualizing Environmental Impact of Smart New Delhi. In Kumar, T.M.V (Ed.). *Smart Environment for Smart Cities* (pp. 309-345). Springer, Singapore.
6. **Sethi, M.** (2019). Targets and Supporting Strategies for the Clean Energy Development in Delhi. In *Devising a Clean Energy Strategy for Asian Cities* (pp. 135-163). Springer, Singapore.
7. **BOOK: Sethi, M.** and Puppim de Oliveira, J.A. (Eds) (2018). *Mainstreaming Climate Co-benefits in Indian Cities- Innovations & reforms in Post-Habitat III*. (ISBN: 978-9811058158). Singapore & New Delhi: Springer Nature.
8. **BOOK: Singh, B.** and **Sethi, M.** (2018). *The Divided City- Ideological and Policy Contestations in Contemporary Urban India* (ISBN: 9789813226975). Singapore: World Scientific Publishing.
9. **Sethi, M** and Dhingra, M. (2018). A Critical Appraisal of Intangible Cultural Heritage Revival and Place Making in Jodhpur Proceedings of the National Seminar: Culture as a Fourth Pillar of Sustainable Development with the focus on Rejuvenation of Culturally Significant Cities (ISBN: 978-93811 31022). New Delhi: Vastu Kala Academy and Indira Gandhi National Centre for the Arts, pp..193-210.
10. Puppim de Oliveira, J.A. and **Sethi, M.** (2017). Climate inequalities are moving from North-South to urban-rural. E-published in Citiscope at <http://citiscope.org/commentary/2017/06/climate-inequalities-are-moving-north-south-urban-rural> on June 12, 2017
11. **BOOK: Sethi, M.** (2017). *Climate Change and Urban Settlements – A spatial perspective of carbon footprint and beyond* (ISBN: 9781138226005). London, U.K: Taylor & Francis- Routledge
12. Patterson, J., Schulz, K., ..., **Sethi, M.**, Barau, A. (2016). Exploring the Governance and Politics of Transformations Towards Sustainability, *Environmental Innovation and Societal Transitions - Elsevier* <http://dx.doi.org/10.1016/j.eist.2016.09.001>
13. Puppim de Oliveira, J.A and **Sethi, M.** (2016). A New Rural-Urban Agenda for Climate Governance. *UNU Our World* accessible at <https://unu.edu/publications/articles/a-new-rural-urban-agenda-for-climate-governance.html> on 14 October.
14. **Sethi, M.** (2016). Innovations to Usher Urban Sustainability. *Urban Update*, 3(4), 34-35
15. Ahmad, S., Avtar, R., **Sethi, M.**, Surjan, A. (2016). Delhi's land cover change in post transit era. *Cities*, 50, 111–118

16. **Sethi, M** & Mohapatra, S. (2016). Local Governance during Global Change- Aligning development and climate co-benefits, *Local Government Quarterly* 86(1),15-34
17. Mittal, S. & **Sethi, M** (2016). Are Smart Cities for Real: Will they bring qualitative improvement in urban living?, *SPANDREL* 2015-16 special issue on Making Cities Smart and Competitive (11),1-12
18. **Sethi, M.** (2015). Smart Cities in India: Challenges and Possibilities to attain Sustainable Urbanisation. *Nagarlok*, 47(3) 2015, 20-37.
19. **Sethi, M.** and Puppim de Oliveira, J.A. (2015). From Global 'North-South' to Local 'Urban-Rural': A shifting paradigm in climate governance? *Urban Climate* 14(4), 529–543
20. **Sethi, M.** & Mohapatra, S. (2015). Cities and Climate Change: Challenges in estimation of potential co-benefits. *Nagarlok*, 47(1) 2015, 1-17.
21. **Sethi, M.** (2015). Urban Response to the 'Dizzy Goals Challenge'. *Urban Thinkers Campus*. Posted on September 21, 2015 at <http://utc.niua.org/urban-response-to-the-dizzy-goals-challenge/>
22. **Sethi, M.** (2015). Mapping Global to Local Carbon Inequities in Climate Governance- A conceptual framework, *International Journal of Development Research*, 5(8), pp. 5387-5397, August, 2015.
23. Mittal, S. & **Sethi, M.** (2015). Gender Inequities in India's Urban Governance, *International Journal of Science and Research*, 4(8), pp.1069-1073, August 2015.
24. **Sethi, M.** (2015). Decoding Urban India's Carbon Footprint: Spatial-numerical mapping of thermal energy emissions *Current Science*, 1616-1623, May 2015.
25. **Sethi, M.** & Sethi, S. (2015). Smart Cities: Pathways for legitimate planning and governance, *Journal of Development Management and Communication* 2(1), pp1-7. January-March, 2015.
26. **Sethi, M.** (2015). Location of greenhouse gases (GHG) emissions from thermal power plants in India along the urban-rural continuum, *Journal of Cleaner Production*, 103 (2015), 586-600
27. **Sethi, M.** (2014). Editorial- Capacity Building in Urban Areas, *Urban India*, Vol.34 (2), 1-6.
28. **Sethi, M.** (2014). India needs to be clever about smart cities published in *East Asia Forum*, Canberra (<http://www.eastasiaforum.org/2014/10/02/india-needs-to-be-clever-about-smart-cities>) in October 2014.
29. **Sethi, M.** & Subhakanta Mohapatra (2013). Governance Framework to Mitigate Climate Change: Challenges in Urbanising India. In Huong Ha & Tek Nath Dhakal (Eds.), *Governance Approaches to Mitigation of and Adaptation to Climate Change in Asia*, Palgrave Macmillan, pp. 200-230
30. **Sethi, M.** (2011). Alternative perspectives for land planning in today's context- minimizing compensation issues; *Indian Valuer: Journal of Institution of Valuers*, RNI No. 17683/69 April 2011,
31. **Sethi, M.** (2011). Land as a Resource for Sustainable Urban Development- An environmental resource perspective, *Working papers of 59th ITPI Congress Proceedings*, Feb 2011.
32. **Sethi, M.** (2007). Teaching History, Culture & Evolution of Human Settlements, *ITPI Journal*, Vol 4(3); Jul-Sep 2007.
33. **Sethi, M.** (2004). Marketing for Designer Homes and Real Estate – en route extra value perception (EVP). *Architecture + Design (A+D)*, July 2004
34. **Sethi, M.** (2004). Negotiating the Modern-II, *Architecture- Time, Space & People. Journal of Council of Architecture*. February 2004.
35. **Sethi, M.** (2003). Negotiating the Modern-I, *Architecture- Time, Space & People. Journal of Council of Architecture*. December 2003.
36. **Sethi, M.** (2003). Golden Temple: Epitome of Nanak's Faith. *Bhavan's Journal*, Bhartiya Vidya Bhavan.
37. **Sethi, M.** (2003). Living for a Cause– A feature on Laurie Baker. *Construction Journal*

Administrative/ Management Responsibilities

I have had about 10 years of administration and mentoring experience in senior positions in both private and public sector. As Senior Urban Planner at the Consulting Engineering Services (I) Pvt Ltd., I managed personnel and monetary resources in respective projects. As Co-PI, I supervised day to day activities of 2 professional, 2 administrative staff and

about 4 to 12 technical and field staff in different projects. The administrative responsibilities included periodical project review and monitoring, adherence to ISO quality standards and documentation. For 2 years, I was in charge for quality review for my department and a member of the screening panel for recruitments.

My position at the National Institute of Urban Affairs (2012-18) was Group A post as per Government of India Rules, which included planning and managerial responsibilities. My administrative responsibilities included staff supervision (2 Research Officer, 1 Research Analyst, 1 Secretarial), controlling tendering process in publications, subscriptions management, procurements, record keeping and dealing with complaints. I was conferred several administrative responsibilities from time to time, including head of several internal panels; member of enquiry and financial committees, external engagements like guest member in ministerial committees on Climate Change to the Government of India, designee to receive Member of Parliament/ international guests, amongst others.

As AvH Research Fellow (2019- till date) at the Technical University Berlin, I have administrative responsibilities related to assisting the Chair Professor of my faculty in day to day functions. In my project, I supervise a team of 5 experts & junior researchers. I act as the vital link between the teaching faculty and the university administration in project activities, procurements, recruitment, academics, repository, evaluation & monitoring.

Experience of working in/ collaborating with International institutions

- Working on projects with Kashi USA (2004), WWF for Nature (2005) and PCDP programme, World Bank (2009)
- United Nations University– Institute of Advanced Studies, Tokyo: PhD Research (2013-14)
- Sophia University Centre for Global Discovery, Tokyo: Guest lectures on Environmental Change & Human Development (2014).
- Meiji Gakuin University, Graduate Law School, Tokyo: Guest lectures on Environment & Sustainable Development in Environmental Law (2014).
- UNEP (Tongji Univ) and Kyoto University, Institute of Advanced Energy: APN's Clean Energy Development in Asian Megacities Project with Prof (Dr) Hideaki Ohgaki and Dr. H. Farzaneh (2016-18) and Visiting Scholar (February 2017).
- Institute for Global Environmental Strategies (IGES), Tokyo: Invited for the Closed Expert Workshop on Climate Research Programmes in Asia (supported by M/o Environment Japan) on March 1-2, 2018
- Kyushu University: Collaborated to organize a Joint Workshop for Clean Energy in New Delhi (2018)
- Working on research on climate co-benefits with Oxford Policy Management, Getulio Vargas Foundation, Polytechnico de Milano, CNRS CERAPS Lille, London School of Economics (2017-18)
- Training & Special lectures at Freie University Berlin (2019), School of Planning Delhi, TERI School of Advanced Studies, and the Internl Centre for Env. Audit & Sustainable Development (2017)
- Kyoto Women's University: Contributing to a joint research on Sustainability and the Automobile Industry in Asia led by Prof (Dr) Aki Suwa. Currently collaborating on APN, Matsushita Foundation and Sumitomo Foundation project proposals (2020).
- Collaborating on sustainable and smart cities research with Northumbria University, Newcastle University (2020).
- Hokkaido University/ Kyushu University: Collaboration with researchers towards APN Project Proposal (2020)

Language & Analytical Skills

- English (excellent writing, communication, and presentation skills), German (elementary), Hindi (proficient)
- Good command on MS Word, MS Excel, MS Power point, MS Project, AutoCad, Stata
- Spatial-Statistical Analysis, Market Research Surveys, Institutional & Stakeholder Analysis, Visualizations & Case study methods
- Excellent interpersonal skills and experience of working in a multi-cultural, multi-disciplinary environment with staff and external stakeholders at all levels.
- Ability to respond and deal effectively with diverse situations using good judgment, tact, and diplomacy

Awards & Achievements

- **Alexander von Humboldt Research Fellowship Award (2018-20)** at Technical University Berlin, Germany.
- **UNU-IAS PhD Fellowship Award (2013-14)** at United Nations University – Institute of Advanced Studies, Tokyo
- **Government of India GATE Scholarship (2005-07)** at Masters level by M/o Human Resources & Development
- **Liverpool University Scholarship** offered for Masters in Town Planning in 2005
- **Scored 1st Position at IIT-Roorkee** for Masters in Urban & Rural Planning 2005 entrance exams

Personal Information

- Nationality- Indian
- Date of Birth- 30 July 1980
- Dependents- Wife and 2 children, aged 5 & 8.
- Interests in traveling, listening music, poetry, sketching, watching inspirational videos

References

Prof. Dr Felix Creutzig

Chair of Sustainability Economics at Technische Universität Berlin (TUB)
& Mercator Research Institute on Global Commons and Climate Change
Torgauer Str. 19, 10829 Berlin, Germany
Telephone: +49 30 3385 537 -225
Email: creutzig@mcc-berlin.net; creutzig@tu-berlin.de

Prof (Dr) Felix Creutzig is acquainted with my research since 2016, and currently my host professor at TU Berlin.

Prof. Dr Aki Suwa

Professor, Kyoto Women's University
Postal Address: 605-8501 35 Kitahiyoshi-cho,
Imagumano, Higashiyama, Kyoto
Telephone: +81 090 8109 8145
Email: suwa@kyoto-wu.ac.jp

Prof (Dr) Aki Suwa knows me as a former colleague at the United Nations University, Tokyo since 2013. I have worked under her supervision and collaboration. She is acquainted with my research and career progression in the last 7 years.

Prof. Dr Shovan K. Saha

Postal Address: Dean, School of Architecture & Planning,
Sharda University Plot No. 32-34, Knowledge Park III,
Greater Noida, Uttar Pradesh 201306
Telephone: 91-9810249324
Email: shovanksaha@gmail.com

Prof (Dr) Shovan K. Saha had been a tutor (2005-07) and later a project/ research collaborator and co-author in several initiatives. He is acquainted with my academic career for the last 15 years.

Dr. Mahendra Sethi

Berlin, August 2020