

Prof. Venkatesh Dutta

Professor

Department of Environmental Science

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Education Qualification

	Organization	Year of award
Undergraduate	Ramjas College, University of Delhi	1999
Post-graduation	University School of Environment Management, Indraprastha University, New Delhi	2001
Ph.D.	TERI School of Advanced Studies, New Delhi	2007
Post-Doctoral Training	University of Maryland, USA	2011 & 2012

Certificate courses/Professional training

One-Week Training Programme on “Climate Change and Hydrological Impact Assessment”, January 25 – 29, 2021, **National Institute of Hydrology (NIH), Roorkee**

Three-Weeks National Training Programme on “Hydro-meteorological and Extreme Events Disaster Risk Management”, June 1, 2020 to 21 June 2020, **IIT Indore** and **NIDM, New Delhi**

Training Workshop/Faculty Development Programme (FDP) on “Environment, Biodiversity and Disaster Risk Management”, March 2, 2020 to March 6, 2020, DES, BBAU and **NIDM, New Delhi**

Training Course “Science, Technology and Innovation Policy for Turbulent Times”– Science Policy Research Unit (SPRU), 17 – 21 June, 2019, **University of Sussex, UK**

One Week “Science & Technology Policy Leadership Program” – American Academy of Advancement of Sciences (AAAS) Leadership Seminar, 5 – 9 November 2018, **Washington DC, USA**

Certificate course on “Sustainable River Basin Management”, July to September 2015, NPTEL & **IIT Madras**, MHRD, Govt. of India

Refresher Course in Research Methodology (ID) at UGC-Academic Staff College, **University of Delhi, Delhi**, June 15 – July 04, 2015 (03 Weeks)

Certificate of Advanced Studies in “Role of Technologies for Sustainable Development” from **EPFL, Lausanne**, 2010: Successfully completed in the areas of Technology Policy, Sustainable Development

Professional Experience

Teaching Experience: 16 Years

Research Experience: 21 Years

Areas of Research

- Water Resource Management
- Environmental Management & Modelling
- Urban & Regional Planning
- Environmental Impact Assessment (EIA)
- Environmental Policy

List of courses/subjects taught/teaching

M.Sc./Ph.D (Environmental Sc.)

ESM 101: Biostatistics

ESM 201: Environmental Geosciences and Remote Sensing Application

ESM 302: Water Quality Modelling

ESM 303: Environmental Management and EIA

ESM 301: Natural Resources Economics

Research/Consultancy Grants

Title of Projects	Funding Agency	Duration (Specific Dates)	Total grant	Role (PI/CO-PI)
Science, Technology and Innovation hub in North India (Uttar Pradesh, Uttarakhand and Himachal Pradesh), (Co-PI)	Department of Science & Technology (DST), Govt. of India	2019 – 2022	2.35 Cr	Co-PI
DST Centre for Policy Research	DST, New Delhi	5 Yrs (2014-15 to 2019-20)	2.45 Cr	Co-PI
Multi-criteria spatial system for evaluating environmental impacts of land use change in urban and peri-urban limits using remote sensing and GIS	Indian Space Research organization (ISRO)	2 Yrs (August 2009 – December 2011)	10.5 lakhs	PI

State Water Profile of Bihar	WaterAid India	6 months (2018)	2 lakhs	PI
Preparation of 5 years Action Plan for Ground Water Recharge Schemes in Bheetargaon Block of Kanpur Nagar District	Ground Water Department. Govt. of Uttar Pradesh	2014 -2015	90,200/-	PI
Ground Water Quality Assessment of Kanpur Nagar and Kannauj Districts in pre and post monsoon of 2014 - 15 & 2015 - 16	Ground Water Department, Govt. of Uttar Pradesh	2 Yrs 2014-16	9.75 lakhs	PI

Publications

International
<i>Dutta, V., Dubey, D., & Kumar, S. (2020) Cleaning the River Ganga: Impact of lockdown on water quality and future implications on river rejuvenation strategies. Science of The Total Environment, 743: 140756. (IF: 6.551)</i>
Mishra, J., <i>Dutta, V.</i> & Arora, N.K. (2020) Biopesticides in India: technology and sustainability linkages. <i>3 Biotech</i> 10, 210 (2020). https://doi.org/10.1007/s13205-020-02192-7 (IF: 1.798)
Sharma, U., & <i>Dutta, V.</i> (2020) Establishing environmental flows for intermittent tropical rivers: Why hydrological methods are not adequate? <i>International Journal of Environmental Science and Technology.</i> 17, 2949–2966. https://doi.org/10.1007/s13762-020-02680-6 (IF: 2.540)
Kumar, Saroj, Sampurna Nand, Divya Dubey, Bhanu Pratap, and <i>Venkatesh Dutta</i> (2020) Variation in extracellular enzyme activities and their influence on the performance of surface-flow constructed wetland microcosms (CWMs). <i>Chemosphere</i> (2020): 126377. (IF: 5.778)
Aggarwal, D., Kumar, N. & <i>Dutta, V.</i> (2020) Impact on endangered Gangetic dolphins due to construction of waterways on the river Ganga, India: an overview. <i>Environmental Sustainability</i> (2020). https://doi.org/10.1007/s42398-020-00104-2
Iqbal, K., Ahmad, S. & <i>Dutta, V.</i> (2019) Pollution mapping in the urban segment of a tropical river: is water quality index (WQI) enough for a nutrient-polluted river? <i>Applied Water Sciences</i> 9: 197. https://doi.org/10.1007/s13201-019-1083-9
<i>Dutta, V., Vimal, M., Singh, S. and Singh, R.P.</i> (2019) Agricultural practices in a drought-prone region of India: opportunities for S&T innovations. <i>World Journal of Science, Technology and Sustainable Development</i> , 16(4) 208 - 226. Emerald, UK https://doi.org/10.1108/WJSTSD-04-2018-0019
Kumar, S. and <i>Dutta, V.</i> (2019) Constructed wetland microcosms as sustainable technology for domestic wastewater treatment: an overview, <i>Environmental Science and</i>

Pollution Research, 26(12): 11662–11673 <https://doi.org/10.1007/s11356-019-04816-9> (IF: 3.056)

Kumar, N., Gautam, A., Dubey, A.K., Ranjan, R., Pandey, A., Kumari, B., Singh, G., Mandotra, S., Chauhan, P.S., Srikrishna, S. and Dutta, V. (2019) GABA mediated reduction of arsenite toxicity in rice seedling through modulation of fatty acids, stress responsive amino acids and polyamines biosynthesis. *Ecotoxicology and Environmental Safety*, 173, pp.15-27. <https://doi.org/10.1016/j.ecoenv.2019.02.017> (IF: 4.872)

Bajpai, O., Dutta, V., Chaudhary, L.B. and Pandey, J., (2018) Key Issues and Management Strategies for the Conservation of the Himalayan Terai Forests of India. *International Journal of Conservation Science*, 9(4): 749 – 760.

Saini, M., Dutta, V., Singh, N.P. and Bajpai, O. (2018) Modeling and assessing land-use and hydrological regimes to future land-use scenario for sustainable watershed management in a semi-arid region of southern India. *Environmental Sustainability*, 1(4), pp.393-409.

Dutta, V., N. Fatima, and N. Kumar (2018) Excessive fluoride in groundwater of Central Ganga Alluvial Plain: a case study of Fatehpur, North India. *International Journal of Environmental Science and Technology* (2018): 1-8. <https://doi.org/10.1007/s13762-018-2145-5> (IF:2.540)

Dutta, V., Sharma, U., Iqbal, K., Kumar, R. and Pathak, A.K. (2018) Impact of river channelization and riverfront development on fluvial habitat: evidence from Gomti River, a tributary of Ganges, India. *Environmental Sustainability*, pp.1-18.

Kumar. S., Sundar. S., Dutta. V. and Sobti. R. C. (2018) Nanomedicine with Reduced Drug Toxicity Capacity against Leishmaniasis: Current and Future Prospects, *Advanced Science, Engineering and Medicine*, 10(1-5): 2018.

Naladala, N. R., Singh, R., Katiyar, K. L. D., Bose, P., & Dutta, V. (2017) Effect of Pre-ozonation on Haloacetic Acids Formation in Ganga River Water at Kanpur, India. *Journal of The Institution of Engineers (India): Series A*, 1-8. DOI 10.1007/s40030-017-0226-y

Dutta, V; Sharma, U. and Kumar, R. (2017) Assessment of river ecosystems and environmental-flows: Role of variable flow regimes and physical habitat variables, *Climate Change and Environmental Sustainability*, 5(1): 20 - 34.

Dutta, V., Dasgupta, P., Hultman, N., and Gayatri, G. (2016) Evaluating expert opinion on India's climate policy and barriers to low-carbon inclusive growth, *Climate and Development*, 8(4): 336-350, DOI: 10.1080/17565529.2015.1067181 (IF: 2.471)

Dutta, V., Kumar, R., & Sharma, U. (2015) Assessment of human-induced impacts on hydrological regime of Gomti river basin, India, *Management of Environmental Quality*, 26(5):631 – 649. <https://doi.org/10.1108/MEQ-11-2014-0160> (ISSN: 1477-7835)

Dutta, V. and Tiwari, V. K. (2015) Environmental Impact Assessment (EIA) of housing colonies in Lucknow city, India with special reference to land capability and spatial development using AHP and GIS, *Environment and Urbanisation Asia*, 6(2):176-192

Tiwari, V. K., Dutta, V., & Yunus, M. (2014) Assessment of Post-Project Compliance of Environmental Impacts of Housing Projects in Lucknow City Using Leopold Interaction

Matrix, *Environmental Management and Sustainable Development*, 4(1), 29-47.

Kumar, S., Dutta, V., and Jain, S. (2014) Locating the Livelihood Problems for the Promotion of Sustainable Life in Slums of Dehradun, Uttarakhand, India using Ikonos High Resolution Satellite Image IOSR, *Journal of Environmental Science, Toxicology and Food Technology*, 8(1): 31 – 36.

Tiwari, V. K., Dutta, V., & Yunus, M. (2014) A Comparative Study of Environmental Impact Assessment Reports of Housing Projects of Lucknow City, Uttar Pradesh, India, *Journal of Environmental Science and Technology*, 2(1), 6-14.

Archana and V. Dutta (2014) Seasonal Variation on Physico-Chemical Characteristics of Leachate in Active and Closed Municipal Solid Waste Landfill Site in Lucknow, India, *Journal of Environmental Science and Technology*, 1(4): 90-95.

Dutta, V. (2012) Land use Dynamics and Peri-urban Growth Characteristics: Reflections on Master Plan and Urban Suitability from a Sprawling North Indian City, *Environment and Urbanization*, Sage Publications, 3(2):277 – 301.(IF: 1.614)

Dutta, V., Singh, A. and Prasad, N. (2010) Urban sprawl and water stress with respect to changing landscape: study from Lucknow, India, *Journal of Geography and Regional Planning*, Vol. 3(5):2010, pp. 84-105.

Dutta, V. and Verma N M P (2009) Water Pricing, Affordability and Public Choice: an Economic Assessment from a Large Indian Metropolis, *International Journal of Economics and Finance*, Vol. 1, No. 2, USA.

Dutta, V., Chander, S., and Srivastava L. (2005) Public Support for Water Supply Improvements: Empirical Evidence from Unplanned Settlements of Delhi, India, *International Journal of Environment and Development*, Vol. 14, No. 4, pp. 439 – 462, Sage Publications, University of California, San Diego, USA. (IF: 3.156)

Dutta, V. and Tiwari, A. P. (2005) Cost of Services and Willingness to Pay for Reliable Urban Water Supply: A Study from Delhi, India, *Journal of Water Science and Technology: Water Supply* Vol. 5 No 6, pp. 135–144, IWA Publishing, UK. (IF: 1.638)

National

Sharma, U., Adeeba & Dutta, V. (2020) Impact of Declining Groundwater Levels on River Flows in the Ganga Alluvial Plain-A Case Study of Gomti River, India, *Indian Journal of Ecology* 47(1): 40-48

Bajpai, O., Dutta, V., Singh, R., Chaudhary, L. B., & Pandey, J. (2020) Tree Community Assemblage and Abiotic Variables in Tropical Moist Deciduous Forest of Himalayan Terai Eco-Region. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 1-11. ISSN: 2250-1746

Sharma U, Dutta V. (2019) Impact assessment of channelization on river corridors of a major tributary of Ganges, India using geo spatial techniques, *Ecology, Environment and Conservation*, Vol 25, July Suppl.,; pp.S18-S25

Sinha SK, Subramanian KA, Dutta V. (2018) India's Progress and Plan of Action in

Addressing Climate Change and Its Role in Setting an Effective, Cooperative and Equitable Climate Policy Architecture. *Climate Change and Environmental Sustainability*, 6(1):1-5 (ISSN: 2320-6411)

Dutta, V. and Kumar, S. (2013) Assessment of peri-urban interface of Lucknow region with special reference to land use change and environmental vulnerability, *Climate Change and Environmental Sustainability*, 1(2): 159 – 173.

Chaudhary, S., Ahmad, S. and Dutta V. (2012) Study on solid waste management in different income groups of Lucknow, *Asian J. of Environmental Science*, 7(2): 210 – 214.

Dutta, V., Srivastava, R. K., Yunus, M., Ahmad, S., Pathak, V. V., Rai, A. and Prasad, N. (2011) Restoration Plan of Gomti River with Designated Best Use Classification of Surface Water Quality based on River Expedition, Monitoring and Quality Assessment, *Journal of Earth Science India*, Vol. 4(III), pp. 80-104.

Dutta, V., and Tiwari, A. P. (2005) Pricing water - Reflections on the Increasing Block Pricing policy of Delhi's water utility, *Journal of Indian Buildings Congress*, New Delhi, Vol. XII, No. 1 (2005), pp. 233 – 243.

Dutta, V. (2004) A conceptual inquiry into sustainability criteria for urban water systems, Urban India, *Journal of National Institute of Urban Affairs*, New Delhi, XXIV, No. 2 (2004), pp. 89 – 131.

Book Chapters

Kumar, S., Pratap, B., Dubey, D. and Dutta, V. (2020) Microbial Communities in Constructed Wetland Microcosms and Their Role in Treatment of Domestic Wastewater. In *Emerging Eco-friendly Green Technologies for Wastewater Treatment* (pp. 311-327). Springer, Singapore.

Dutta, V., Sharma, U., & Kumar, R. (2020) Restoring Environmental Flows for Managing River Ecosystems: Global Scenario with Special Reference to India. In *Environmental Concerns and Sustainable Development* (pp. 163-183). Springer, Singapore.

Dubey, D. and Dutta, V. (2020) Nutrient Enrichment in Lake Ecosystem and Its Effects on Algae and Macrophytes. In *Environmental Concerns and Sustainable Development* (pp. 81-126). Springer, Singapore.

Kumar, S. and Dutta, V. (2019) Efficiency of Constructed Wetland Microcosms (CWMs) for the Treatment of Domestic Wastewater Using Aquatic Macrophytes. In *Environmental Biotechnology: For Sustainable Future* (pp. 287-307). Springer, Singapore. ISBN: 978-981-10-7283-3

Grasso, M. and Dutta, V. (2018) A comparative assessment of climate policies of top global emitters and evolution of an effective climate regime. *Globalisation, Environment and Social Justice: Perspectives, Issues and Concerns*, p.22. Taylor & Francis. ISBN: 978-0-8153-6887-8

Verma, N.M.P. and Dutta, V. (2013) Understanding Recession: Conceptual Arguments and US Adjustments in Verma, N. M. P. (et al.) Verma, NMP (Ed.) *Recession and Its Aftermath: Adjustments in the United States, Australia, and the Emerging Asia*, Springer, ISBN 978-81-322-0532-6.

Dutta, V. (2010) A critical assessment of the proposed UP Groundwater Bill – 2010 and its implementation strategies, in R. N. Bhargava, R. S. Sinha and V. Dutta (eds.): Sustainable Groundwater Management – Action and Implementation Strategies for Uttar Pradesh, UNICEF, SWARA & SBI, Connoisseur Publications, Lucknow, 221 pages.

Dutta, V. (2010) The political economy of water supply reforms lessons from an urban water utility, in K. R. Gupta and P. Maiti (eds.): Urban Development Debates in the New Millennium: Studies in Revisited Theories and Redefined Praxes, Vol. 5, Atlantic Publishers & Distributors (P) Ltd., New Delhi, 272 pages.

Sinha, R. S., Bhargava, R. N., Chaurasia, G., Dhanwantri, K., and Dutta, V. (2010) Emerging scenario of depleting urban groundwater in UP with special reference to Lucknow, in R. N. Bhargava, R. S. Sinha and V. Dutta (eds.): Sustainable Groundwater Management – Action and Implementation Strategies for Uttar Pradesh, UNICEF, SWARA & SBI, Connoisseur Publications, Lucknow, 221 pages.

Dutta, V. (2009) Water demands through differential quality water supply from groundwater and surface water, in Improving Integrated Surface and Groundwater Resources Management in a Vulnerable and Changing World, IAHS Red Book Series, IAHS Press, UK.

Policy Document

1. Water Policy of Uttar Pradesh 2020, UP Water Management Regulatory Commission, Govt. of Uttar Pradesh (State Govt.)
2. District Environment Plan of Lucknow 2020, Govt. of Uttar Pradesh (State Govt.)

Authored Books

Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.

Edited Books

Author/s (Year), Title, Name of Book, Publisher, Edition, ISBN No., Page no.

Dutta, V. (2021)	Water Conflicts and Resistance - Issues and Challenges in South Asia	Routledge, UK	9780367367299	368p.
Sobti, R. C. and Dutta, V. (2016)	Bridging the Science Policy Gap for Inclusive Growth in India,	Narendra Publishing House, Delhi	978-93-84337-53-7	240p.
R. N. Bhargava, R. S. Sinha and V. Dutta (2010)	Sustainable Groundwater Management – Action and Implementation	UNICEF, SWARA & SBI, Connoisseur Publications,	978-81-910419-6-5	221p.

	Strategies for Uttar Pradesh	Lucknow		
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Patents

	Inventors	Title and Award/Application no.
Awarded		
Published		
Filed		

Research Supervision

	Completed	Ongoing
PG/M.Phil	35	
Ph.D	5	5
Post-Doctoral	3	

Honors, Recognition and Awards

- Springer Society Award 2020
- Fulbright Nehru Fellowship, University of Maryland, College Park, US
- British Chevening Fellowship, FCO, University of Wales, Bangor, UK
- UNITAR Fellowship, United Nations Institute of Training & Research & EPFL, Lusanne
- GDN Medal finalist, 2008 (Kuwait) & 2012 (Budapest)
- GDN (Global Development Network) Research Medal for best paper on Development (\$8000), St. Petersburg, Russia
- Sir Ratan Tata Trust Travel Award
- Kanchan Aron Memorial Award 2018 by Swayam Siddha, Lucknow during Environmental Awareness Event 2018 – Living Within Our Ecological Footprints, 23rd August 2018
- Global-Preneurship Icon 2016 by Erasmus+ and SCYP, India for playing a leadership role in encouraging social entrepreneurship
- Nadi Mitra Samman during Environment and River Festival 2015 by Global Greens, India
- UGC - NET & JRF in Environmental Sciences (2001 - 2006)

Membership of Professional Bodies

International Association of Hydrological Sciences (IAHS), UK

International Society of River Science, USA

Urban Economics Association, USA

Indian Water Resources Society (IWRS), Roorkee

Indian Association of Hydrologists

Fellow, Society for Earth Scientists, India

Seminar/Conference/Symposia / Workshops Organised

Wetlands Restoration Drive & World Wetlands Day, 2nd February, 2021, DES, BBAU

Convener – Elocution Competition – Ecotourism promotes conservation of natural resources, 29th January 2021, Ek Bharat Shrestha Bharat, BBAU

World Environment Day, 5th June 2020, Organized an online poster completion in the Department on the theme – ‘*Time for Nature and Biodiversity*’, DES, BBAU

International Workshop on Technology-led Innovation & Sustainability, February 26, 2020, DST-CPR, BBAU

Workshop and Awareness Campaign on World Wetlands Day 2020, 2nd February, 2020, DES, BBAU

Co-organizing Secretary, Training Workshop cum FDP during 2 -6th March 2020

Convener – International Workshop on Technology-led Innovation & Sustainability – 26th February, 2020

Coordinator of the Workshop on “Reducing Water Footprints” during Swachhta Pakhwada, 13th Sept. 2019

STI Policy System and Governance in India, Building National STI Policy System and Governance for Effective R&D Ecosystem, March 5, 2019, DST, Govt. of India, BBAU Lucknow

Workshop on Environmental Hazards of Electronic Waste, Ministry of Electronics and Information Technology, March 13, 2019, CPCB, MoEF & DST-CPR, Lucknow, BBAU

Convener, National Science Day, 28th February, 2019

Socio-environmental Dimensions of Rejuvenating River Gomti, Organized by Lokbharti and DES, BBAU, April 23, 2018

Coordinator – MANTHAN 2017– Yeh India Ka Time Hai (Sankalp se Siddhi)

Countries Visited

USA, UK, France, Germany, Hungary, Russia, Greece, Brazil, Sweden, Switzerland, Kuwait, Nepal, Luxemburg, Belgium, Italy

Invited Lectures/Talks/Chair/Co-Chair in Seminar/Conference/Symposia/Workshops

2020 – 2021

Gave a special talk on Climate Change during the International Environmental Olympiad (IEO-2021) on January 20, 2021 at CMS, Lucknow

Sustainable Groundwater Management in Uttar Pradesh, National Scientific Symposium on 'Drinking Water: Problem and Prevention', January 18, 2021, CSIR-IITR, Lucknow

"Protecting the riparian ecology and rights of the river", World Rivers Week, 21st to 27th September 2020, Oxfam India in Collaboration with International River Basin Forum and India River Water Users Association

"Blue and Green in Urban Planning - Environmental Perspectives", Faculty Development Program on "Emerging Trends in Architecture", June 26, 2020, Faculty of Architecture and Planning, AKTU, Lucknow

2019 – 2020

"Indian Demography – Social Inclusion and Role of Technology", 3rd National Seminar on 'Indian Demography – Challenges' 27-28th February 2020, Organised by Indian Railways Institute of Transport Management (IRITM), Lucknow

"Ganga Our Lifeline: Conservation, Challenges and Opportunities" organized by NSS, Geography Department and Eco Restoration Club, 27th January, 2020, Awadh Girls Degree College, University of Lucknow

"Rivers as Fluvial Ecosystem – Challenges in the Anthropocene", One day workshop on "Flood Plain Zoning" on 17th January, 2020 organized by Central Water Commission, Lucknow

Sustainability Exchange Programme for Western Sydney University, Australia, 18 – 19 November 2019, University of Lucknow and Centre for Environmental Education (CEE), India

Invited lectures on Eco-Hydrology and River Basin Management, Training Course on Environmental Geology, 22 – 26 October 2019, Regional Training Division, Geological Survey of India (Northern Region), Lucknow

South Asia Regional Summit on 'Transboundary Water Bonding Organized by Waterkeeper Alliance and Waterkeepers Nepal, 20-22 September, 2019 (**Kathmandu**, Nepal)

Invited Speaker, 'Consequences of environmental changes and imbalances', September 16th, 2019, Era University, Lucknow

Invited Speaker, 'Sensitization Workshop on Harmful Impacts of Single-use Plastics' September 11th, 2019, English and Foreign Languages University, Lucknow Campus

Science, Technology and Innovation Policy for Turbulent Times – Science Policy Research Unit (SPRU), University of Sussex, UK, 17 – 21 June, 2019 (**Sussex, UK**)

2018 – 2019

Invited speaker, Environmental Hazards of Electronic Waste and their Management, Workshop on Environmental Hazards of Electronic Waste, March 13, 2019, Lucknow, Ministry of Electronics and Information Technology, CPCB, MoEF & DST-CPR, BBAU

STI Policy System and Governance in India, Building National STI Policy System and Governance for Effective R&D Ecosystem, March 5, 2019, BBAU Lucknow, DST, Govt. of India

Invited speaker, Groundwater Management in Uttar Pradesh – Rising Steps towards Community Participation, 29th January, 2019 organised by Central Ground Water Board, Northern Region, Lucknow

Regional Evaluation cum Training Workshop (Gangetic Region), Ministry of Environment, Forest & Climate Change (MoEFCC) organized by ENVIS-Resource Centre, CSIR-NBRI, Lucknow on December 6 – 7, 2018

Technology and Innovation – American Academy of Advancement of Sciences (AAAS) Leadership Seminar, Washington DC, 5 – 9 November 2018, (**Washington DC, USA**)

Pollution Monitoring: Water Pollution and Role of Remote Sensing and GIS, December 13th and 14th 2018, CSIR-IITR, Lucknow, Central Pollution Control Board, Lucknow and organized by CSIR- Indian Institute of Toxicological Research, Lucknow

Invited speaker, India – Asean Inno Tech Summit – Accelerating towards Innovative Development, 29 – 30 November 2018, The Lalit Hotel, Delhi

Invited speaker, State of Groundwater in India (with specific reference to UP), Challenges, Government Policies and Programmes for Water, Sustainability Exchange Programme in association with **Western Sydney University (WSU), Australia** and University of Lucknow (LU), Centre for Environment Education (CEE), India, November 27th, 2018 and December 5, 2018

Invited speaker, Riverfront Development Projects and Demise of Rivers in Ganga Plain, Can India Rejuvenate Ganga? India River Week IRW 2018, November 24-26, 2018 WWF India, New Delhi.

Invited speaker, T2 Lab Workshop and Exhibition, Urban Water System in Gurgaon – Pathways to Sustainable Transformation, September 29 – 30, 2018 organised by TRCSS, JNU and STEPS

Health of Ramganga and Gomti Rivers: Issues & Way Forward, Central Water Commission, Lucknow, September 28, 2018

Multilayered Stakeholders' Dialogue to Build Support for Sustainable Water Resources Management in Koshi River Basin, organized by Institute of Social and Environmental Transition-Nepal (ISET-Nepal), Gorakhpur Environmental Action Group (GEAG) & The Asia Foundation (TAF) August 6 – 7, 2018 (**Kathmandu, Nepal**)

Environmental Flows Assessment of Gomti River, 20th Annual Waterkeeper Alliance Conference, June 6 – 10, 2018, Hyatt Regency Buffalo, (**New York, USA**)

Socio-environmental Dimensions of Rejuvenating River Gomti, Organized by Lokbharti and DES, BBAU, April 23, 2018.

2017 – 2018

Keynote Speaker, Ecosystem Principles of River Basin Management, National Seminar on Changing Dimensions of Natural Resources and Sustainable Development, Avadh Girls College, Lucknow University, Lucknow, 29th – 30th March, 2018

Invited Speaker, National Conference on Environmental Pollution: Burden and Strategies for Control, Isabella Thoburn College, Lucknow University, 27 – 28th March 2018

Science, Technology and Innovation for Development, GDN's 18th Annual Global Development Conference, Campbell Collaboration, Institute for Studies in Industrial Development and United Nations Industrial Development Organization, UNIDO 22-23 March 2018, Delhi.

Invited Speaker, Management of Stressed Aquifers in Uttar Pradesh, NHP Awareness Raising Programme, CGWB organized by Central Ground Water Board, Northern Region, Lucknow, Hotel Vijay Paradise, Vikas Nagar, Lucknow on 16th March 2018

Integrating River-Culture-Ecosystems through Ecological Flow Restoration, Bodh Gaya Global Dialogues on Sustainable Development, Heritage and Enlightenment, World Heritage Site, Bodh Gaya, March 9-12th March 2018

Invited Speaker, International Conference on Sustainable Initiative in Water Management, Organised by Manv Rachna University and Indian Oil Corporation R&D, March 6, 2018, Faridabad

Fostering Scientific Temper for Welfare of Society and Surroundings, National Science Day Seminar, 27 – 28th February, 2018, organised by Zoological Society of India and BBAU, Lucknow

Forests of the Himalayan Terai of India: Key conservation issues and management strategies, National Conference on Climate Change, Environmental Pollution and Biodiversity Conservation, CSIR NBRI, Lucknow, 24 – 25th February, 2018

Key-note Speaker, Groundwater Management in Uttar Pradesh: Challenges and Strategies, Consultation Workshop on UP Ground Water Bill, 15th February, 2018 organised by WaterAid, Lucknow

High-Resolution Climate Projections and Analysis for India, U.S.-India Partnership for Climate Resilience, Jointly organized by TERI and NOAA, USA on February 9th, 2018, India Habitat Center, New Delhi, India.

Keynote Speaker, River Basin Management in India, National Conference on Ecological Degradation and its Impact on Socio-economic Development, 2nd Feb 2018, Netaji Subhash Chandra Bose Government Girls P.G. College, Aliganj, Lucknow

Keynote Speaker and Session Co-chair, Pre and Post STI Policy Impact: Information Analytics, National Workshop on “Science, Technology and Innovation Policy: Optimizing Communication & Information Research, CSIR-NISCAIR-DST, NASC Complex, Pusa, 23-25th January 2018, New Delhi

Pani Satsang (“water discourse”), December 18 – 19, 2017, West Rapti Civil Society interaction across the Nepal-India boundary, Nepal Water Conservation Foundation (**Kathmandu, Nepal**)

Workshop & Training on Water and Urban Initiative, organized by Department of Geology, University of Lucknow, Sponsored by United Nations University, Tokyo, Japan, December 11 – 17, 2017

Ecosystem Management and Restoration of Indian Rivers of Ganga Basin, 6 – 19th June 2017, 2017 Annual Conference, Waterkeeper Alliance, USA (**Utah, USA**)

Innovation for the Base of the Pyramid, Inclusive Manufacturing Forum 2017, National Institute of Advanced Studies (NIAS), 6 – 8 April 2017

BRICS – Science & Technology Innovation and Entrepreneurship partnership (STIEP) initiative meeting at NIAS on 09 April 2017 organised by BRICS – STIEP, National Institute of Advanced Studies (NIAS) & DST

2016 – 2017

Invited Speaker, 7th National Science Film Festival and Competition, Organized by Vigyan Prasar and National Council of Science Museums, 14 – 18th February, 2017

Invited Speaker, Science and Technology for National Development, 104th Indian Science Congress, 3 – 7 January, 2017, Sri Venkateswara University, Tirupari

19th International River Symposium, 12 – 14 September 2016, New Delhi, India organized by International River Foundation and The World Bank

2015 – 2016

Invited Speaker, Science and Technology for Indigenous Development in India, 103rd Indian Science Congress, 3 – 7 January, 2016, University of Mysore

Invited Speaker, The Emergence, Evolution and Application of Environmental-flows Assessment in Sustainable River Basin Management, National Seminar on 'Healthy Rivers-Ecosystem Benefits and Prosperity, IWRS, Lucknow, India

Invited Speaker, Rainwater Harvesting in Green Building: concept in creating smart cities –current status and future agenda, Conference on Green Buildings & Building Rating System, 16 July 2015, PHD Chamber of Commerce & Industry, Lucknow, India

Additional Information (If Any)

- Member, Academic Council, BBAU (2014 – 2017)
- Member, Core Green Group, BBAU (2020--)
- Environment Management Representative, BBAU (2020--)
- Nodal Person – Disaster Management, SDMA, BBAU
- Member – Drafting Committee, Science Technology and Innovation Policy (STIP) Framework, Ministry of Science and Technology, Govt. of India
- Expert Member – Drafting Committee, State Water Policy 2020, Govt. of Uttar Pradesh
- Member, State Science and Technology Programme (SSTP), Ministry of Science and Technology, Government of India (2014 – 2017)
- Member, Selection Committee, Fulbright-Nehru Postdoctoral Fellowship
- Member, NGT-Expert Committee to probe Illegal Sand Mining in Yamuna River, Prayagraj, Uttar Pradesh
- Member, Expert Committee for Swacchata Ranking of Higher Education Institution (HEI), MHRD, New Delhi
- Member, Selection Committee, STI Postdoctoral Fellowship, Department of Science and Technology, Govt. of India