

Professor Manju Mohan

1. **Name, designation and address:**

Manju Mohan, FNASc.
 Professor (HAG) and Former Head,
 Centre for Atmospheric Sciences, Room no. 318, Block VI,
 Indian Institute of Technology, Delhi; Hauz Khas, New Delhi-110016

2. **Email Id 1:** mmanju@cas.iitd.ac.in

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4. **Institution:** Indian Institute of Technology, Delhi

5. **Date of Birth:** 30th June 1959

6. **Gender (M/F/T):** Female

7. **Category (Gen/SC/ST/OBC):** Gen

8. **Specialization (Area of interest, up to 5):**

- Impacts of Urbanization on Weather, Climate and Air pollution
- Atmospheric Boundary Layer and Diffusion Measurements
- Air Quality Modeling
- Heat Island Measurements, Modeling and Mitigation studies
- Understanding fog life cycle from measurements and modelling
- Environmental Impact Assessment (EIA) and Environmental Risk Assessment (ERA)

9. **Academic Qualifications (Undergraduate Onwards)**

S. No	Degree	Year	Branch / Discipline	University / Institution	Division	Remarks
1.	B.Sc.	1978	Science (General)	Rajasthan University	First	1. NSTS Scholar 2. Summer training at Punjab univ., Chandigarh (1977) and IIT Bombay (1978)
2.	M.Sc.	1980	Science (Phy.Chem.)	Rajasthan University Jaipur	First	1. Specialisation in Physical Chemistry 2. NSTS Scholar 3. Summer training at IISc. Bangalore
3.	Ph.D.	1986	Atmospheric Sciences	Centre for Atmospheric Sciences, Indian Institute of Technology Delhi	NA	Course work (i) General Meteorology, (ii) Dynamic Meteorology, (iii) Numerical Weather Prediction and (iv) Air Pollution With CGPA of 9/10
4.	Post-Doc	1987 (March-June)	Atmospheric Sciences	ATDD, NOAA Oak Ridge USA	NA	-
5.	Post-Doc	1988-89 (Nov.-Feb)	Atmospheric Sciences	Royal Netherlands Meteorological Institute, Netherlands	NA	-

10. **Work experience (in chronological order – Last 5):**

Sl. No.	Designation	Name of the Institute/Organization	From Month-year	To Month-year
1A.	Professor (HAG)	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	1 July, 2017	To date
1B.	Professor	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	Jan. 5, 2005	30 June, 2017
2.	Associate Professor	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	5 April, 2000	4 Jan., 2005
3.	Principal Scientific Officer	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	8 May, 1995	4 April, 2000
4A.	Senior Scientific Officer I	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	9 March, 1990	7 May. 1995
4B	Senior Scientific Officer II	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	29 Sept., 1987	8 March, 1990
5.	Senior Research Assistant	Centre for Atmospheric Sciences, Indian Institute of Technology, Delhi	27 Aug., 1984	28 Sept.,1987

11. **Professional Recognition/ Award/ Prize/ Certificate/Fellowship received**

Honours And Awards

- a) IIT Delhi Alumni Faculty – 2023 Award in recognition of outstanding contributions in the field of research and higher education as a Fellow of the National Academy of Sciences
- b) Fellow, National Academy of Sciences, India; 2022
- c) Best oral presentation award in the National Symposium TROPMET-2023 on "Changing Dynamics of Arid Region and Impact on Weather and Climate over Indian Subcontinent".organised by India Meteorological Society (Anie K. Lal, Ravi K. Kunchala, Manju Mohan and Sachin G. Ghude; Presenter: Anie K. Lal).
- d) International Council on Urban Climate/American Meteorological Society student presentationI award in the ICUC-11 International conference on Urban Climate held at UNSW, Sydney held during August 28-Sept-1, 2023 (Anie K. Lal, Manju Mohan,Ravi K. Kunchala and Chiranjit)
- e) Fellow, National Environmental Science Academy, 2019
- f) Best Poster award (Second Prize shared on two separate papers (i) Vivek K. Singh, Manju Mohan and (ii) Ankur P. Sati, Manju Mohan;), IITD-ANCST International Workshop on Modeling Atmospheric - Oceanic Processes for Weather and Climate Extremes (MAPEX 2019), IIT Delhi, 2019
- g) Japan Prize (Ankur P Sati and Manju Mohan), International Conference on Urban Climatology, ICUC10 conference, New York, 2018
- h) Japan Prize (Shweta Bhati and Manju Mohan), International Conference on Urban Climatology, ICUC9 conference, Toulouse, France, 2015
- i) Fellow, Institute of Environmental Engineers (India), 1998
- j) Nawab Zain Yar Jung Bahadur Memorial Medal for the best paper in Environmental Sciences (with B.R. Gurjar), Institution of Engineers (India), 1995-96
- k) Best Poster award in the National Symposium on Emergency Preparedness organised at TIFR, Bombay (with T.S. Panwar), Indian Nuclear Society, 1993
- l) National Science Talent Search Scholarship (NSTS), NCERT, 1976-1984

12. (A). Membership in Salient Committees:

- DST FIST (Fund for Improvement of S&T Infrastructure in Universities & other Higher Educational Institutions) Expert Committee in Earth & Atmospheric Sciences Area (2024-).
- SERB Expert Committee (EC): Co-opted Member for the National Post-Doctoral Fellowship (NPDF) & Startup Research Grant (SRG) under the Earth and Atmospheric Sciences (EAS) Scheme (2021- contd.)
- Member, Technical Advisory Committee, Physics and Earth Sciences Division, Indian Statistical Institute (2020- contd.)
- Member, Indian National Committee on Climate Change (INCCC), Ministry of Water Resources, GOI (2015- contd.)
- Member, Project Management Committee (PMC), ISRO Geosphere-Biosphere and Atmospheric Science Programme (2018-2021)
- Member, DST Subject Expert Committee (SEC) on Earth & Atmospheric Sciences under Women Scientists Scheme-A (2016-2021)
- Member, Special Committee of School of Environmental Sciences, JNU Delhi (2017-2019)
- Member, Review Committee under the Chairmanship of Hon'ble LG of Delhi on Air Pollution in NCT of Delhi and Status of Implementation of Short term and Long-term action plans for mitigation (2017-2018)
- Member, Environmental Appraisal Committee (Industry-I) of Ministry of Environment, Forests & Climate Change (MOEFCC), GOI [2009-2012]
- Member, DST Subject Expert Committee (SEC) on Earth & Atmospheric Sciences under Women Scientists Scheme-A (2005-2012)
- Member, Fulbright-Kalam Climate Fellowships national selection committee, USIEF, Fulbright commission of India; November, 2022
- Member, Selection Committee to the post of Member Secretary, Central Pollution Control Board; Ministry of Environment, Forests and Climate Change (MoEFCC); August, 2023
- Lead member, Asian Network on Climate Science and Technology (ANCST) Special Topic group on Asian Atmospheric –Oceanic Processes during 2018 and also convened a workshop MAPEX-2019 on “Modelling Atmospheric Oceanic Processes for Weather and Climate Extremes” in March 2019 at IIT Delhi in this capacity and proceedings were published [Mohan et al., Current Science 2020].
- Member, Faculty selection committees of IIT's and Central universities in the country and other Committees for selection and promotions or scientific staff in various ministries of Govt [MoES, MoEFCC etc.)
- Member, Selection Committee for Commonwealth Fellowship in Environmental Sciences, 2008
- Member, DPCC committee for finalization of specification for Ambient Air Quality Station, 2006
- CPCB Committee on “Review of Stack Height Regulations for Thermal Power Plants requirements”, 2006 (Sp. Invitee)
- Member, Selection Committee, Member Secretary, Uttaranchal Env. Conservation and Pollution Control Board, Dehradun; 2005
- MOEFCC Committee to examine the need for installation of FGD device in Thermal Power plants under Indian Conditions, 2005 (Sp. invitee)
- Member, International Advisory Panel for a proposed new M.S./Ph.D. degree programme on

Atmospheric Sciences ICIMOD, Nepal; 9-11 June 2014 and Chairperson of a Scientific session in Second Annual Regional Atmospheric Science (SARAS) Workshop; 7-9 June, 2014

- Expert Committee for Selection in the field of Environmental Studies for the award of Commonwealth Fellowship, MHRD 2009
- Selection Committee for Common Wealth Fellowship in Env. Sciences, MHRD; 2008
- Member, Board of Studies, School of Environmental Management, GGS Indraprastha University (2001-2003)
- Member, Editorial Board, Indian Journal of Air Pollution Control (2001-2004)
- Member, Executive council, Indian Meteorological Society (Delhi Chapter) (2001-2003)
- Member, Executive Committee, Indian Association for Air Pollution Control (Delhi Chapter) 1999-2004
- Member, Judging committee appointed by DG, ICAR to award 'Panjabrao Deshmukh Women Agricultural Scientist Award', 2003

12 (B) International Participation in various programmes with full financial support from various organizations:

- Academic community stakeholder on invitation to several international bodies for deliberations and presentations such as:
 - (i) The Malé Declaration on Control and Prevention of Air Pollution and Its Likely Transboundary Effects for South Asia, was formed by UNEP in 1998 and constituted involving an intergovernmental network of Bangladesh, Bhutan, India, Iran, the Republic of Maldives, Nepal, Pakistan and Sri Lanka. Visits were sponsored as an invited speaker/delegate in all its meetings and played an active role.
 - (ii) The Task Force on Hemispheric Transport of Air Pollution (TF HTAP) is an international scientific cooperative effort to improve the understanding of the intercontinental transport of air pollution across the Northern Hemisphere. Visits were sponsored for its meetings in TF-HTAP forum in France, Germany, Italy, Vietnam, Switzerland, USA and made presentations and played active role in deliberations
 - (iii) Asian Network on Climate Science and Technology (ANCST): Lead member, Special Topic group on Asian Atmospheric –Oceanic Processes during 2018 and contributed to this activity through various meetings and programmes organized in Hongkong, Malaysia during 2017-2020 and also organized an International Workshop under this programme (MAPEX-2019).
- Coordinator, CEP Training Programme on “ Urban Pollution: Engineering and Strategic Planning to Combat Air Pollution”, for Andhra Pradesh Pollution Control Board officers; Feb 8-12, 2016 at IIT Delhi sponsored by APPCB, Hyderabad (Co-Coordination: Profs. Sagnik Dey, Dilip Ganguly, S.K. Mishra and Sandeep Sahany)
- Indo-US Workshop on “Combating Air Pollution in North India” from 17-26 May 2016 was sponsored by US Department of State through US Embassy, Delhi. Several US and Indian institutions had applied in partnership against open advt. and after a rigorous selection process, the sponsorship was awarded to RTI International, USA –IITD partnership with Prof. Mohan as the India Lead (Co-organisers: Profs. Sagnik Dey, S.K. Mishra and Dilip Ganguly).
- British Council PMI2 connect academic partnership program, 2011: Awarded the Academic partnership programme between UK (Newcastle University)-US (Pennsylvania State University)

and India (IIT Delhi). Contributed in Workshops/meetings etc. in each of these UK and US institutions.

- Organising Secretary: Indo-US workshop on “Environmental Risk Analysis: Safety, Planning and Management”, Jan 2-6, 1995; IIT Delhi (Sponsored by DoE, NOAA and AWMA, USA; British Council, MoEFCC, CPCB, CSIR, AERB, IOCL, BPCL, SFFI Delhi, Essar Service etc). which had 150 participants including those from USA, UK, Australia and Japan.

13. Media

- Podcast (<https://youtu.be/L5eR0efMjOs?si=HPCaD-WtllRddzdm>) Suno Bhai Saadhu Podcast Episode 2 on Air Pollution and Climate issues
- TEDx Talk (<https://youtu.be/U7MFX-iKLR8>) on Air Pollution and Climate Change: Issues and Challenges by Manju Mohan; August,2019 at AIIMS NewDelhi.
- The research undertaken by Prof. Mohan has been socially relevant and is hence covered widely by the national dailies (Times of India, Hindustan Times, Indian Express etc), important magazines (like India Today, Down To Earth, Science Reporter etc).
- Doordarshan Telecast: Eye on Air Health (E) – Interview (Telecast on 25-1-2020) (<https://www.indiascience.in/videos/eye-on-air-health-e-telecast-on-25-slash-01-slash-2020>)
- An article on “Air Pollution in India: Status and Challenges” ,Department of Science & Technology Communications Cell, Vigyan Prasar, India Science Technology and Innovation portal (ISTI) (<http://www.indiascienceandtechnology.gov.in>).

14. Publications:

14 A: In Journals:

S. No.	Publication	Citations (Google Scholar)	IF@
1.	#Chalakkal, J.B. and Manju Mohan., “An assessment of Indian Summer Monsoon (ISM) characteristics observed in continuous Radiosonding from New Delhi, National Capital Region (NCR-Delhi)”, Atmospheric Research, Volume 304, July 2024, 107414. https://doi.org/10.1016/j.atmosres.2024.107414	0	5.369
2.	#Chalakkal, J. B., and Mohan, M. (2023). Impact of AWiFS derived land use/land cover over the intensely urbanised domain of National Capital Region (NCR)-Delhi in simulating monsoon weather. Urban Climate, 52, 101686. https://doi.org/10.1016/j.uclim.2023.101686	0	6.4
3.	#Vivek Kumar Singh, Manju Mohan, Shweta Bhati, “ Industrial heat island mitigation in Angul-Talcher region of India: Evaluation using modified WRF-Single Urban Canopy Model”, Science of the Total Environment, Volume 858, Part 3, 1 February 2023, 1 159949. https://doi.org/10.1016/j.scitotenv.2022.159949	5	10.75

4.	T. J. Anurose, A. Jayakumar, Kshama Gupta, Saji Mohandas, Margaret A. Hendry, Daniel K. E. Smith, Timmy Francis, Shweta Bhati, Avinash N.Parde, Manju Mohan, A.K. Mitra, Prasun Kumar Gupta, Prakash Chauhan, R Jenamani, Sachin Ghude: Implementation of the urban parameterization scheme to the Delhi model with an improved urban morphology, Quarterly Journal of Royal Meteorological Society, Oct., 2022; https://doi.org/10.1002/qj.4382	3	3.74
5.	#Jerin Benny Chalakkal, and Manju Mohan . "Is the Monsoon climatology observed over the National Capital Region, Delhi indicative of an Urban-Monsoon linkage on rainfall modification?." Urban Climate, 2022, Volume 46, Pages 101289. https://doi.org/10.1016/j.uclim.2022.101289	3	6.4
6.	#Vivek Kumar Singh, Manju Mohan , and Shweta Bhati. "Evaluation of different parameterization schemes in the WRF model for assessment of meteorological conditions over an industrial region in South-East India." Theoretical and Applied Climatology 150, no. 3-4, 2022, Pages 1045-1066. DOI https://doi.org/10.1007/s00704-022-04196-0	1	3.179
7.	#Vivek Kumar Singh, Shweta Bhati, Manju Mohan , Nihar Ranjan Sahoo, and Simanchala Dash, "Attribution to heat island from urban canopies and anthropogenic heat emissions with special reference to Industrial sector: A case study of Angul-Talcher region in India", Atmospheric Research, 2022, Volume 277, Pages 106320, https://doi.org/10.1016/j.atmosres.2022.106320	0	5.369
8.	#Medhavi Gupta, Manju Mohan , and Shweta Bhati, "Assessment of Air Pollution Mitigation Measures on Secondary Pollutants PM ₁₀ and ozone using Chemical Transport Modelling over Megacity Delhi, India", <i>Urban Science</i> , 2022, Volume 6 (2), 27 Doi: https://doi.org/10.3390/urbansci6020027		---
9.	Manju Mohan , and Rahul Chaurasia, "Estimation of background concentration of Ambient Pollutants in Delhi NCT using meteorological filtering and statistical techniques", <i>Atmospheric Pollution Research</i> , Volume 13, issue 7, July 2022; pages 1-15, 101476 DOI: https://doi.org/10.1016/j.apr.2022.101476	0	4.352
10.	#Medhavi Gupta and Manju Mohan , "Assessment of Aerosol Mechanisms and Aerosol Meteorology Feedback over an Urban Airshed in India Using a Chemical Transport Model", <i>Atmosphere</i> , 2021, Volume 12(11), Page 1417 https://doi.org/10.3390/atmos12111417	0	2.686
11.	Anshika, Ravi Kumar Kunchala, RajuAttada, Ramesh K.Vellore, Vijay K.Soni, Manju Mohan and Nagaraju Chilukoti, "On the understanding of surface ozone variability, its precursors and their associations with atmospheric conditions over the Delhi region", <i>Atmospheric Research</i> , 2021, Volume 258, Page 105653 https://doi.org/10.1016/j.atmosres.2021.105653	4	5.369
12.	#Ankur Prabhat Sati and Manju Mohan , "Impact of urban sprawls on thunderstorm episodes: Assessment using WRF model over central-national capital region of India", <i>Urban Climate</i> , 2021, Volume 37, Page 100869 https://doi.org/10.1016/j.uclim.2021.100869	1	5.731

13.	#Preeti Gunwani, Ankur Prabhat Sati, Manju Mohan and Medhavi Gupta, "Assessment of physical parameterization schemes in WRF over national capital region of India", <i>Meteorology and Atmospheric Physics</i> , 2020, doi: https://doi.org/10.1007/s00703-020-00757-y	2	2.065
14.	#Ankur Prabhat Sati and Manju Mohan , "Impact of increase in urban sprawls representing five decades on summer-time air quality based on WRF-Chem model simulations over central- National Capital Region, India", <i>Atmospheric Pollution Research</i> , 2021, Volume 12, Issue 2, Pages 404-416 https://doi.org/10.1016/j.apr.2020.12.002	2	4.352
15.	Manju Mohan , S Sukumaran, V Pant, RK Kunchala and J Hunt, "Modelling Atmospheric–Oceanic Processes For Weather And Climate Extremes", <i>Current Science</i> , 2020, Volume 120 (2), Pages 257-259	0	1.102
16.	Manju Mohan , Ankur Prabhat Sati & Shweta Bhati, "Urban Sprawl during Five Decadal Period over National Capital Region of India: Impact on Urban Heat Island and Thermal Comfort", <i>Urban Climate</i> , 2020, Volume 33, Page 100647 https://doi.org/10.1016/j.uclim.2020.100647	17	5.731
17.	Manju Mohan , Vivek Kumar Singh, Shweta Bhati, Neelesh Lodhi, Ankur Prabhat Sati, Nihar Ranjan Sahoo, Simanchala Dash, P. C. Mishra & Sagnik Dey, "Industrial heat island: a case study of Angul-Talcher region in India", <i>Theoretical and Applied Climatology</i> , 2020, https://doi.org/10.1007/s00704-020-03181-9	24	3.179
18.	#Shweta Bhati and Manju Mohan , "WRF-urban canopy model evaluation for the assessment of heat island and thermal comfort over an urban airshed in India under varying land use/land cover conditions", <i>Geoscience Letters</i> , 2018, Volume 5, Issue 1, Pages – 27 https://doi.org/10.1186/s40562-018-0126-7	22	3.543
19.	#Ankur Sati and Manju Mohan , "The impact of urbanization during half a century on surface meteorology based on WRF model simulations over National Capital Region, India", <i>Theoretical and Applied Climatology</i> , 2018, Volume 134, Pages 309-323, https://doi.org/10.1007/s00704-017-2275-6	30	3.179
20.	Manju Mohan and Medhavi Gupta, "Sensitivity of PBL parameterizations on PM 10 and ozone simulation using chemical transport model WRF-Chem over a sub-tropical urban airshed in India", <i>Atmospheric Environment</i> , Volume 185, 2018, Pages 53-63 https://doi.org/10.1016/j.atmosenv.2018.04.054	29	4.798
21.	#Anurag Kandya and Manju Mohan , "Mitigating the Urban Heat Island effect through building envelope modifications", <i>Energy and Buildings</i> , Volume 164, Feb 2018, Pages 266-277. https://doi.org/10.1016/j.enbuild.2018.01.014	36	5.879
22.	#Preeti Gunwani and Manju Mohan , "Sensitivity of WRF model estimates to various PBL parameterizations in different climatic zones over India", <i>Atmospheric Research</i> , 2017, Volume 194, Pages 43-65 https://doi.org/10.1016/j.atmosres.2017.04.026	71	5.369

23.	#Shweta Bhati and Manju Mohan , “WRF model evaluation for the urban heat island assessment under varying land use/land cover and reference site conditions”, <i>Theoretical and Applied Climatology</i> , 2016, Volume 126, Pages 385-400 https://doi.org/10.1007/s00704-015-1589-5	58	3.179
24.	Manju Mohan and Ankur Prabhat Sati, “WRF Model Performance Analysis for a Suite of Simulation Design”, <i>Atmospheric Research</i> , 2016, Volume 169, Pages 280–291. https://doi.org/10.1016/j.atmosres.2015.10.013	38	5.369
25.	#Medhavi Gupta and Manju Mohan , “Validation of WRF/Chem model and sensitivity of chemical mechanisms to ozone simulation over megacity Delhi”, <i>Atmospheric Environment</i> , 2015, Volume 122, Pages 220-229. https://doi.org/10.1016/j.atmosenv.2015.09.039	33	4.798
26.	#Rizwan Ahmed, Sagnik Dey, and Manju Mohan , “A Study to Improve Night Time Fog Detection in the Indo-Gangetic Basin Using Satellite Data and to Investigate the Connection to Aerosols”, <i>Meteorological Applications</i> , 2015, Volume 22, Pages 689-693. http://dx.doi.org/10.1002/met.1468	14	1.685
27.	Manju Mohan and Anurag Kandya, “Impact of Urbanization and Land-use / Land-cover change on Diurnal Temperature Range: A case study of Tropical Urban Airshed of India using remote sensing data”, <i>Science of the Total Environment</i> , 2015, Volume 506, Pages 453–465. http://dx.doi.org/10.1016/j.scitotenv.2014.11.006	173	10.75
28.	#Ankur Prabhat Sati and Manju Mohan , “Analysis of Air Pollution During a Severe Smog Episode of November 2012 and the Diwali Festival over Delhi, India”, <i>International Journal of Remote Sensing</i> , 2014, Volume 35, Pages 6940-6954. https://doi.org/10.1080/01431161.2014.960618	35	3.151
29.	Manju Mohan and Swagata Payra, “Aerosol Number Concentrations and Visibility during Dense Fog over a Subtropical Urban Site”, <i>Journal of Nanomaterials</i> , (special issue on Nanomaterials and Environment), 2014, Volume 2014, Article ID 495457, Pages 6. https://doi.org/10.1155/2014/495457	14	2.986
30.	#Swagata Payra and Manju Mohan , “Multirule Based Diagnostic Approach for the Fog Predictions Using WRF Modelling Tool”, <i>Advances in Meteorology</i> , 2014, Article ID 456065, 11 Pages https://doi.org/10.1155/2014/456065	37	1.962
31.	Manju Mohan , Anuj Gupta and Shweta Bhati, “A Modified Approach to Analyze Thermal Comfort Classification”, <i>Atmospheric and Climate Sciences</i> , 2014, Volume 4, Pages 7-19 http://dx.doi.org/10.4236/acs.2014.41002	46	---
32.	#Medhavi Gupta and Manju Mohan , “Assessment of contribution to PM10 concentrations from long range transport of pollutants using WRF/Chem over a subtropical urban airshed”, <i>Atmospheric Pollution Research</i> , 2013, Volume 4, Pages 405-410. https://doi.org/10.5094/APR.2013.046	37	4.352

33.	Manju Mohan , Yukihiro Kikegawa, B. R. Gurjar, Shweta Bhati, and Narendra Reddy Kolli, "Assessment of Urban Heat Island Effect for Different Land Use–Land Cover from Micrometeorological Measurements and Remote Sensing Data for Megacity Delhi", <i>Theoretical and Applied Climatology</i> , 2013, Volume 112, Pages 647-658. http://dx.doi.org/10.1007/s00704-012-0758-z	97	3.179
34.	Sagnik Dey, Larry Di Girolamo, Aaron van Donkelaar, S. N. Tripathi, Tarun Gupta, and Manju Mohan , "Variability of Outdoor Fine Particulate (PM2.5) Concentration in the Indian Subcontinent: A Remote Sensing Approach", <i>Remote Sensing of Environment</i> , 2012, Volume 127, Pages 153-161. https://doi.org/10.1016/j.rse.2012.08.021	210	9.085
35.	Manju Mohan , Y. Kikegawa, B. Gurjar, S. Bhati, A. Kandya and K. Ogawa, "Urban Heat Island Assessment for a Tropical Urban Airshed in India", <i>Atmospheric and Climate Sciences</i> , 2012, Volume 2 No. 2, Pages 127-138 http://dx.doi.org/10.4236/acs.2012.22014	82	---
36.	Yukihiro Kikegawa, Y. Ishizaka, K. Hokari, Manju Mohan , B. R. Gurjar, "Study on the structure of surface air temperature distribution and potential of heat island countermeasures in Delhi under dry climate", <i>Journal of Japan Society of Civil Engineers</i> , Ser. G (Environmental Research), 2012, Volume 67, Pages II 315-326. https://doi.org/10.2208/jscejer.67.ii.315	1	---
37.	Manju Mohan and Shweta Bhati, "Wind flow conditions as an indicator to assimilative capacities of urban airsheds towards atmospheric pollution potential", <i>Journal of Civil & Environmental Engineering</i> , 2012, S1:003 https://doi.org/10.4172/2165-784x.s1-003	9	0.92
38.	Manju Mohan , S. Pathan, K. Narendrareddy, A. Kandya and S. Pandey, "Dynamics of Urbanization and Its Impact on Land- Use/Land-Cover: A Case Study of Megacity Delhi," <i>Journal of Environmental Protection</i> , 2011, Volume 2 No. 9, Pages 1274-1283. https://doi.org/10.4236/jep.2011.29147	218	1.14
39.	Manju Mohan , Shweta Bhati, Archana Sreenivas and Pallavi Marrapu, "Performance Evaluation of AERMOD and ADMS- Urban for Total Suspended Particulate Matter Concentrations in Megacity Delhi", <i>Aerosol and Air Quality Research</i> , 2011, Volume 11, Pages 883–894. http://dx.doi.org/10.4209/aaqr.2011.05.0065	67	3.063
40.	Manju Mohan , A. Kandya and A. Battiprolu, "Urban Heat Island Effect over National Capital Region of India: A Study using the Temperature Trends," <i>Journal of Environmental Protection</i> , 2011, Volume 2 No. 4, Pages 465-472. https://doi.org/10.4236/jep.2011.24054	65	1.14
41.	Manju Mohan , and Shweta Bhati, "Analysis of WRF Model Performance over Subtropical Region of Delhi, India", <i>Advances in Meteorology</i> , 2011, Article ID 621235, 13 Pages https://doi.org/10.1155/2011/621235	92	1.962

42.	Manju Mohan , Anurag Kandya and M Yadav, "An evaluation and comparison of the various statistical and deterministic techniques for forecasting the concentration of criteria air pollutants", <i>International Journal of Environment and Pollution</i> , 2011 Volume 44, Issue 1-4, Pages 96-105 http://dx.doi.org/10.1504/IJEP.2011.038407	2	0.54
43.	Manju Mohan , Shweta Bhati and Archana Rao, "Application of Air Dispersion Modelling for Exposure Assessment from Particulate Matter Pollution in Megacity Delhi", <i>Asia Pacific Journal of Chemical Engineering</i> , 2011, Volume 6, Pages 85-94 https://doi.org/10.1002/apj.468	28	1.447
44.	Suresh Tiwari, Swagata Payra, Manju Mohan , Sunita Verma, and D. S. Bisht, "Visibility Degradation During Foggy Period Due to Anthropogenic Urban Aerosol at Delhi, India", <i>Atmospheric Pollution Research</i> , 2011, Volume 2, Pages 116-20. https://doi.org/10.5094/apr.2011.014	58	4.352
45.	Manju Mohan and B.R. Gurjar, "Sensitivity Analysis of Probits with respect to Quantitative Risk Assessment of Airborne Toxic Chemicals using IITD-QRA Model", <i>International Journal of Environment and Waste Management</i> , 2010. Volume 6, Nos 3-4 pp 345-355 https://doi.org/10.1504/ijewm.2010.035067	0	---
46.	Manju Mohan , Anurag Kandya, and Manish Yadav, "Air Quality Index Estimations From Measurements and Statistical Modelling Techniques Over Delhi", <i>International J. of Environmental Protection (IJEP)</i> , 2011, Volume 44. Numbers 1-2, pp. 96-105(10) https://doi.org/10.1504/ijep.2011.038407	0	---
47.	Manju Mohan , Shweta Bhati and Pallavi Marrapu, "Performance Evaluation of AERMOD and ADMS Urban Models in a Tropical Urban Environment", <i>Indian Journal of Air Pollution Control</i> , 2009, Volume 9, No.1 , pp 47-62. http://dx.doi.org/10.4209/aaqr.2011.05.0065	10	---
48.	Manju Mohan and Swagata Payra, "Influence of Aerosol Spectrum and Air Pollutants on Fog Formation in Urban Environment of Megacity Delhi, India", <i>Environmental Monitoring and Assessment</i> (Springer), 2009, Volume 151, Pages 265-277. https://doi.org/10.1007/s10661-008-0268-8	80	2.513
49.	Manju Mohan and Sumit Sharma, "Air Quality Assessment from Thermal Power Plants in National Capital Region India: A Case Study", <i>Indian Journal of Environmental Protection</i> , 2008, Volume 28, Number 2, pp 116-128	2	0.09 (citescore) 0.125 (SJR)
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89.	Manju Mohan and O. P. Sharma, "The estimation of surface fluxes from heat balance equation for the city of Delhi", <i>Mausam</i> , 1987, vol. 38, No. 1, 67-72. https://doi.org/10.54302/mausam.v38i1.2651	7	0.515
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91.	Manju Mohan , "Diurnal variation of mean mixing depths in different months at Delhi", 1985, <i>Mausam</i> , vol. 36, 71-74. https://doi.org/10.54302/mausam.v36i1.1598	12	0.515

@ IF: Journal Impact Factor, Source: JCR 2022 or later as per availability. Citations as on 28.12.2023

First author papers of research student (Ph.D./ M.Tech.)

14 B: Invited Talks/Lectures Delivered in workshops etc

1. Manju Mohan, 'Urban Heat Island: Assessment, Impacts, and Mitigation', Invited talk at RMIT University, Melbourne, Australia; Sept. 7, 2023.
2. Manju Mohan, 'Ozone: Status, Impacts and Transport Modelling'; Webinar on Ozone Day organized by Amity Institute of Environmental Toxicology, Safety and Management, September 16, 2021
3. Manju Mohan, Air Pollution in Indian Cities: Issues and Challenges; IITDAA and MPCB's Maha Cities Conclave, 2021, March 12, 2021
4. Manju Mohan, Urban Green Spaces and Air Quality; IITDA and MPCB's Maha Parivesh series of Workshops; 25 Feb. 2021.
5. Manju Mohan: 'NAAQS: Suggested Measure for the Way Forward'. The Brainstorming Workshop on Review of National Ambient Air Quality Standards (2009) organised by Indian Association of Air Pollution Control (Delhi Chapter) in partnership with CSIR-NEERI; on 17 October 2020.
6. Manju Mohan: Interdisciplinary National Webinar on Impact of Covid-19 on Environment, Economy and Ethical Implement' organized by St. Andrew's College, Gorakhpur on 5 June, 2020; Key speaker
7. Manju Mohan: Workshop on Climate Change Perspectives in Manipur Indian Himalayan Region with special emphasis on DST-SPLICE CCP Initiatives; September, 2019 at Manipur University as Key speaker
8. Manju Mohan: Ozone: Status, Issues and Solutions. National Workshop on Impact on Global Warming: Ozone Layer, September 16, 2018 at Shiv Nadar University, Greater Noida (key speaker)
9. Manju Mohan: Forecasting Meteorology and Air Quality in Urban Areas: Status and Challenges. Workshop on Disaster Resilient Cities: Advances in Meteorological Forecasting and Hazard Assessment 28-29 June 2018; ANCST/NUOF Meeting, Le Méridien Kuala Lumpur, Malaysia
10. Manju Mohan: Concept Note On Combating Air Pollution in Urban Airsheds of India. Pollution Control & Emissions Monitoring World Conference - April 18-19 2018 at TAJ MAHAL HOTEL, NEW DELHI

11. Manju Mohan: Careers in Atmospheric Science. Breaking Stereotypes in The Field of Science and Technology for Girl Students Through Motivational Guidance, DST- Vigyan Jyoti Project – 7th June 2018 At IGNOU
12. Manju Mohan: Concept Note on Combating Air Pollution in Megacities of India. National Workshop on Combating Air Pollution; Isabella Thortan College, Lucknow; 22-23 Jan., 2016
13. Manju Mohan: Impacts of land-use land cover and urban canopies on weather parameters from WRF modelling. IISER Mohali- iLEAPS International Workshop on “Biosphere-Atmosphere Interactions and Impacts on Climate and Air Quality”, 21st March 2016, Indian Institute of Science Education and Research Mohali (IISER), SAS Nagar, Mohali, India.
14. Manju Mohan: Concept Note on Combating Air Pollution in Urban Airsheds of India. Joint Indo-US Workshop on “Combating Air Pollution in North India” at Delhi, Chandigarh, Jaipur and Lucknow from 17-26 May, 2016 at Chandigarh sponsored by US Department of state, US Embassy, Delhi
15. Manju Mohan: Air Quality Management System for Prediction of Environmental Impacts. Training Programme on “Urban Pollution: Engineering and Strategic Planning to Combat Air Pollution”, for APPCB Officers; February 8-12, 2016 at IIT Delhi.
16. Manju Mohan: Urbanisation and its Impact on Climate, International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015) at MNNIT, Allahabad October 9-11, 2015
17. Manju Mohan, Micrometeorological and Microphysical Aspects of Fog: Challenges in the Observations and Numerical Modelling; IMD Fog Brainstorming Meeting on “Understanding Processes of Fog Formation and its use in Forecasting”; 14-15 December, 2015 at MOES, Prithvi Bhavan; Delhi
18. Manju Mohan, Fog Prediction Modelling Scenario and Data Gaps; Brainstorming Meeting on “Observational Campaign for Understanding and Prediction of Winter Fog”, IITM, Pune on 13 August, 2015
19. Manju Mohan, Atmospheric Pollutants and Climate Change; Brainstorming Session on Climate Change on May 19-20, 2015 organised by National Academy of Sciences, India at IIM, Jammu
20. Manju Mohan, Scope and Prospective for Development of a Dynamic Fog Model, 7th Annual Fog Workshop of winter of 2014 – 2015; 15 December, 2014 at Udan Bhawan, Delhi
21. Manju Mohan, “Green Economy: Development and environmental impact on urban climate” World Environment Day (5.6.2014) at Shaurya, CRPF Officers’ Institute, Vasant Kunj; New Delhi 5.6.2014
22. Manju Mohan, “Development and its Environmental Impact on Urban Climate” at Knowledge Seekers Forum at Gurgaon (KSFG); Senior citizen’s forum started by Prof. Kainth (Retd.) of IIT Kanpur. Venue: Maurya School, Palam Vihar; Delhi 5.7.2014.
23. HTAP Coordinated by USEPA and EU at Sanfrancisco; 5-6 Dec., 2013 and AGU
24. Manju Mohan, Air Pollution and its impact: case studies on urban Indian Scenario; Key speaker at Jamia Milia Islamia University; Delhi 2050 Workshop on “ Mapping our future; Organised by ARCHI Delhi.
25. Manju Mohan, Air Pollution and it’s Impacts: Case Studies on Urban Indian Scenario; Prevention of Air Pollution and its Likely Transboundary Effects for South Asia (RSC6), 28-29 June, 2011; Delhi.
26. Manju Mohan, Application of Air Dispersion Modelling for Exposure Assessment; Short course on “Aerosol Properties, Health Regional Air Quality and Climate” Organised by QIP Division at CED, IIT Delhi, April 01-05, 2011.

27. Manju Mohan, Application of Air Dispersion Modelling for Exposure Assessment: Some Case Studies, Academic Staff College, JNU, Delhi; 16th Refresher Course sponsored by UGC; 21 April, 2011.
28. Manju Mohan, Application of Air Dispersion Modelling for Exposure Assessment From Particulate Matter Pollution in Mega City Delhi; UGC sponsored National Conference on Indoor Air Quality: A New Challenge in India at Isabela-Thoburn College, Lucknow; 23-24 Feb.,2011.
29. Manju Mohan, Atmospheric Emissions and Climate Change; International Conference on "Recent Advances in Environment Protection, Hotel Clarks Shiraz Agra, December 17-19, 2009.
30. Manju Mohan, Atmospheric Emissions and Climate Change, Invited Lecture on CPPRI Foundation Day; at Central Pulp and paper Research Institute (CPPRI), Saharanpur; 11 November, 2009
31. Manju Mohan and Shweta Bhati, Why is Megacity Delhi prone to High Atmospheric Pollution Potential?, 10th Task Force on Measurement and Modelling Meeting : convention on long-range Transboundary air pollution in Paris (France), June 15th – 17th 2009.
32. Manju Mohan, Performance Evaluation of Some Regulatory Models with Comprehensive Emission Inventory over Megacity Delhi; Male Declaration on Control and Prevention of Air Pollution and it's likely Transboundary Effects for South Asia, Fifth Regional Stakeholder cum Regional coordination meeting; August 19-20, 2008; Colombo, Srilanka
33. Manju Mohan, Estimating Aircraft Emissions and it's Relative Impact on Overall Ambient Air Quality Over Delhi; International Workshop on Regional and Intercontinental Transport of Air Pollution, Hoa Binh Hotel, Hanoi, Vietnam, October, 2008.
34. Manju Mohan, Micrometeorological Experiments for Assessment of Urban Heat Island Intensity over Delhi; Fourth Asian Workshop on Urban Heat Island Issues organized by Meisei University, Tokyo, Japan; 25 December, 2008.
35. Manju Mohan, Air Pollution: Some Case Studies; In the Seminar on Environmental Pollution (Air, Water, and Noise) and Climate Change on June 5, 2008 at Delhi Secretariat.
36. Manju Mohan, Emission Inventory and Model Evaluation: Some Case Studies; University of Alabama in Huntsville, June 18, 2008
37. Manju Mohan, Estimation of Environmental Impact due to Sulfur dioxide Emission from Thermal Power Plants in India; Male Declaration on Control and Prevention of Air Pollution and it's likely Transboundary Effects for South Asia, Regional Stakeholder and coordination meeting; October 2-3, 2007; Male.
38. Manju Mohan, Fog Modelling: Status in India and Abroad; in the 3rd SERC School on Atmospheric Obscurity and The Planetary Boundary Layer at Air Force Administrative College, Coimbatore from December 3-22, 2007, pp295-312.
39. Manju Mohan, 'Air Pollution Modelling', in Refresher course on Environmental Sciences at the Academic UGC Staff College, JNU, New Delhi on 13 April, 2007.
40. Manju Mohan, 'Air Quality Modelling and Air Pollution Control due to Thermal Power Plants', in the Environmental Management Programme in Power Station' PMI, NTPC, NOIDA on July 26, 2006.
41. Manju Mohan, 'Gaussian Plume Models for Assessment of Ambient Air Quality', Environmental Science and Engineering Dept., GJU, Hissar on April 3, 2006.
42. Manju Mohan, ' Potential Health Risks due to Toxic Contamination in the Ambient Environment in India', Conference on Health and Environment, organised by Centre for Science and Environment at IHC, Delhi, March 24-25, 2006

43. Manju Mohan, 'Health Risk Assessment and Management for Air Toxics' in All India Seminar on Air Pollution & Health Impacts (AISAPHI) from February 23-24, 2006 organized by The Institution of Engineers (India) Roorkee Centre at IIT Roorkee.
44. Manju Mohan, 'Air Pollution and its Transboundary Effects' in Male Declaration on Control and Prevention of Air Pollution and its likely Trans-boundary Effects for South Asia from October 14-15, 2005, organized by CPCB at Hotel Radison MBD, NOIDA
45. Manju Mohan, 'EIA case Study for a Thermal Power Plant' in QIP summer school on Environmental Pollution and Control from July 4-9, 2005 at IIT Delhi.
46. Manju Mohan, 'An Overview on Environmental Risk Assessment from Toxic Chemical Releases in India and Assessment of Potential Health Risks', key note speaker in the conference on the 'Current issues of plant sciences: health and environmental aspects' at St. John's College, Agra . Oct. 8-9, 2004.
47. Manju Mohan, 'Measurements for Model validation and Air Quality Assessment', in Brainstorming session by Environmental Monitoring and Research Center, IMD, Delhi, July 6-7, 2004.
48. Manju Mohan, 'Long Range Transportation of Pollutants and Acid Deposition Modelling', in the World Bank/CPCB sponsored workshop on Air Quality Meteorology and Modelling from June 9-13, 2003 at IIT Kanpur
49. Manju Mohan, 'Risk Assessment Modelling', in the Fourth DST-SERC School on Numerical Weather Prediction from April 14-May 10, 2003 at IIT Delhi.
50. Manju Mohan, 'Mathematical Models for Airborne Accidental Release of Extremely Hazardous Substances for Industrial Siting and Risk Assessment in Chemical Industries' in the Fourth DST-SERC School on Numerical Weather Prediction from April 14-May 10, 2003 at IIT Delhi.
51. Manju Mohan, 'Air Quality Assessment for Environmental Impact with reference to Fine Dust Pollution', in Canada-India workshop on Environment and Quality of Life organized by Centre for Canadian Studies at University of Delhi from April 1-21, 2003.
52. Manju Mohan, 'Emergency response Modelling for Environmental Risk Assessment', in Canada-India workshop on Environment and Quality of Life organized by Centre for Canadian Studies at University of Delhi from April 1-21, 2003.
53. Manju Mohan, 'Megacity emissions and urban air pollution: the Delhi case' in Atmospheric Chemistry Division, Max-Planck Institute, Mainz (Germany), October 21, 2002.
54. Manju Mohan, ' Dynamics of Dispersal of Air Pollutants', in the UGC sponsored Refresher course in Environmental Science and Engineering at Guru Jambheshwar University, Hisar, Sept. 13, 2002.
55. Manju Mohan, ' Air Pollution Measurements in Thermal Power Stations and Air Dispersion' in Environmental management workshop at Power Management Institute, NTPC, NOIDA from February 26-28, 2002.
56. Manju Mohan, ' Risk Analysis for Oil Spillage in Marine Environment', Two lectures in the IOC sponsored training programme in Coastal Marine Science Modelling and Monitoring of Marine Pollution (MAMCOMP), IIT Delhi, Nov. 15-16, 2000.
57. Manju Mohan, "Environmental Impact Assessment and Dispersion Modelling' in the workshop on Environment Protection Preparedness in Petroleum Industry and Future challenges on March 30-31, 2000 Organized by Oil India Safety Directorate at Vigyan Bhawan, Delhi.

58. Manju Mohan, 'Atmospheric Dispersion Models for Air Quality Assessment and Emergency Response' (2 lectures) in UGC panel workshop on Mathematical Modelling of Environmental Pollution , 17-20 May, 1999 at Bangalore University, Bangalore.
59. Manju Mohan, 'Atmospheric Dispersion Modelling for Air Quality Assessment and Emergency Response' (2 lectures) in 5th Refresher Course in Environmental Sciences, at Administrative Staff College, JNU campus, Delhi; March 26, 1999.
60. Manju Mohan, 'Rains-Asia Model: Suggested Improvements' in 2nd National Workshop on Acid Rain and Emission Reduction in Asia on March 15, 1999 at TERI, New Delhi.
61. Manju Mohan, ' Risk Analysis for Oil Spillage in Marine Environment', Two lectures in the IOC sponsored training programme in Coastal Marine Science Modelling and Monitoring of Marine Pollution (MAMCOMP), IIT Delhi, Nov. 24 & 25, 1998.
62. Manju Mohan, 'Monitoring Techniques and Analysis of Air Pollutants' in Training Programme on "Air Pollution Monitoring control and hazardous waste Management", at National Council for Cement and Building Materials at Faridabad.; August 10, 1998.
63. Manju Mohan, 'Mathematical Modelling for Atmospheric Dispersion of Air Pollutants' in Training Programme on "Air Pollution Monitoring control and hazardous waste Management", at National Council for Cement and Building Materials at Faridabad; August 10, 1998.
64. Manju Mohan, 'Transport, Dispersion and Monitoring aspects of Rains Asia' in the workshop on scoping studies on Aerosols for Asia-Pacific Network, NPL, New Delhi; March 25-27, 1998.
65. Manju Mohan, 'The Atmospheric Module of Rains Asia' in the workshop on Modernising the energy sector in India and China and Environmental concerns, TERI, New Delhi; Dec. 17-18, 1997.
66. Manju Mohan, 'Risk Assessment due to Thermal Power Station' in short term course on EIA of TPP, School of Environmental Sciences, JNU Delhi; May 31, 1997.
67. Manju Mohan, 'Vulnerability Analysis of Airborne Release of Hazardous Chemicals', two lectures in CEP course on explosion Hazard Analysis and Management; Institute of Armament Technology, DRDO, Pune; Feb 21, 1997.
68. Manju Mohan, 'Risk analysis for Oil Spillage in Marine Environment' in IOC sponsored Training Programme on Coastal Marine Sciences Modeling and Monitoring of Marine Pollution (MAMCOMP), Dec. 21, 1996 at IIT Delhi.
69. Manju Mohan, ' Acid Deposition Predictions and Critical Load Evaluations using RAINS- ASIA Model' in June 24, 1996 in the Department of Marine, Earth, and Atmospheric Sciences', North Carolina State University, Raleigh, USA.
70. Manju Mohan, 'Acid rain in India: A Review', a talk presented in June 15, 1996 at the University of Iowa, USA.
71. Manju Mohan, 'Emergency Response Models for Industrial Chemical Accidents' in the training course on Management of chemical Accidents-II for middle level Managers from Industries and government departments, March 20-22, 1996, Disaster Management Institute, Bhopal.
72. Manju Mohan, 'Risk Analysis for Oil Spillage in Marine Environment', Two lectures in the IOC sponsored Training Program in Coastal Marine Sciences Modeling and Monitoring of Marine Pollution (MAMCOMP), IIT Delhi, Nov. 6-24, 1995.

73. Manju Mohan, 'Acid Rain in South Asia,' in the training programme on Energy planning for South Asian Countries organised by Tata Energy Research Institute, April 3-8, 1995.
74. Manju Mohan. 'Risk Assessment due to Thermal Power Plants' at the training programme on Environmental Impact Assessment of Thermal Power Plants, sponsored by MOEF, GOI, held at JNU, New Delhi, March 23,1995.
75. Manju Mohan, 'Risk Analysis for Oil spillage in Marine Environment', Two lectures in the IOC sponsored training programme in Coastal Marine Science Modeling and Monitoring of Marine Pollution (MAMCOMP), IIT Delhi, Nov. 21 - Dec. 8, 1994.
76. Manju Mohan, 'Mathematical Models for Airborne Accidental Release of Extremely Hazardous substances for Industrial Siting and Emergency Preparedness', Workshop on Industrial Safety, Environment & Security (Management Strategy and Statutory Obligation), Organised by HRD Foundation and National Safety Council (U.P. Chapter) from Dec. 15-17, 1993 at Hotel Surya Sofitel, New Delhi.
77. Manju Mohan,, 'Mathematical Models for the assessment of Fire and Explosion Hazard Zone'. in ISTE Summer School on Fire and Explosion Risk Assessment in Industrial Situations, May, 17-22, 1993; ITMMEC, IIT, Delhi.
78. Manju Mohan, 'Risk Assessment due to thermal Power Plants' in short term course on Environmental Impact Assessment of Thermal Power Plants, March 17, 1993 at School of Environmental Sciences, JNU, New Delhi.
79. Manju Mohan, 'Meteorology in Environmental Impact Assessment, Programme for Training Course on Meteorological Aspects of Air Pollution, March 16, 1992, at Central Pollution Control Board, Delhi.
80. Manju Mohan, 'Atmospheric dispersion models in Industries, Accident, Planning and Management' in the National Seminar on Recent Advances in Industrial Engineering and Management, Feb 21-23, 1991; Dayalbagh Educational Institute, Agra.
81. Manju Mohan, 'Effects and estimation of hazards from atmospheric dispersion models' in the orientation course for the International workshop on Risk Assessment, Dec 6-9, 1990. at CLRI, Madras.
82. Manju Mohan, 'Estimation of vulnerable zones due to Accidental Release of Hazardous Materials' in the Inter country Training Course on Risk Assessment / Risk Management, 15-26 Oct, 1990 WHO, New Delhi.
83. Manju Mohm, 'Computer lab demonstration of some operational dispersion models', College on Atmospheric Boundary Layer Physics- Air Pollution Modelling for Environmental Impact Assessment, June 1990 at International Centre of Theoretical Physics, Trieste, Italy.
84. Manju Mohan, 'Mathematical Models for prediction of Air Pollutants in the Atmosphere' in the QIP winter School on Chemical Specialization, Transport and Toxicology of Environmental Pollutants', Dec. 6-19, 1989; Chemistry Department, IIT Delhi.
85. Manju Mohan, 'Meteorological Processes in Dispersal of Air Pollutants' in the QIP Winter School on Chemical Specialization Transport and Toxicology of Environmental Pollutants, Dec. 6-19, 1989; Chemistry Department, IIT Delhi.
86. Manju Mohan, 'Vulnerability Analysis due to Airborne Release of Extremely Hazardous Substances' in All India Workshop on Futurology entitled Towards the 21st Century- Emerging Social Sciences and Technology and Education Perspective (National & Regional) for India (1998-2008, A.D), 25-29, April 1988 at IIT Delhi.

87. Manju Mohan, 'Dispersion Modelling of Dense Toxic Release', in the workshop on Disaster Control and Preparedness in Chemical Industry, on December 23, 1988; at IFFCO (Indian Farmers and Fertilizers Cooperative Organisation), Phulpur unit, Allababad.
88. Manju Mohan, 'Overview on Dense gas Dispersion Models: Their Inter comparison Based on Relative Merits and Demerits' in the workshop on Risk Assessment Techniques and Management, Oct. 26-30, 1987, at IIT Delhi.
89. Manju Mohan, 'A Physical Basis of Dense Gas Dispersion' in the workshop on Risk Assessment Techniques and Management, Oct. 26-30, 1987 at IIT Delhi.
90. Manju Mohan, 'Boundary Layer Studies and Urban Diffusion Modelling', Department of Marine, Earth and Atmospheric Sciences', June, 1987, North Carolina State University, Raleigh.

14 C: Presentations in Conferences/ Workshops/Seminars

1. **Manju Mohan**, Shweta Bhati and Yukihiro Kikegawa, 'Attribution to UHI from urban canopies and anthropogenic heat with application of WRF-UCM Model and Energy Inventory Approach', 11th International Conference on Urban Climate (ICUC11), Sept 2023, UNSW Sydney, Australia
2. Anie K. Lal, **Manju Mohan**, Ravi Kumar Kunchala and Chiranjit Das, 'Investigation of climatological trends and characteristics of fog over the Indo-Gangetic Plain using observations', 11th International Conference on Urban Climate (ICUC11), Sept 2023, UNSW Sydney, Australia
3. Jerin Benny Chalakkal and **Manju Mohan**, "Investigating Urban -Monsoon Linkage on Rainfall Modification over the National Capital Region (NCR) Delhi", 11th International Conference on Urban Climate (ICUC11), Sept 2023, UNSW Sydney, Australia.
4. Jerin Benny Chalakkal and **Manju Mohan**, "Impact of accurate representation of Land Use/Land Cover over the National Capital Region (NCR) Delhi in simulating Monsoon Weather", EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-605. <https://doi.org/10.5194/egusphere-egu23-605>.
5. Jerin Benny Chalakkal and **Manju Mohan**, "Investigating the Monsoonal Convective Environment observed over the National Capital Region (NCR Delhi) within the Northern Gangetic Plains" in AGU Fall Meeting 2023, USA (accepted)
6. **Jerin Benny Chalakkal** and Manju Mohan. "Investigating Urban Signatures to Monsoon Modification over the National Capital Region (NCR), Delhi". In AGU Fall Meeting Abstracts (Vol. 2022, pp. GC42U-0981).
7. Chaurasia, R., & Mohan, M. (2022, December). Quantifying background concentration levels of ambient pollutants using meteorological filtering and statistical techniques for Delhi NCT region. In **AGU Fall Meeting Abstracts** (Vol. 2022, pp. A35J-1581). Chicago, IL, 12-16 December 2022 (Online Mode).
8. Chaurasia, R., & Mohan, M. (2021, December). Estimation of background concentration of Ambient Pollutants in Delhi NCT. In **AGU Fall Meeting Abstracts** (Vol. 2021, pp. A55G-1466). New Orleans, LA, 13-17 December 2021 (Online Mode).
9. Chaurasia, R., & Mohan, M. (2020, May). Gridded Emission Inventory of Criteria Air Pollutants for National Capital Territory, Delhi. In **EGU General Assembly Conference Abstracts** (p. 22571). Vienna, Austria, May 2020 (Online Mode).
10. Ankur Sati and **Manju Mohan** 'WRF Model Simulated Urban Heat Island effect and Thermal Comfort in Context of Increasing Urbanization', IITD-ANCST International Workshop on

Modeling Atmospheric - Oceanic Processes for Weather and Climate Extremes (MAPEX 2019), March 28-29 2019, IIT Delhi

11. Vivek Kumar Singh and **Manju Mohan** 'Sensitivity Analysis of Numerical model for assessment of Industrial Heat Island', IITD-ANCST International Workshop on Modeling Atmospheric - Oceanic Processes for Weather and Climate Extremes (MAPEX 2019), March 28-29 2019, IIT Delhi
12. **Manju Mohan**, Ankur Prabhat Sati and Shweta Bhati 'Impact of five decades of development process on Heat Island intensities over a sub-tropical region in India', Workshop on Status of Climate Science and Technology in Asia, 15-16 November 2018, Kuala Lumpur, Malaysia
13. **Manju Mohan**, 'Forecasting Meteorology and Air Quality in Urban areas : Status and Challenges', Workshop on Disaster Resilience Cities: Advances in Meteorological Forecasting and Hazards Assessment, 28-29 June 2018, organised by ANCST/NUOF, Kuala Lumpur, Malaysia
14. Ankur Sati and **Manju Mohan**, 'Comparison of Model Simulated Meteorology in Context of Increasing Urbanization over National Capital Region, India'. 10th International Conference on Urban Climate/14th Symposium on the Urban Environment, 6-10 August 2018, New York NY.
15. Preeti Gunwani and **Manju Mohan**, 'Sensitivity of WRF model estimates to choice of Land Use Land cover and Reanalysis dataset over India', JpGU Meeting 2018, Chiba, Japan
16. **Manju Mohan**: Impacts of land-use land cover and urban canopies on Meteorology and Air Quality from WRF modelling. Urban Meteorology and Climate Conference, ANCST-CityU Sponsored Conference at City University Hongkong, 25-26 May 2017, Hong Kong
17. Medhavi Gupta and **Manju Mohan**: Assessment of sensitivity of tropospheric ozone production to NO_x and VOCs emissions using WRF/Chem model for Megacity Delhi. JpGU-AGU Joint Meeting 2017, 20-25 May 2017, Chiba, Japan
18. Shweta Bhati and **Manju Mohan**: Estimation of Anthropogenic Heat Emissions in Delhi, India and Their Role in Urban Heat Island Effect. AGU Fall Meeting 2016, 12-16 December 2016, San Francisco, USA
19. **Manju Mohan** and Shweta Bhati: WRF-Urban canopy model evaluation for the heat island assessment under varying land use/land cover conditions. 4th International Conference on Countermeasures to Urban Heat Islands- Countering Urban Heat Island (UHI) and Climate Change through Mitigation and Adaptation 2016, 30 May - 4 June 2016, Stephen Riady Centre, U town, National University of Singapore., International, Published
20. **Manju Mohan**: Concept Note on Combating Air Pollution in Urban Airsheds of India. National Conference on 'Impact of Climate Change on Air Quality, Biodiversity and Agriculture' from October 13-15, 2016 at Amity University, Jaipur.
21. Medhavi Gupta and **Manju Mohan**: Validation of WRF/Chem Model and Sensitivity of Chemical Mechanisms to Ozone Simulation over Megacity Delhi. 16th EMS Annual Meeting & 11th European Conference on Applied Climatology (ECAC), 12-16 September 2016, Trieste, Italy.
22. Shweta Bhati and **Manju Mohan**: WRF Model Evaluation for the Urban Heat Island Assessment. 16th EMS Annual Meeting & 11th European Conference on Applied Climatology (ECAC), 12-16 September 2016, Trieste, Italy.
23. Shweta Bhati and **Manju Mohan**: The Impact of Land Use/Land Cover on WRF Model Performance in a Sub-Tropical Urban Environment. 9th International Conference on Urban

- Climate jointly with 12th Symposium on the Urban Environment 2016, 20-24 July 2015, Toulouse, France. <http://www.meteo.fr/icuc9/presentations/NOMTM/NOMTM11-8.pdf>
24. **Manju Mohan**, Urbanisation and Impact on Local Climate, Keynote Lecture in on 9.7.2015
 25. International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015) at MNNIT, Allahabad October 9-11, 2015
 26. Medhavi Gupta and **Manju Mohan**: Assessment of contribution to PM10 concentrations from long range transport of pollutants using WRF/Chem over a subtropical urban airshed. 9th International Conference on Air Quality – Science and Application, 24-28 March 2014, Garmisch-Partenkirchen, Germany, International, Published
 27. **Manju Mohan** and Medhavi Gupta, Impact of Chemical Mechanisms On Ozone Formation Using WRF/Chem Modelling System: A Case Study; 8th International Conference on Air Quality - Science and Application, Athens, 19 - 23 March 2012, page 242, softcopy of extended abstract published in a CD.
 28. **Manju Mohan**, Yukihiro Kikegawa, B.R. Gurjar, Shweta Bhati, Narendra Reddy Kolli, Assessment of Urban Heat Island Effect for Different Landuse –Landcover from Micrometeorological Measurements and Remote Sensing Data: A Case Study for Megacity Delhi; 8th International Conference on Air Quality - Science and Application, Athens, 19 - 23 March 2012, page 68, softcopy of extended abstract published in a CD.
 29. **Manju Mohan** and Jemson Rupini, Aircraft Emissions and Their Impact On Overall Ambient Air Quality of a Polluted Urban Environment; 8th International Conference, Air Quality - Science and Application on Athens, 19 - 23 March 2012, page 229, softcopy of extended abstract published in a CD.
 30. Kikegawa Y., Y. Ohashi, T. Ihara, **Manju Mohan**, B. R. Gurjar, Observed and simulated interactions between anthropogenic energy consumption and urban climate in Asian megacities, 1st International Conference Energy & Meteorology, Nov. 2011, Gold Coast, Australia
 31. Kikegawa Y., **Manju Mohan**, B. R. Gurjar, K. Hokari, Structure of air temperature distribution and urban warming alleviation potential over Delhi, 8th International Conference on Urban Climate, Aug. 2012, Dublin, Ireland.
 32. **Manju Mohan**, Yukihiro Kikegawa, B.R. Gurjar, Shweta Bhati, Anurag Kandya and Koichi Ogawa. Assessment of Urban Heat Islands Intensities over Delhi. The Seventh International Conference on Urban Climate (ICUC-7), Yokohama, Japan, June 29 to July 3, 2009 Page nos. not available as only softcopy of extended abstract published in a CD
 33. **Manju Mohan** and Anurag Kandya, Forecasting the Urban Air Quality using various Statistical Techniques. The Seventh International Conference on Urban Climate (ICUC-7), Yokohama, Japan, June 29 to July 3, 2009. Page nos. not available as only softcopy of extended abstract published in a CD.
 34. **Manju Mohan** and Shweta Bhati, Why is Megacity Delhi prone to High Atmospheric Pollution Potential?, International Workshop on Regional and International Transport of Air Pollution organized by TF-HTAP at Washington DC, June 8-12,2008.
 35. Shweta Bhati, **Manju Mohan**, Archana Rao, Application of air dispersion modelling for exposure assessment from particulate matter pollution in mega city delhi (Poster), The Seventh International Conference on Urban Climate (ICUC-7), Yokohama, Japan, June 29 to July 3, 2009. Page nos. not available as only softcopy of extended abstract published in a CD.

36. **Manju Mohan** And A.Azohni: Estimation of Ecological Exposure to Sulfure Dioxide Depositions from Thermal power Plants in India, (poster) International Workshop on Regional and International Transport of Air Pollution organized by TF-HTAP at Washington DC, June 8-12,2008.
37. **Manju Mohan**, Shweta Bhatti and S.Archana :Performance Evaluation of AERMOD and ADMS-Urban for Total suspended Particulate Matter Concentrations in megacity Delhi, (poster)International Workshop on Regional and International Transport of Air Pollution organized by TF-HTAP at Washington DC, June 8-12,2008.
38. Anurag Kandya and Manju Mohan, 'Decadal land use/land cover changes in National Capital Region using Remote Sensing Data' in National Symposium on 'Advances in Remote Sensing Technology and Applications with Special Emphasis on Microwave Remote Sensing' organized by Indian Society of Remote Sensing at NIRMA University Ahmedabad; December 18-20,2008.
39. Gurjar, B.R., K. Sharma, **Manju Mohan**, 'Estimation of traffic emissions for megacity Delhi' poster presentation in 16th Annual International Emissions Inventory Conference - "Emission Inventories: Integration, Analysis, and Communications", by United States Environmental Protection Agency (USEPA) held at Raleigh, NC (USA) from 14-17 May, 2007.
40. Gurjar, B.R., **Manju Mohan**, 2007. Industrial Risk Assessment Tools and Techniques: Development of Simple Approaches Appropriate to Developing Countries. Proceedings of Hazardous Chemicals Management Regional Training Workshop, December 10-14, 2007, Asian Institute of Technology, Bangkok, Thailand, p.176-183.
41. Swagata Payra and **Manju Mohan**, 'Relation between fog formation and the number concentration of aerosol for Delhi, India' Seventh Conference on Coastal Atmospheric and Oceanic Prediction and Processes joint with the Seventh Symposium on the Urban Environment, 10-13 September 2007 San Diego, California
42. **Manju Mohan**, Anurag Kandya and Manish Yadav, 'Air Quality Index Estimations from Measurements and Statistical Modelling Techniques Over Delhi', 11th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. at Queens College, Cambridge University, UK from July 2-5, 2007
43. **Manju Mohan** and Manoj Kumar Mishra, 'An Observational Study of Sea Breeze Characteristics over Kalpakkam Coast and Amaipakkam India' in 10th International Conference on Atmospheric Sciences and Applications to Air Quality at Hongkong, China from 14-16 May, 2007, p 107.
44. **Manju Mohan** and Anurag Kandya, 'Air Quality Index Estimations from Measurements and Statistical Modelling Techniques over Delhi' in 10th International Conference on Atmospheric Sciences and Applications to Air Quality at Hongkong, China from 14-16 May, 2007, p 183.
45. **Manju Mohan**, 'Environmental Risk Assessment and Management from Air Toxics in Indian Environment', AISAPHI, IIT Roorkee, Feb. 24-25, 2006
46. **Manju Mohan**, 'Health Risk Assessment and Management from Air Toxics in Indian Environment', in Centre for Science and Environment (CSE) conference on Health and Environment, IHC, New Delhi, March 24-25, 2006, pp10
47. **Manju Mohan** and Swagata Payra, 2006. Analysis of fog formation from meteorological and air pollution measurements, 1st iLEAPS Science Conference Boulder (ISSN 0784-3496), Colorado, USA, 21-26 Jan, pp. 156-158.
48. **Manju Mohan** and Swagata Payra, 2006. Preliminary Investigation between Aerosols and Fog Formation in Urban environment of Megacity Delhi, India, IMPA (International conference on

- Mesoscale Processes in Atmosphere, Ocean and Environmental Systems)-2006, IIT Delhi, INDIA, 14th – 17th February, pp. 98 .
49. Lalit Dagar and **Manju Mohan**, 'Preparation and Validation of Emission Inventory for Megacity Delhi', IMPA -2006, IIT Delhi, INDIA, 14th – 17th February, pp. 103 .
 50. **Manju Mohan** and Swagata Payra, 2004. Fog and Urban Air Pollution over Delhi: Observations and Analysis, IASTA Bulletin (ISSN 0971-4510), Vol. 16. October.
 51. Mudit Narayan and **Manju Mohan**, 'Carcinogenic Effects of Benzene in the Ambient Air- A Study in the Perspective of Delhi', National Conference on Innovative Approaches in the Management of Environment (IAME) held at the Delhi College of Engineering from 17th to 18th October 2003, p 31.
 52. **Mohan Manju** and T. A. Siddiqui, 'Development of an Atmospheric Dispersion Model for Air Quality Assessment', Proceedings of Eighth International conference on "Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes", Sofia, Bulgaria from Oct 14-17, 2002 (Eds. E. Batchvarova and D. Syrakov), pp 355-358; ISBN 954-9526-12-7.
 53. **Manju Mohan**, 'Role of Mathematical Modelling in Fine Dust Air Quality Management' Proceedings of Symposium on Fine Dust Management in Metropolis, 22 September, 2001, Delhi, pp1-12.
 54. **Manju Mohan**, 'Atmospheric Dispersion Models for Airborne Accidental Release of Hazardous Substances for Industrial, Siting, Planning and Management', ENVIRO 2000 second International Seminar on Technologies for Environmental Management, organised by TAFCON Delhi, Sept. 27-29, 2000; pp110-113.
 55. **Manju Mohan**, 'Dense Gas Dispersion Models for estimating vulnerable zones and preparation of Nomograms etc for Chemical Industries' in National Workshop on Environmental Risk Analysis for Handling and Storage of Hazardous Chemicals organised by Environmental Monitoring, Training and Research Centre, Delhi, 21-22 September 21-22, 2000; pp1-9.
 56. **Manju Mohan**, 'Development of Dense Gas Dispersion Model for emergency Preparedness in Chemical Industries' in the Proceedings of the New Millenium Conference on Retrospect of Indian Research on Environmental Pollution: Focus 21st Century organised by EMTRC on 22 November, 1999 at Delhi, p48.
 57. Gurjar, B. R. and **Manju Mohan**, 'IIT-QRA Model: An Indigenou IT Tool for Industrial Siting and Planning' Proceedings of the 13th Engineering Congress, Chandigarh, April 25-26,1999, pp13-20.
 58. Venkatesan, R., K.M. Somayaji, A.R. Sundarrajan and **Manju Mohan**, 'Climatological analysis of Doppler Sodar data at Kalpakkam Coastal Site', in the International Symposium on Monsoon and Pollution over the Monsoon Environment organised by Indian Meteorological Society, Dec 2-5, 1997, IIT Delhi, pp. 126.
 59. **Manju Mohan** and Sanjay Kumar, 'Review of Acid Rain Potential in India: Future threats and Remedial Measures', Atmospheric Science and Ambient Air Quality Conference, University of Washington, Seattle, June 18-20, 1996.
 60. **Manju Mohan** and T.A. Siddiqui, 'Modeling of Surface Fluxes for Air Quality Modeling', Atmospheric Science and Ambient Air Quality Conference, University of Washington, Seattle, June 18-20, 1996.

61. **Manju Mohan**, 'Quantitative Risk Assessment for Petrochemical Industries', Symposium on Environmental Problems, Strategies for pollution control and workable solution in Oil Industry, March 3-4, 1995, ONGC Dehradun.
62. **Manju Mohan** and K.Kondala Rao, 'A technical view on the criteria to be adopted in the determination of Threshold planning Quantities (TPQ'S)'. Proceedings of the INDO-US Workshop on Environmental Risk Analysis: Safety, Planning & Management. January 2-6, 1995, IIT, Delhi, pp. 139-142.
63. B.R. Gurjar, **Manju Mohan** and T.S.Panwar, "A critical evaluation of Chatwin-Sullivan model for concentration fluctuations using large scale field trials". Proceedings of the INDO-US Workshop on Environmental Risk Analysis: Safety, Planning & Management. January 2-6, 1995, IIT, Delhi, pp. 115-116.
64. T.A. Siddiqui and **Manju Mohan**, 'Estimation of turbulent fluxes during stable atmospheric conditions', Proceedings of the INDO-US Workshop on Environmental Risk Analysis: Safety, Planning & Management. January 2-6, 1995, IIT, Delhi, pp. 74-76.
65. **Manju Mohan**, 'Dispersion models for Elevated stacks', National Conference on Environmental Pollution and Preservation of Historical Monuments', October 31- November 1, 1994 Organised by Indian Oil Corporation Limited (IOCL), Delhi.
66. **Manju Mohan**, T.S. Panwar and M.P. Singh, 'Dense Gas Dispersion Model for Emergency Preparedness', National Symposium on Emergency Preparedness & Disaster Management organised by Indian Nuclear Society, TIFR, Bombay, Aug. 3-5, 1993.
67. **Manju Mohan**, T.S. Panwar and M.P.Singh, 'Development of Dense Gas Dispersion Model for the Assessment of Industrial Hazards', Proceedings of the First Annual Conference of Indian Society of Industrial and Applied Mathematics at University of Roorkee, Feb. 4-7, 1993, pp435-438.
68. **Manju Mohan** and O.P.Sharma: 'A numerical urban diffusion model', Proceedings of the International Conference on sustainable Development Strategies and Global/Regional/Local Impacts on Atmospheric Composition and Climate, Jan. 25-30, 1993, IIT, Delhi.
69. **Manju Mohan**, T.S.Panwar and M.P.Singh : 'Development of Dense Gas Dispersion Model for Emergency Preparedness', proceedings of the International Conference on sustainable Development strategies and Global/Regional/Local Impacts on Atmospheric Composition and Climate, Jan. 25-30, 1993, IIT, Delhi.
70. **Manju Mohan**, 'Industrial Growth and Management in Urban Areas', Seminar on Environmental Protection in Developing Countries at Parliament House Annex, May 12, 1992.
71. **Manju Mohan**, 'Development of Dense Gas Dispersion Model for its Application in Real Life Problems', International Conference on Computational and Finite Element Methods, Organized by NBHM at IGNOU, Delhi, October, 1991.
72. **Manju Mohan**, 'Estimation of Hazard Zones due to Accidental Release of Inflammable and Toxic Materials' at the National Seminar on check on Major Accident Hazards in Factories, Lucknow, March 4, 1990.
73. Singh, M.P., **Manju Mohan**, T.S. Panwar and H.V.K. Chopra, 'Atmospheric Dispersion of Dense Materials for Estimating Vulnerable Zones due to Accidental release of Toxic Chemicals', Indo-US Workshop on Environmental Risk Analysis, December 12-16, 1989, IIT Delhi; pp 55-58.

74. Singh, M.P., **Manju Mohan**, T.S. Panwar, 'Atmospheric Dispersion of Inflammable substances for estimating vulnerable zones in hydrocarbon industry', Indo-US Workshop on Environmental Risk Analysis, December 12-16, 1989, IIT Delhi; pp 77-79.
75. Singh, M.P., **Manju Mohan** and S. Ghosh, 'Mathematical Models for recent oleum leakage in Delhi', presented in the International Symposium on "Tropical Micrometeorology and Air Pollution", IIT Delhi, Feb. 15-19, 1988.
76. Singh, M.P., P. Goyal, Swati Basu, P. Agarwal, S. Nigam, **Manju Mohan** and T.S. Panwar, 'Study for traffic carbon monoxide over Delhi', presented in the International Symposium on "Tropical Meteorology and Air Pollution", IIT, Delhi, Feb. 15-19, 1988.
77. Singh M.P., **Manju Mohan** and O.P. Sharma, 'Validation of Boundary layer parameters estimated from routine observation and analysis of various atmospheres stability classification schemes from observations over Delhi (India)'. Presented in the 2nd International Conference on Atmospheric Science and Applications to Air Quality", at Tokyo, Japan during Oct. 3-7, 1988. Preprint page 70.
78. Agarwal, P.S. Nigam, **Manju Mohan**, P. Goyal, S. Basu, M.P. Singh and T.S. Panwar, 'A model evaluation study for traffic carbon monoxide over Delhi', presented in the 2nd International Conference on 'Atmospheric Sciences and Application to Air Quality", Tokyo, Japan Oct. 3-7, 1988, preprint page 89.
79. Bruce, B. Hicks and **Manju Mohan**, 'Marble discoloration of Tajmahal; A proposed explanation', presented at the 8th ICOMOS (International Council of Monuments and Sites) General Assembly in Washington, D.C. during Oct. 12-16, 1987; pp325-332.
80. **Manju Mohan** and O.P. Sharma, 'Estimation and application of turbulence parameters during convective conditions over Delhi', presented in the International Symposium on "Recent Advances in Numerical Modelling for the Dispersion of Atmospheric Pollutants" organised by the Mathematics Section of the 73rd session of Indian Science Congress Associations, Delhi, Jan. 4-5, 1986.
81. Singh M.P., **Manju Mohan** and S. Ghosh, 'Role of Air Pollution Modelling in Industrial Siting & planning for Hazardous materials such as chlorine, Ammonia and other Toxic Gases'. Presented on June 5, 1986 on Environment Day at Jaipur.
82. **Manju Mohan** and O.P. Sharma, 'Turbulence parameters and eddy diffusivity profiles for the city of Delhi during convective conditions', presented in the "National Symposium on Climate Dynamics and Long Range Prediction" held at Physical Research Laboratory, Ahmedabad, Feb. 22-25, 1983.

15. Books/Reports/Chapters/General articles etc.

Complete list of books, monographs etc. published:

S. N	Title	Author's Name	Publisher	Year of Publication
1.	Urban heat island effect in India: assessment, impacts, and mitigation”, Chapter 11 in the book entitled Global Urban Heat Island Mitigation Edited by Ansar Khan, Hashem Akbari, Francesco Fiorito, S K Mithun, Dev Niyogi	Manju Mohan, Shweta Bhati, and Ankur P Sati	Elsevier	2022
2.	Emission Inventory of Air Pollutants and Trend Analysis Based on Various Regulatory Measures over Megacity Delhi. Chapter 6 in the book entitled Air Quality New Perspective	Manju Mohan, Shweta Bhati, Preeti Gunwani and Pallavi Marrapu	Intech (Croatia)	July, 2012
3.	Health Risk Assessment and Management for Air Toxics in Indian Environment’ Chapter 12 in the book entitled Air Pollution Health and Environmental Impacts	Manju Mohan and B.R. Gurjar	CRC Press (Taylor & Francis, USA)	February, 2010
4.	Article: Are You Comfortable Weather-Wise?	Manju Mohan and Shweta Bhati	Science Reporter, Volume 46, No. 5	May 2009
5.	Air pollution control: Technologies in the transport sector	Manju Mohan, Renuka Saini and Shweta Bhati	Asia Pacific Tech Monitor	Nov – Dec 2008
6.	IITD Air Quality Model for Stack Plumes , in the Technical Compendium entitled Towards a Cleaner and Greener Environment	Manju Mohan	Environment Management Division (EMD), SAIL	5 th June 2006
7.	Gas dispersion modelling and its use in estimating potentially affected areas, Chapter 21 of the handbook on Industrial Safety and Pollution Control	Singh, M.P. and Manju Mohan	National Safety Council and Associate (Data) Publishers Pvt. Ltd.	1991

16. Courses Taught (Level PG/UG):

- Atmospheric Physics (ASL733)
- Atmospheric Chemistry and Air Pollution (ASL735)
- Atmospheric Chemistry and Aerosols (ASL808)
- Fundamentals of Weather and Climate (ASL340)
- Physics of Atmosphere and Ocean (ASL705)
- Atmospheric Diffusion and Air Pollution (ASL724)
- Boundary Layer Meteorology and Air Pollution (ASL705)
- Introduction to Micrometeorology (ASL831)
- General Meteorology (ASL830)
- An Advance Course in Micrometeorology and Risk Assessment Techniques (ASL932)
- Air Quality Modelling (CEL892)
- Air Pollution and Control (CEL793)
- Risk Analysis and Safety (IT740)
- Environmental Chemistry (CEP789)
- Sanitary Chemistry and Microbiology for Environmental Engineers (CE789)
- Chemistry Practicals (CYP100)
- Professional Ethics and Social Responsibility (NEN100 and NEN101)

17. A. List of Completed Sponsored Projects: (Total: 33 and As PI/CI 19)

S. No.	Project Title	Sponsoring Agency	Sanctioned Fund	Start Date	Completion Date	Role
1.	Development of National Hazard Profile for the state of Kuwait	RMSI Private Limited, Noida India	₹ 11,46,000	15-11-2019	31-12-2022	CI
2.	Application of numerical weather prediction models to identify probable sites suitable for accumulation of locust swarms and determine their flying path (Under FIRP Scheme of IRD)	IRD, IIT Delhi India	₹ 5,00,000	01-08-2020	31-07-2021	PI
3.	Feasibility study for improving performance of WRF urban canopy model and preparing inputs for human health impact assessment	University of Tokyo Japan	₹ 12,50,000	01-03-2020	31-03-2022	PI
4.	Delhi Air Quality Experiment: A Paradigm Shift in Source Apportionment	Central Pollution Control Board., New Delhi India	₹ 45,64,912	01-08-2019	31-07-2021	Co-PI
5.	International Workshop on "Modelling Atmospheric-Oceanic processes for Weather and Climate Extremes" during March 28-29, 2018 (MAPEX-2019) at IIT Delh	Ministry of Earth Sciences India	₹ 13,26,000	02-01-2019	01-01-2020	PI
6.	Towards an integrated approach for assessing the impact of climatic stresses on agriculture and the exchange of greenhouse gas on the Indo-Gangetic Plain	Department of Science & Technology (International Bilateral Cooperation Division) United Kingdom	₹ 7,48,000	01-08-2017	31-07-2019	Co-PI
7.	DAPHNE: Delhi Air Pollution Health and Effects	Department of Biotechnology, Ministry of Sc.& Tech India	₹ 99,36,000	24-07-2017	18-01-2022	Co-PI
8.	Examining the Role of Realistic Landuse-land Cover Features on Temperature and Rainfall Predictions	Department of Science & Technology` India	₹ 52,86,800	01-05-2017	31-01-2021	PI
9.	Heat-stress Index for India:PROjections for Near Future HIIPROF	Department of Science & Technology` India	₹ 65,23,021	01-03-2017	28-08-2020	Co-CI
10.	Heat Island Study in Angul-Talcher area of Odisha	Odisha State Pollution Control Board	₹ 1,98,00,000	Nov 2015	Nov. 2019	PI
11.	Study of Atmospheric Aerosols Over NCR Using Chemical Transport Model	Ministry of Earth Sciences India	₹ 29,32,320	13-06-2015	28-02-2019	PI
12.	Implementation and Validation of Numerical Models for Heat Island studies in Megacity Delhi	Japanese Ministry Japan	₹ 27,95,432	27-03-2008	31-12-2015	PI
13.	Atmospheric Chemical Modelling in relation to Photochemical Smog over Delhi	Department of Science & Technology` India	₹ 26,18,000	20-11-2007	19-11-2010	PI

S. No.	Project Title	Sponsoring Agency	Sanctioned Fund	Start Date	Completion Date	Role
14.	Dynamics of Urban Pollution: A Curative Strategy Using RS and GIS Techniques - A Case Study of Megacity Delhi.	IRSO Headquarters, Department of Space India	₹ 14,33,000	16-01-2007	31-01-2010	PI
15.	Parameterisation of Boundary Layer Processes and Air quality Modelling in the Tropical Coastal Belt	Council of Scientific & Industrial Research (CSIR) India	₹ 6,49,116	01-06-2006	31-08-2009	PI
16.	Quantative Risk Assessment from Acute and Chronic Exposure of Fine Particulate Matter due to Anthropogenic Emissions in the Urban Environment of Mega-city Delhi	Ministry of Human Resource Development India	₹ 19,00,000	31-03-2005	30-09-2008	PI
17.	Fog Prediction Model over Delhi	Department of Science & Technology` India	₹ 8,55,120	10-06-2003	08-12-2006	PI
18.	Atmospheric Dispersion Modelling for Air Quality Assessment in Coastal Environment	Atomic Energy Regulatory Board India	₹ 28,50,179	22-04-1997	31-03-2002	PI
19.	Acid Rain Potential in Asia	The University of Iowa, Centerfor Global & Reg. En India	₹ 7,69,000	17-01-1995	01-09-2001	PI

17 B: List of Other Sponsored/International Collaborative Projects (Pre-1998)

Sl. No.	Title	Sponsor	Role
20.	Mathematical Modeling of the Dispersion of Air Pollutants Related to Indian Conditions	AICTE	Co-PI
21.	Air Pollution Assessment Technology at Tropical Area-India	NRIPR, Tsukuba, Japan	Co-PI
22.	Numerical Modeling of Atmospheric Features over India including Air Pollution Modelling Studies and Related Field Program	British Council,UK	Co-PI
23.	Numerical Modeling of the Atmospheric and Oceanic Processes in the Tropics	NSF, USA	Co-PI
24.	Estimation of Dispersion Parameters by SF6 experiments in Tropics	NSF, USA	Co-PI
25.	Vulnerability Analysis due to storage of extremely hazardous Chemicals	MOEFCC	Co-PI

17 C: List of Consultancy Projects (Pre-1998)

S. No	Title	Funding agency	Role
26	Ambient Air Quality Assessment Through Atmospheric Dispersion Modeling of CS ₂ and H ₂ S from Grasilene Division, Kumarpatanam, Karnataka	Grasim Industries	Consultant Incharge (CI)
27.	Ambient Air Quality Assessment Through Atmospheric Dispersion Modeling of CS ₂ and H ₂ S from VFY manufacturing plant of Century Rayon, Shahad (Kalyan), Maharashtra	Association of Man-made Fiber Industry of India, Bombay	CI
28.	Environmental Impact Assessment (Air Quality) of proposed 500MW Thermal Power Plant in Chittorgarh, Rajasthan	Century Textiles and Industries Limited, Bombay	CI
29.	Ambient Air Quality Assessment Through Atmospheric Dispersion Modeling of CS ₂ and H ₂ S from Single Rayon Plant Stack	Grasim Industries	CI
30.	Estimating Vulnerable Zones for Risk Assessment of Multiple Chlorine storage at Matsya Ind. Area, Alwar(Raj.) by Estimating Vulnerable Zones for Risk Assessment of Multiple Chlorine storage at Matsya Ind. Area, Alwar(Raj.)	Rajasthan State Poll. Control Board, Jaipur	CI
31.	Risk Analysis Due to Accidental Release of Toxic Gases, Especially like Cl ₂ , NH ₃ & HCN etc. by DRDE, Gwalior	DRDE, Gwalior	Co-CI
32.	Determining Zone of Influence for Chlorine Plant at Alwar	Modi Alkalies and Chemicals Limited, New Delhi	Co-CI
33.	Environmental Impact Assesment Study for Bagasse based News Print Project at Hempur (Nainital)	The National News Print Paper Mills Ltd., Napanagar	Co-CI

18. Students' supervision:

18 (A). Ph. D. Thesis Supervision/Co-Supervision: Ongoing (4)

1. Anie K. Lal (2020ASZ8178): Impact of urbanisation and atmospheric pollution on wintertime fog based on WRF-Chem over the Indo-Gangetic Plain (with Prof. Ravi K. Kunchala)
2. Jerin B Chalakkal (2018ASZ8005): Impact of Urbanization and Orography/topography on Extreme precipitation Events
3. Shibin B (2017ASZ8472): Severe Weather Prediction of Urban areas using Mesoscale Models (with Dr. M. Mohapatra, IMD, Delhi)
4. Rahul Chaurasia (2017ASZ8030): Enhancing Performance of Regulatory and Chemical Transport models with Improved Emission Inventory and estimated background concentrations

18 (B). Ph. D. Thesis Supervision/Co-Supervision: Completed

- Vivek Kumar Singh, 2022: Industrial and Urban Heat Island Study from observations and atmospheric modelling

- Sarita Kumari, 2021: Land-atmosphere interactions in spring wheat croplands of India: A numerical study using a coupled model (with Prof. AD rao and Prof. SB Roy)
- Ankur Prabhat Sati, 2020: Impact of Urbanization on Meteorology and Air Quality based on Mesoscale Numerical Models
- Medhavi Gupta, 2019: Application of WRF-CHEM model for improved estimation of atmospheric pollutants over national capital region, Delhi
- Preeti Gunwani, 2019: Assessment of WRF-Chem for simulating meteorology and air quality in different climatic zones over India
- Shweta Bhati, 2017: Application of Numerical Models to Assess the Impact of Urban Heat Island on Atmospheric dispersion of reactive pollutants
- Anurag Kandya, 2015: Assessment and Mitigation of Urban Heat Island Effects due to Anthropogenic Emissions
- Swagata Payra, 2012: Fog Prediction using statistical and Numerical Models
- Lalit Kumar, 2013: Atmospheric Chemical Modelling of Secondary Pollutants and Precursors over an Urban Area
- Manoj Kumar Mishra, 2006: Atmospheric Dispersion Modelling and Micrometeorological Studies for Air Quality Assessment in Coastal Environment
- B.R. Gurjar, 2000: Environment Risk Assessment Techniques in safety, planning and Management of Industrial Hazards (with Prof. Pramila Goyal)
- T.V.B.P.S. Ramakrishna, 1998: Air Quality Model for Indian Meteorological conditions in urban cities of India (with Prof. Pramila Goyal)
- Pratibha Singh Parihar, 1997: Observational and Simulation Studies of ABL Over the Western Sector of Monsoon Trough (with Prof. U.C. Mohanty)
- R. Venkatesan, 1996: Atmospheric Dispersion Modelling over a Coastal and Hilly Complex Terrain (with Dr. P. Aggarwal)
- T.A. Siddiqui, 1995: Parameterisation of Dispersion Characteristics in ABL and their use in Developing Air Quality Models

18 (C). M.Tech Thesis Supervision:

S. No.	Student Name (s)	Semester & Year	Thesis title	Co-supervisor (if any)
1.	Joginder	2020-2021	Effect of lockdown amid COVID-19 pandemic on air quality of the megacity Delhi, India	Ravi K. Kunchala
2.	Prashant Kumar (2019AST2583)	2020-2021	Impact of Climate Change on Ozone and PM _{2.5} over National Capital Region, Delhi using Multiple datasets.	“
3.	Manoj Kumar Pandey (2019AST2581)	2020-21	Impact of climate change on ozone over Indo Gangetic Plain (IGP) Region using CMIP5 model and reanalysis datasets (I Sem. only)	“

4.	Isha Singh 2018AST2724	2019-20	Emission Inventory, Dispersion Modeling and Assessment for Source Contribution of Pollutants in Delhi	None
5.	Gp Capt VS Srinivas (2017AST2850)	2018-19	Fog Forecasting using Statistical and Numerical Weather Prediction methods	None
6.	Diljit Kumar Nayak (2017AST2007)	2018-19	Impact of Built-up Structures in altering the Land Surface Temperature and its effect on Thermal Comfort using a 3D Micro-Scale meteorological model	None
7.	Azad Singh Rajput (2016AST2153)	2017-18	Assessment of Urban Heat Island study by using LCZ classification for Delhi region	None
8.	Shreya Singh (2016AST2157)	2017-18	Assessing Impacts of Aerosols on Visibility using Chemical Transport Modeling	Sagnik Dey
9.	Pawan Kumar Pathak (2015AST2066)	2016-17	Visibility prediction from Atmospheric Chemical Modelling	None
10.	Saurabh Gautam (2014AST2295)	2015-16	Assessment of urban heat island for some selected cities of India using satellite data	None
11.	Rahul Jain (2014AST2292)	2015-16	Fog prediction using WRF model based on a multi-rule based Diagnostic approach	None
12.	Jyotika Rai (2013AST2047)	2014-15	Identification of temperature hotspots and assessment of Urban heat island effect over India using remote sensing data	None
13.	Rizwan Ahmed (2010AST3455)	I Sem. 2012-13	Application of Satellite Remote Sensing in Detection of Fog/Low Clouds over Northwest India.	Sagnik Dey
14.	Pawan Pal (2011AST3563)	I Sem. 2012-13	Air Quality Analysis using Remote Sensing Data	None
15.	Sanchit Mehta (2010AST3447)	I&II sem. of 2011-12	Performance Characteristics Evaluation of Different Air Quality Models	None
16.	Medhavi Gupta (2009AST3213)	I &II Sem. of 2010-11	Atmospheric Chemical Modelling for Air Quality Assessment of Megacity Delhi	None
17.	Bhagavth Singh	2010	Atmospheric Dispersion Simulation in a Coastal Terrain using Coupled Mesoscale and Dispersion Model	None
18.	Sriram Phanindra	2010	Assessment of Regional Air Pollution for an Urban Area	Mukesh Khare
19.	M.S. Swami Naidu	2010	Assessment of Air Pollution Potential for Some Major Urban Cities	“
20.	Jemson Rupini	2008	Estimation of Aircraft Emissions and its Impact on Ambient Air Quality using ISCST-3 Model	“
21.	B. Arunachalam	2008	Urban Heat Island Intensity Trends in National Capital Region	“

22.	M. Pallavi	2007	Assessment of Some Criteria Air Pollutants at Different Emission Hotspots Over Delhi	“
23.	S. Archana	2007	Exposure Assessment due to Particulate Matter over Delhi City	“
24.	Naveen Kumar	2006	Study of Dispersion Characteristics for Air Quality Assessment based on Measurements	“
25.	A. Azhoni	2006	Estimation of Ecological Exposure to SO ₂ Emissions from Thermal Power Plants in India	“
26.	Anurag Kandya	2006	Air Quality Assessment over Delhi using statistical Modelling Techniques	“
27.	Manish Yadav	2005	Air Quality Index Assessment from Modeling and Measurements	“
28.	Sumit Kaur Rekhi	2005	Air Quality Assessment from TPP Emissions in NCR	“
29.	Kumar Avinav	2000	Identification of regions of significant sulphur deposition (wet and dry) in India and the mitigating measures using Rains-Asia Model	“
30.	Mohan Snehi	1999	Estimation of dispersion Coefficients for ambient air quality	From GJU, Hissar
31.	Sunita Verma	1999	Atmospheric Dispersion Modelling for Concentration evaluation due to radioactive releases	“
32.	Charu Agrawal	1999	Acid Rain Potential due to large point Sources in Bihar region	“
33.	Mohammad Akhtar	1998	Air Quality Assessment for some coastal Industries in India	“
34.	Peyush Kumar	1998	An analytical model for Atmospheric Dispersion from tall Stacks: Some Case Studies	Mukesh Khare
35.	Mayank Dube	1998	Ambient Air Quality Assessment over Delhi	Pune University

18 (D). B. Tech. Thesis Supervision: Completed

S. No.	Student Name (s)	Semester & Year	Thesis title	Co-supervisor (if any)
1	Ankur Kalhar (2004CE10243)	I & II Sem. of 2007-08	Assessment of Air Pollutants from Mosquito Repellents	M.Khare
2	Jagjeet (2003CE10252)	I & II Sem. of 2006-07	Indoor Air Quality in a Naturally ventilated School Building,	“
3	Harsh Bansal (SRFP programme)	15 May to 8 July, 2010	Atmospheric Pollution in Iron and Steel Industry and Air Dispersion Modelling	None

4	38 B.Tech. Students completed NEN203 students each Projects as 9 Teams of 4 Under Sustainable IITD programme, 2018	2018-19	Air Quality Index estimation related to special drive on pollution control	None
5	Mayur Raj Singh (Entry No. 2019VST9507), MS; IISER Pune (Winter Internship)	2018-19	Characteristic features of Surface Winds and a case Study of Cold Wave Episode over National Capital Region (NCR), Delhi	None
6	Mayur Raj Singh (Entry no. 20171194) , BSMS dual degree, IISER, Pune	2021-22	Assessment of Diurnal Temperature Range and Urban Heat Island effect over megacity Delhi	None

19. Training/International participation

Sl No.	Place of training/research	Position	Period from	Period to	Country	No. of months
1.	IITM, Pune	Participant	18-6-1984	29-6-1984	India	0.5
2.	ATDL, Oak Ridge; NCSU, Raleigh	PDF/Visiting Scientist	23-3-1987	26-6-1987	USA	3.0
3.	8 th ICOMOS (International Council of Monuments and Sites) General Assembly in Washington, D.C.	Paper presentation	12-10-1987	16-10-1987	USA	0.25
4.	Royal Netherlands Meteorological Institute	PDF/Visiting Scientist	2-11-1987	5-2-1988	The Netherlands	3.0
5.	NCSU, Raleigh and ASAAQ meeting Tokyo (Collaborative meetings and conf. presentations)	Collaborative Project work and paper presentation	3-10-1988	20-10-1988	USA and Japan	0.5
6.	ICTP, Trieste (Training workshop)	Participant/ Lecture	27-5-1990	16-6-1990	Italy	0.7
7.	Univ. East Anglia, Norwich; Met. Res. Unit, cardington and Bracknell; Cambridge Univ.; HSE, Bootle	Collaborative project work	15-8-1993	7-10-1993	UK	1.75
8.	National Institute for Resources and Environment, Tsukuba	Collaborative project work	26-2-1994	13-3-1994	Japan	1.25
9.	University of Iowa, Iowa University of Washington, Seattle	Collaborative project work and Conf. presentations	19-6-1996	26-7-1996	USA	1.25
10.	IIASA, Laxenburg; MPI, Mainz; Rodina Hotel, Sofia	collaborative meetings, Invited talk and Conf. presentation)	12-10-2002	24-10-2002	Austria, Germany and Bulgaria	0.5
11.	14 ASAAQ meeting, Hongkong	Conf. participation and presentations	14-5-2007	16-5-2007	China	0.1

12	Harmo11 Atmospheric Dispersion Conf., Queens College Cambridge and Mechanical Engg. Dept., Cambridge University	Conf.presentations and Scientific meetings	2-6-2007	12-6-2007	UK	0.3
13.	Male Declaration on Air Pollution, RSC meeting, Male	Invited talk and scientific deliberations	2-10-2007	3-10-2007	Maldives	0.1
14.	TFHTAP meeting, Washington DC and University of Hunstville	Presentations, Invited talk and scientific discussions	8-6-2008	20-6-2008	USA	0.4
15.	Male Declaration on Air Pollution, RSRC meeting, Colombo	Presentation and scientific discussions	19-8-2008	20-8-2008	Srilanka	0.1
16	Meisei University, Tokyo	Collaborative project work	20-12-2008	26-12-2008	Japan	0.25
17.	HTAP Meeting, Paris	Presentations and scientific discussions	15-06-2009	19-06-2009	France	0.25
18.	ICUC9 Yokohama and Meisei University, Tokyo	Conf. presentations and collaborative project work	29-6-2009	8-7-2009	Japan	0.3
19.	UNECE/CLRTAP Task Force on Hemispheric Transport of Air Pollution, Arona	Scientific deliberations	6-6-2011	8-6-2011	Italy	0.1
20.	8th International Conference on Air Quality - Science and Application, Athens	Presentation and Scientific deliberations	17-3-2012	25-3-2012	Greece	0.25
20.	TFHTAP meeting and AGU, Sanfrancisco	Scientific deliberations and presentation	4-12-2013	16-12-2013	USA	0.3
20.	4th Intl Conf on Countermeasures to UHI, NUS, Singapore	Conf. presentations	30-5-2016	4-6-2016	Singapore	0.1
21.	Intl. Conf. on Urban Meteorology and Climate, City University Hongkong	Keynote speaker and Co-Chair	25-5-2017	26-5-2017	Hongkong	0.1
22.	Workshop on Status of Climate Science and Technology in Asia, Kuala Lumpur	Invited talk	15-11-2018	16-11-2018	Malaysia	0.1
23.	Workshop on Disaster Resilience Cities, ANCST/NUOF, Kualalumpur	Delivered a talk	28-06-2018	29-6-2018	Malaysia	0.1
24.	ICUC11, UNSW Sydney; RMIT Melbourne and NUS, Singapore	Conference presentations, Invited talk and scientific meetings	28-8-2023	11-9-2023	Australia, Singapore	0.5

20. Work Experience: Administration

20 (A) At Institute Level:

S.No.	Position/Role	Duration
1.	Head, CAS	Sept., 2016-Aug., 2020
2.	Associate Dean, Student Welfare	July 1, 2014 to June 30, 2016
3.	Member, IoE expert committee to evaluate the proposals of all the 29 academic units of the institute for the IoE funding	2020-21
4.	Chairperson, Internal Complaints Committee (ICC)	Oct., 2022 to Jan., 2023
4.	Head of the House (erstwhile House Master), Kailash Hostel	2012 to date
5.	Member, Award Committee for BHM stalls	2024
6.	Member, Executive Committee, Faculty Forum	2014-2015
7.	Member, committee to adjudge the best managed hostel for the year 2010-2011	2010-2011
8.	Warden, Kailash Hostel	2003-2010
9.	Chairperson, committee to adjudge the best managed hostel for the year 2011-2012	2011-2012

20 (B) At CAS:

S. No.	Position/Role	Duration
1.	Member, Faculty Performance Assessment Committee	2014-2023
2.	Chairperson/Member of Faculty Selection Committee, Executive Committee Senate (ECS), PDF selection Committee, Faculty Shortlisting Committee, Faculty Appraisal Committee, PC and many other Committees, many of these as Ex-officio Head	2016-2020
2.	Member, Write-Off Committee	2015-to date
3.	Member, Alumni Affairs Committee	2020- to date
4.	Member, GATI committee	2021-22
5.	Member, Academic Affairs Committee	2021-22
6.	Member, Infrastructure Committee	2016-2023
7.	Member, Policy Committee at the Centre for Intl. and ext. Review	June, 2014
8.	Member, Search Committee: Faculty Recruitment	Dec. 2013 to 2020

9.	Chairperson, CRC	Oct. 1, 2013 -Sept 14, 2016
10.	Lab Incharge: Air Quality Modelling Laboratory I and II	2003-2004 (AQ Dry Lab), 2008 to 2023; 1990-1991
11.	Faculty coordinator, Nucleus committee, Training and Placement	July, 2012-August, 2016
12.	Facility Incharge	Sept., 2010-to Sept.,2012
13.	Secretary, CRC and Representative to BPGS Member, CRC	2003- 2006;and 1992-94 2016-2020; 2008-2010 and 1992-1995
14.	Programme Coordinator, M.Tech and Ph.D.	Sept.,2008 to Aug.,2010
15.	Coordinator, Preparation of M.Tech programme of CAS including courses for approval by the institute	2002-2003
16.	Incharge, report writing; CAS	Sept., 2006 to Aug.,2010 and 2000-2001
17.	Member, Alumni Affairs Council	Sept., 2008 to Aug.,2012
18.	Member, Advisory Committee of Library Library-Incharge, CAS	2006-2009; 1997-99 2007-2009; 1997-2000
19.	Member, committees for renovation of Committee room, research scholar room, office lobby	2000-2001
20.	Secretary,FB; CAS	1989-1992; 2002-2004