

Biodata

Name:	Dr Umesh Chandra Kulshrestha
Designation:	Professor Director, Trans-Disciplinary Research Cluster, JNU (Honorary) Deputy Director, South Asia Nitrogen Center (Honorary)
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Date of birth:	December 01, 1968



Research interests:

Air Pollution, Atmospheric Chemistry and Climate Change, Environmental Analytical Chemistry, Atmospheric Dust, Transport and Chemical Transformations, Chemistry of Rain and Snow, Reactive Nitrogen, Air Pollution Biomonitoring, Metal Aerosols, Carbonaceous aerosols, Atmospheric Mercury, Socioeconomic impact of air pollution, Environmental Impact Assessment.

Educational qualification:

M Sc (Chemistry)	1989	Agra University, Agra (India)
B Ed	1990	Dayalbagh Educational Institute, Agra (India)
Ph D (Chemistry)	1994	Dayalbagh Educational Institute, Agra (India)
Post Doc	1994-98	National Physical Laboratory, New Delhi Dept. of Meteorology, Stockholm University, Sweden

Previous jobs:

Scientist (various positions) CSIR-Indian Institute of Chemical Technology, Hyderabad, INDIA.

Publications:

Research papers and Reviews:	86
General Science articles:	14
Books:	05
Book Chapters:	12
Technical reports:	02

Citations/h-index: 2431/25

Awards and honors:

- Fellow, Indian Geophysical Union (IGU).
- International START Young Scientist Award 2000 by IGBP-START (*System for Analysis, Research and Training for global change*) Washington DC, USA.

- [Thomas Kuhn Honour Pin Award](#) 2002 by The International Union of Air Pollution Prevention & Environmental Protection Associations (IUAPPA) and the International Academy of Sciences.
- [CSIR Young Scientist Award](#) 2004 by Council of Scientific and Industrial Research, New Delhi.
- [M S Krishnan Gold Medal](#) 2004 by Indian Geophysical Union (IGU).
- [IICT Gaurav Samman](#), 2005 Award by Indian Institute of Chemical Technology, Hyderabad.
- [Elected Associate Fellow](#) of Andhra Pradesh Academy of Sciences.

Professional Achievements/Experience:

- Acted as South Asia Coordinator for aerosol and precipitation chemistry measurements for IMI Stockholm University under Atmospheric Brown Cloud project (2006-09).
- Expert Reviewer of IPCC AR5 (WG1).
- Review Editor of WMO/UNEP Integrated Assessment Report on Black Carbon and Ozone 2011.
- Acted as Expert member and Indian Mentor, Air Pollution India Training Programme organized by Swedish Meteorology and Hydrology Institute, Norrkoping, Sweden (2009-10).
- Member, EIA Accreditation Committee, NABET (Quality Council of India).
- Member, Academic Committee, Military College EME, Secunderabad.
- Member, Academic Committee, Naval Academy, Ezimala.
- Member, Board of studies, Faculty of Social and Political Sciences, Dayalbagh Educational Institute, Agra
- Member, Academic Advisory Board, TERI.
- Expert Member, Indira Gandhi National Tribal University, Amarkantak (M.P).
- Jury member DST INSPIRE programme.
- Member of Expert committee of EPTRI on Andhra Pradesh Govt GO-111 regarding safeguards of drinking water in Usman Sagar and Himayat Sagar in Hyderabad (2007).
- Ex-Member JNU Committee on Defense Institutions (2012-14).
- Expert member, Ministry of Environment, Forests and Climate Change.
- Jury member, Uttarakhand S&T Council Congress (2012).
- Member, MHRD-GIAN, Sectional Committee for Earth & Environment Sciences.
- Member, MHRD-GIAN, Sectional Committee for Inter-disciplinary Sciences.
- Expert member, MHRD Committee of Overseas Fellowship.
- Member, Scientific Advisory Committee-DUST 2016 International Conference held in Italy.
- Editorial Board member: J Indian Geophysical Union.
- Editorial Board member: Journal of Energy, Environment and Carbon Credits.
- Guest Editor Special Issue on trajectories of Advances in Meteorology.
- Ex-Editorial Board member: Indian Journal of Chemistry A (CSIR).
- Ex-Member, UGC Project Review Committee.
- Constant Reviewer for reputed journals.
- Examiner for Ph D Theses for different universities.
- Delivered **Key Note Address** on Global warming and Climate Change on World Environment Day (June 5, 2007) at Agartala, Tripura, India.
- Delivered **Key Note address** on `Air Pollution and Climate Change Issues in South Asia during symposium held at Sahu College, Naziabad, (Uttar Pradesh) on March 27, 2016.

Projects/Programmes Associating/Associated with:

- AIT-UNEP project on rural aerosols and climate change.
- Atmospheric Brown Cloud (ABC) project with IMI Stockholm University, Sweden.

- UGC major research project on Air pollution and plant stress.
- UGC UPEII Project on Atmospheric mercury.
- Indian Space Research Organization-Geosphere Biosphere Programme (ISRO-GBP) project on sources of urban atmospheric aerosols at Hyderabad.
- Indo-Swedish Project on Aerosol and Precipitation Chemistry under [RAPIDC programme](#) of SIDA.
- [IGAC-DEBITS](#).
- [CAD](#) (Composition of Asian Deposition) programme of DEBITS (IGBP-IGAC)
- ISRO-GBP Integrated Campaign on Aerosol Radiation Budget (ICARB) Campaign.
- ISRO-GBP [Land campaign II](#) on Atmospheric Chemistry.
- International comparison of [QA/QC in chemical analysis under EANET](#) (East Asia Precipitation Network), Japan.
- [Indian Reference Material](#) (IRM) project.
- ONGC (Oil and Natural Gas Commission), Goa project on `Trace metal determination in sea water samples by ICP-MS.
- Indian Ocean Experiment ([INDOEX](#)), a multinational and multidisciplinary programme.
- [CAAP](#) (Composition of Atmospheric Aerosols and Precipitation in India and Nepal) programme under IGAC (IGBP) and CSC (UK) Coordinated by NPL, New Delhi and IMI, Stockholm.

Overseas visits: Widely travelled

Invited talks/lectures: Delivered a number of invited talks and lectures at different platforms worldwide.