

Highlight of the Contributions

Prof. U. C. Mohanty has made outstanding contributions towards research, development, growth and significant progress in meteorology in India. His academic and scientific contributions through teaching and research guidance in atmospheric sciences for more than 40 years are helping to enhance the understanding of weather and climate science. His encouragement, dedication, contribution and excellent knowledge in meteorology are enhancing the prediction skill of various meteorological disasters that affect mainly the Indian subcontinent. He has actively involved in several national/international field experiments such as MONEX, MONTBLEX, INDOEX, BOBMEX, ARMEX, LASPEX, CTCZ and initiated and steered the STORM programme. He has taken keen interest to improve the theoretical knowledge as well as practical implementation of dynamical and statistical modeling for weather and climate predictions which lead to organize several SERC schools as well as a number of workshops and training programmes on different aspects of meteorology. He has published more than 200 research papers in international and national peer reviewed/cited journals and guided 29 Ph.D. and 10 M.Tech students till date.

He was visiting scientist at several leading International organizations/universities including European Centre for Medium Range Weather Forecasts, UK; National Centre for Atmospheric Research, USA; National Centers for Environmental Prediction, USA; University of Reading, UK; North Carolina State University, USA; Florida State University, USA; Purdue University, Naval Research Laboratory, USA etc. He is continuing his responsibilities as chairman of Programme Advisory Committee (PAC) in Atmospheric Sciences, Scientific and Engineering Research Board (SERB), DST, Govt. of India, Fund for Improvement of S&T Infrastructure (FIST) in Earth System Sciences, DST, Programme Implementation Committee (PIC) for Severe Thunderstorms Observations and Regional Modelling (STORM) programme, MoES, Govt. of India. He is also serving as member of National Monsoon Mission, IITM, Governing Council of IITM and many other committees / programmes. In addition, he is also active member of American Meteorological Society, Indian Meteorological Society, and several academic councils / research committees and governing councils in a number of leading institutes / universities/organizations in India. His active involvement and servicing as a Vice-President and member for about 8 years in the National Council of IMS helped to strengthen the organization. His outstanding involvement as a member of a large number of TROPNETs & INTROMETs conference conducted by IMS make the events successful

In recognition of the exceptional contribution of Prof. Mohanty in Atmospheric Sciences, he has been honoured with prestigious Shanti Swarup Bhatnagar Prize in Earth, Atmosphere, Ocean and Planetary Sciences, 12th Mausam Award, Prof. M.G. Deshpande Award, AR&DB Silver Jubilee Award, Samant Chandra Sekhar Award and Sir Gilbert Walker gold medal. He has also been elected as Fellow of Indian Academy of Sciences, Fellow of National Academy of Sciences, Fellow of Indian National Academy of Engineering, Fellow of Indian Meteorological Society, Fellow of Indian Geophysical Union, Life Member of Society for Scientific Values and elected as Senior Associateship of ICTP, Trieste, Italy, Member of International Coordinating Committee (ICC) of Climate and Ecosystems Change Adaptation Research (UN-CECAR), UNU, Japan. He is also life member of a large number of academic and professional societies and committees.