

Biographies for Speakers presenting during 'WCSSP Country Partner Messages'

Keynote messages reflecting the international community's scientific focus on the impacts of climate change and extreme weather events.

- **Professor Guoxiong Wu – Academician and Life Tenure Professor, Institute of Atmospheric Physics (IAP), Chinese Academy of Sciences**

Prof. WU is mainly engaged in weather dynamics, climate dynamics and atmospheric general circulation. He is closely involved in studies on the effects of the Tibetan Plateau on atmospheric general circulation, weather and climate, on the formation and variation of the subtropical anticyclones, and on the dynamics of the Asian monsoon. Over the past 20 years, WU has been actively involved in the international climate community, which include the Ordinary Member of the Executive Board of International Council of Science (2011-2014), president of International Association of Meteorology and Atmospheric Sciences (2007-2011), Officer of WMO/ICO/ICSU Joint Science Committee, World Climate Research Program (2005-2010). He was elected an Honorary Fellow of the Royal Meteorological Society, UK in 2012 and a Fellow of the American Geophysical Union in 2015.

- **Dr Osvaldo Moraes - Director, CEMADEN, Brazil**

Graduate and Doctorate in Physics. His field of expertise is Atmospheric Physics. Professor at Federal University of Brazil in Santa Maria. Currently is the Director of the Brazilian Early Warning Monitoring Centre for Natural Disaster (CEMADEN). He was Head of Centre for Weather Forecast and Climatic Studies (CPTEC) from National Institute for Space Research (INPE), Scientific Director of the Brazilian Meteorological Society and Scientific Director of the Rio Grande do Sul State Research Foundation. Moraes's publications focus on surface-atmosphere interactions, boundary layer meteorology and disaster risk reduction. Throughout his career he has helped develop and lead widely-recognized graduate programs and served on advisory committees of the Brazilian National Council for Scientific and Technological Development (CNPq).

- **Prof. Ravi Shankar Nanjundiah, Director, Indian Institute of Tropical Meteorology (IITM)**

Prof. Ravi Shankar Nanjundiah has joined IITM as Director w.e.f. 02 March 2017. Before joining IITM, he was Chairman of the Centre for Atmospheric and Oceanic Sciences at the Indian Institute of Science (IISc), Bengaluru.

Prof. Ravi worked on thesis entitled 'Study of Intraseasonal Variations of the Tropical Convergence Zones in a Simple Monsoon Model' and obtained his PhD in Atmospheric Sciences from IISc, Bengaluru in 1992. Dr. Nanjundiah did ME (Mechanical Engineering) from IISc, Bengaluru in 1986. He obtained his BE (Mechanical Engineering) degree from Rani Durgavati University, Jabalpur in 1984.

Study of Monsoon and its variability using climate models, application of High Performance Computing/Grid Computing for climate and weather-related studies, and use of Machine Learning Techniques for Monsoon prediction and downscaling are his key areas of interest.

He has worked extensively on the different aspects of the Indian Summer Monsoon. Prof. Nanjundiah has many awards and honours to his credit. A few to mention are: Nvidia Innovation Award 2013; Adjunct Faculty, ICTS-TIFR 2011-2014; Associate Editor, Journal of Earth System Sciences (published jointly by the Indian Academy of Sciences, Bangalore and Springer), 2008-2014; and Sir CV Raman Young Scientist Award for the year 2000 in the field of Earth Sciences. He is also a Member of the Editorial Advisory Board of Dynamics and Statistics of the Climate System (a new journal recently launched by Oxford University Press).

Prof. Nanjundiah started his research career as a Post-Doctoral Fellow at the Mathematics and Computer Science Division of Argonne National Laboratory, USA. He worked there in the CHAMMP (Computer Hardware, Advanced Mathematics and Model Physics for studying global change) project during February 1993-February 1995. Then, in July 1995, he came back to India and joined the Centre for Atmospheric and Oceanic Sciences (CAOS) at IISc, Bengaluru as an Assistant Professor. At CAOS, he continued his successful story and grew to become Associate Professor in July 2001, Professor in July 2007 and the Chairman of the Centre in December 2013.

Prof. Ravi has been active in human resource development and so far, has guided 08 PhD, 04 M.Sc. (Engg.) and 08 M.Tech. students and is currently guiding 07 PhD and 01 M.Tech. students.

He has 70+ peer-reviewed publications in national and international journals and has presented at many conferences.