

Young Researcher Fellowship Programme (YRFP)

IARSc offers fellowships for six months to fresh graduates in Aerospace engineering, Civil and Mechanical engineering; and Master degree holders in Mathematics, Physics, Atmospheric Science, Oceanic Science, Space Science, Fluid dynamics. Young Researchers are placed with research faculty/scientists at IARSc or elsewhere in India. Selected researchers get an opportunity to work for state-of-art research projects and is expected to lead to publications in leading journals. This programme provides an opportunity for young scientists to pursue graduate studies/research career at IARSc or leading organization elsewhere.

Mr N Narendra Reddy, Young Researcher, AOSS, IARSc, Bangalore

Events at IARSc

➤ During AOGS 2016, a session on "Precipitation Science and Application of Satellite Data In Asia" was convened under Atmospheric Sciences during 31 July-5 August, 2016 at Beijing, China. (Dr Kusuma G Rao was one of the conveners).

➤ Invited for Joint PI Workshop of Global Environment observation 2016 of JAXA, Tokyo, Jan 23-27, 2017 (Dr Kusuma G Rao, Invitee)

➤ Doctoral thesis on "Impact of Mesoscale Convective Systems of the Indian Summer Monsoon on the Surface Layer and the UTLS region using PRWONAM measurements" in Atmospheric Sciences submitted to CUSAT, Kochi by N. Narendra Reddy, 2017 (Research Advisors: Dr Kusuma G Rao and Prof K Mohankumar)

Future Activities at IARSc

➤ AOGS 2017: A session on "Precipitation Science and Application of Satellite Data" is being convened under Atmospheric Sciences during Aug 3-7, 2017 in Singapore. (Dr Kusuma G Rao as one of the conveners)

➤ 'IARSc Programme on Science, Technology and Applications (IPSTRA)', an education Programme will be initiated for Young Scientists to maximize Satellite Data utilization in the areas of Space and Atmospheric Sciences.

➤ IARSc Programme on Atmospheric Modelling (IPAM); an educational and advanced scientific programme, will be initiated to create awareness in schools/colleges

Contact

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**INSTITUTE FOR ADVANCED RESEARCH IN SCIENCE
(IARSc)
Bangalore**



IARSc
KNOWLEDGE 360°

**INSTITUTE FOR ADVANCED
RESEARCH IN SCIENCE**

2016 - 2017

About IARSc, Bangalore

Institute for Advanced Research in Science (IARSc) aims to promote and conduct world-class research with the involvement of scientists, academicians, researchers and educationists across the globe pursuing basic research and applied sciences. The institute also aims to foster research and create opportunities to fill the gaps and for practical implementation of scientific innovations through collaborative and exchange programmes.

Post Graduate Programmes

Initial focus is to introduce post-graduate studies in Science and Inter-disciplinary areas.

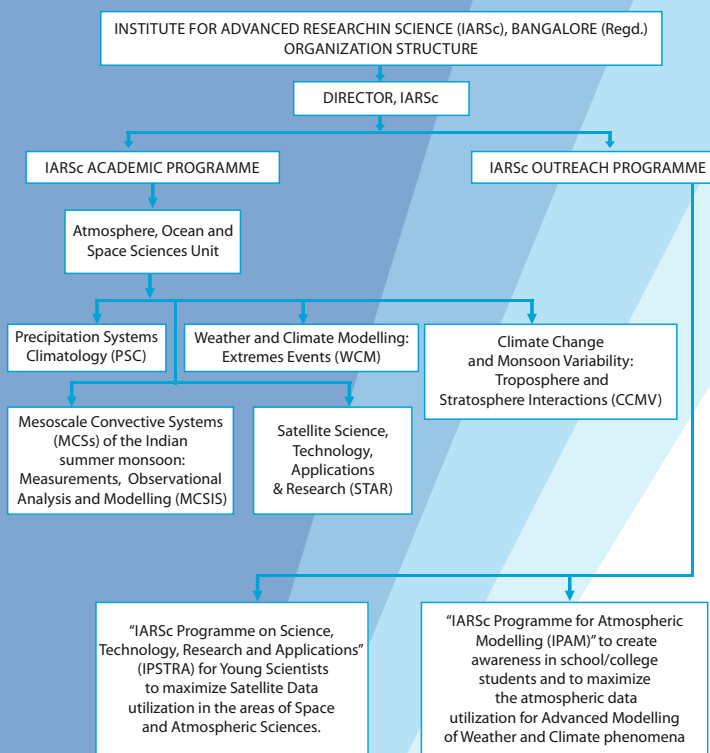
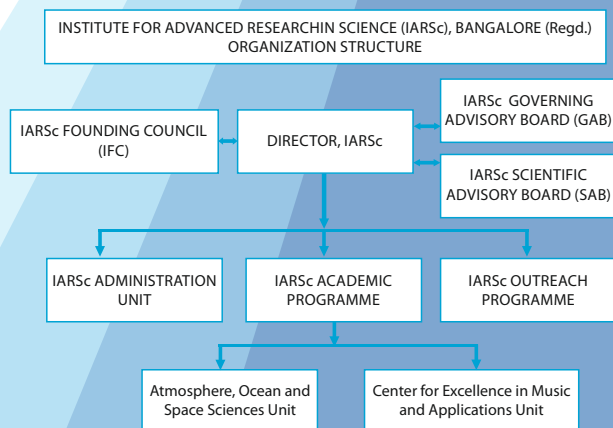
Outreach Programmes

IARSc organizes Short-term Fellowship programme, Educational programmes including setting up of field experiments, laboratories, etc in schools, colleges and institutions.

IARSc provides Advisory/Solutions in fields related to Atmospheric Sciences, Weather Prediction, Wind energy harvesting, Disaster management, Agriculture, Pollution hazards and Climate Change Mitigation.

IARSc Organization Structure

The organization structure of IARSc comprises three primary committees, namely, the IARSc Founding Council (IFC), IARSc Governing Advisory board (GAB), and IARSc Scientific Advisory Board (SAB) to oversee the functioning and the academics of the institute. Director, IARSc is responsible for the academic and outreach programmes of IARSc. At present two Research Units of IARSc have been initiated, namely, 1. Atmosphere, Ocean and Space Sciences Unit, 2.Center for Excellence in Music and Applications. The Block diagrams below describe the functioning of IARSc.



Atmosphere, Ocean and Space Sciences (AOSS) Unit

Introduction

Atmosphere, Ocean and Space Sciences (AOSS) Unit focusses on Monsoons, Clouds and Circulation systems, Understanding and Modelling Weather and Climate Extremes, Precipitation Systems Climatology, Troposphere-Stratosphere Coupling, Unmanned measurements of Atmospheric turbulence and Climate species, Atmospheric boundary layer, Satellite applications, Modelling Martian atmosphere. IARSc organizes outreach programmes, short-term fellowship programme and conducts post-graduate studies in fields related to atmosphere, Ocean and Space sciences and inter-disciplinary areas.

Key Scientific Disciplines pursued

- > Precipitation Systems Climatology (PCS)
- > Weather and Climate Modelling (WCM): Extreme Events
- > Climate Change and Monsoon Variability (CCMV): Troposphere and Stratosphere Interactions
- > Mesoscale Convective Systems of the Indian Southwest monsoon (MCSIS): Measurements, Observational Analysis and Modelling
- > Satellite Science, Technology, Applications and Research (STAR)

IARSc Science Team



AVM (Retd.) Dr. Ajith Tyagi, Member, Scientific Advisory Board, IARSc, Bangalore, India; President, Indian Meteorological Society, Member, W.M.O. Monsoon Panel



Prof A Jayaraman, Hon. Distinguished Faculty for Research, IARSc, Bangalore, India; Director, National Atmospheric Research Laboratory, Gadanki, India



Prof Kenji Nakamura, Member, Scientific Advisory Board, IARSc, Bangalore, India; Senior Professor, Dokkyo University, Japan



Dr Kusuma G Rao, Director, IARSc, Bangalore, India; Former Principal Scientist, Atmospheric Science Programme, ISRO Hq, Bangalore, India.



Prof Mohan Kumar, Member, Scientific Advisory Board, IARSc, Bangalore, India; Director, Advanced Centre for Atmospheric Radar Research, CUSAT, Cochin, India



Dr A Prabhu, Member, Founding Council, IARSc, Bangalore, India, Former Professor, Department of Aerospace Engineering, IISc, Bangalore,



Dr Vasily N Lykossov, Hon. Distinguished Faculty for Research, IARSc, Bangalore, India; Head of Laboratory and Professor, Moscow State University; Principal Scientist, Institute for Numerical Mathematics, Russian Academy of Sciences, Moscow, Russia

IARSc Collaborations

a. JAXA, Japan

b. Moscow State University, Russia