

**Registration form for Workshop on  
GEOSPATIAL AND RADAR TECHNOLOGIES FOR  
IMPROVED WEATHER MODELLING & EFFECTIVE  
DISASTER MANAGEMENT (GRADM)**

**12<sup>th</sup>-14<sup>th</sup>, June, 2024**

(Please use separate registration form for each participant)

Participant's Name : .....

Designation : .....

Organization : .....

Mailing Address : .....

City : .....

E-mail : .....

Ph No. Office : .....

Ph No. Residence: .....

Mobile No. : .....

Accommodation required in Guest House: Yes / No

Date: \_\_\_\_\_ Signature of applicant

**REGISTRATION**

Registration form should be sent to convener of Workshop by 10 May 2024 to the email [gradm2024@gmail.com](mailto:gradm2024@gmail.com) and paying Registration fee as given below in favor of "IARP Workshop" payable at State Bank of India (SBI), Kalpakkam, to the Account Number: 37279564546, IFSC: SBIN0002219.

- Delegates from research institute (Govt/Pvt): Rs. 2000/-
- Delegates from academia: Rs. 1000/-
- Students: Rs. 500/-

The registration fee includes a Workshop Kit, Souvenir, refreshments during session breaks and lunches. The fee may be paid online.

**CONTACT**

Dr.C. Venkata Srinivas (Convener, GRADM)  
Head, Environmental Assessment Division, RESG/SQRMG,  
Indira Gandhi Centre for Atomic Research,  
Kalpakkam, Tamilnadu, India.

**Participants are requested to report on 15th May, 2024 at 9 AM for registration at IGCAR.**

**IMPORTANT DATES**

Abstract Submission : 25 April 2024  
Last date for Abstract submission : 10 May 2024  
Acceptance Notification : 15 May 2024  
Last date for Registration : 25 May 2024

**ACCOMMODATION**

Accommodation can be arranged (subject to availability) on request in DAE Guest Houses / Hostels at Kalpakkam & Anupam on nominal payment basis. However, if accommodation is not available, participants are requested to make their own arrangement in nearby hotels at Mahabalipuram about 10 km from Kalpakkam.

**SCIENTIFIC EXHIBITION**

Arrangements for the scientific exhibition have been made at the venue. Interested companies can avail themselves of this facility for demonstrating their products. Companies can also send in their requests for publishing product advertisements in the souvenir.

**TRANSPORT**

Transport from the Guest House to venue of the workshop will be provided. Participants are requested to arrange their own transport to reach Guest House



**Workshop on  
GEOSPATIAL AND RADAR TECHNOLOGIES FOR  
IMPROVED WEATHER MODELLING &  
EFFECTIVE DISASTER MANAGEMENT (GRADM)**

Organized by  
**INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH  
(IGCAR) KALPAKKAM-603102**

In Association with  
**NATIONAL REMOTE SENSING CENTRE,  
BALANAGAR, HYDERABAD**

**12<sup>th</sup>-14<sup>th</sup>, June 2024**

**VIKRAM SARABHAI AUDITORIUM, HBB,  
IGCAR, TAMIL NADU 603102, INDIA**

**ABOUT IGCAR:**

Indira Gandhi Centre for Atomic Research (IGCAR) is the 2nd largest establishment of Department of Atomic Energy (DAE), with mandate of delivering Fast Breeder Reactor (FBR) and associated closed fuel cycle technologies as part of the 2<sup>nd</sup> stage of the Indian Nuclear Power Programme.



The center has established comprehensive R&D facilities covering entire spectrum of FBR technology related to Sodium handling, Reactor Engineering, Reactor Physics, Metallurgy & Materials, Chemistry of Fuels & its materials, Fuel Reprocessing, Reactor Safety, Control & Instrumentation, Radiological and Environmental Safety.

As part of radiological/chemical impact assessment and Emergency Response programme, it is involved in Atmospheric & Dispersion modelling, development of Decision Support Systems for nuclear and chemical emergencies for mitigation of inadvertent releases in the public domain.

### ABOUT NRSC

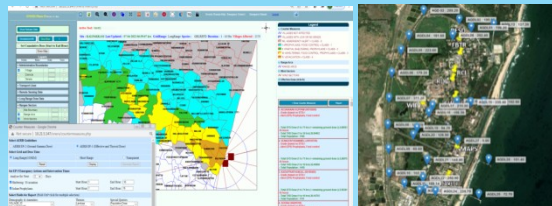
National Remote Sensing Centre (NRSC) is one of the primary centers of Indian Space Research Organization (ISRO), Debar



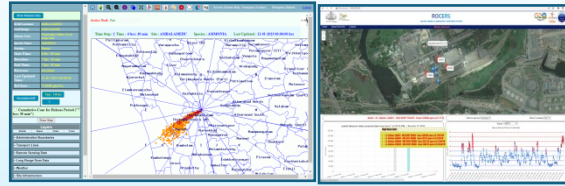
NRSC has prime responsibility of satellite data acquisition, generation of data products, dissemination to users, development of techniques for remote sensing applications including disaster management, geospatial services for good governance & development of decision support systems (DSS).

### DECISION SUPPORT SYSTEMS BY IGCAR & NRSC

Online Nuclear Emergency Response System (ONERS) is a real-time DSS for the prediction of radioactivity dispersion using atmospheric models and accident source terms for suggestion of protective actions in public domain in the event of nuclear emergencies at NPP sites.



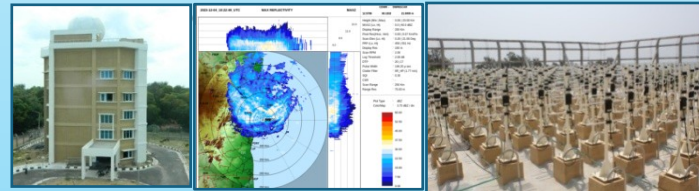
Remote Sensing Chemical Emergency Response System (ROCERS) was developed for chemical risk



assessment at industrial sites and installed at Chemical Emergency Response Centre (CHEMREC) of Factories & Boilers (FAB), Govt of Kerala.

### RADARS ESTABLISHED at IGCAR-DAE SITE, KALPAKKAM

IGCAR in collaboration with ISTRAC-ISRO has established two advanced RADAR systems namely Polarimetric C-Band Doppler Weather Radar and Mid-Tropospheric Wind Profiler. The SSPA based DWR operating at 5.6 GHz covers as range of 450 km for monitoring Cyclones and Storms around Kalpakkam site. Wind Profiler provides wind velocity components up to 12 km in the troposphere. Data from the two Radars is useful for disaster management and scientific



### ABOUT WORKSHOP

A three-day Thematic Workshop on 'Geospatial and Radar Technologies for improved weather modelling and effective Disaster Management' will be hosted by IGCAR between 15<sup>th</sup>-17<sup>th</sup> May 2024. It aims to enhance scientific/technological capabilities of disaster management using Geospatial technologies, Radar based observations and numerical models for nuclear/chemical/biological emergencies. It also focuses on Radar based atmospheric studies, modelling and weather prediction. The workshop deliberations would provide direction for future R&D & promote collaborative research among various participating institutes and universities.

### WORKSHOP TOPICS

- Remote Sensing & GIS in Disaster Management.
- Decision Support Systems for Nuclear and Chemical Emergencies & natural disasters
- Monitoring systems for nuclear & chemical emergency.
- Disaster Management Plans for technological and natural disasters.
- Weather Radars for early warning of Tropical Cyclones, Convective storms, QPE & Nowcasting.
- Data assimilation of DWRs & Wind Profilers in NWP.
- Clouds/microphysics, Convection studies using dual polarized Radar observations
- Wind Profiler radars for study of waves, wind field, turbulence, dispersion and convection
- Ocean state modelling (currents, waves and dispersion) using regional models and applications

The talks will be delivered by eminent invited speakers from various R&D, Academic institutions and Regulatory Agencies.

### TARGET AUDIENCE

Scientists / Engineers, Regulators, Industries, Academia & researchers involved in Emergency Response, Disaster management, Meteorological & Ocean modelling, forecasting, Radar applications & related research.

### ORGANIZING COMMITTEE

Dr. B. Venkatraman (Chairman), Director, IGCAR  
 Dr. S.K. Srivastav (Co-Chairman), Chief GM, (RCs)-NRSC  
 Dr. K.V.H. Durga Rao, Group Director, DMSG, NRSC  
 Dr. V.K. Anandan, Deputy Director, RDA-ISTRAC  
 Mr. S.S. RajaShekhar, Head, Applications, RRSC-NRSC  
 Mr. P. Pramod, Director, FAB, Govt of Kerala  
 Dr. Vidya Sundararajan, AD, RESG, IGCAR  
 Shri S.K.Pawar, Head DRPE, AERB, Mumbai  
 Dr. S. Balachandran, Head RMC, IMD-Chennai  
 Dr. Srinivasa Prasad, Head, NCMRWF, New Delhi  
 Dr. C.V. Srinivas(Convener) Head, EAD/SQRMG, IGCAR