

## Radio and Radar Sensing of Atmosphere (RRSA-2013)

(National level Seminar Sponsored by TEQIP-II)

Technically sponsored by IEEE GRSS  
Chapter-IEEE Kolkata Section

Venue: RCC Institute of Information Technology  
February 27, 2013

### REGISTRATION FORM

\*Name : .....

\*Affiliation : .....

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\*Highest Qualification : .....

Specialization : .....

Research Interest : .....

\*Mobile/Landline : .....

\*E-mail : .....

DD No. .... Date : .....

Bank : .....

\*\*Food Habit :  Vegetarian  Non-Vegetarian

\*Applicant's Signature:

\*Date:

The above applicant will be permitted to participate in the National level Seminar RRSA-2013.

Signature of the Principal/ Head of the Department with Seal

\*\* Tick the appropriate

\*Mandatory

### ADVISORY COMMITTEE

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## NATIONAL LEVEL SEMINAR ON "Radio and Radar Sensing of Atmosphere"

Sponsored by TEQIP-II  
Organized by Electronics and  
Communication Engineering Department

### RCC INSTITUTE OF INFORMATION TECHNOLOGY

FEBRUARY 27, 2013

TECHNICALLY SPONSORED BY IEEE GRSS  
CHAPTER-IEEE KOLKATA  
SECTION



Unit of an Autonomous Society of the Department of  
Higher Education, Government of West Bengal

A World Bank funded (TEQIP-II), Government  
Aided Self Financing Institution

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[www.rcciit.in](http://www.rcciit.in)



## RCC INSTITUTE OF INFORMATION TECHNOLOGY

RCC Institute of Information Technology (RCCIIT) is a World Bank funded (TEQIP - II) Government aided self financing Engineering College under an autonomous Society of the Dept. of Higher Education Govt. of West Bengal. It was setup in 1999 with an active support and collaboration of Ministry of Information Technology, Government of India and Department of Higher Education, Government of West Bengal.

### VISION

Institute will nurture, encourage and produce self-reliant, knowledgeable motivated professionals, capable of meaningful contribution towards the theory and practice of Information and allied Technology, and establish state-of-the art infrastructure and teaching learning system so that it can sustain its place as acclaimed center of excellence, engineering education and research.

### GOVERNANCE

Higher Education Department, Government of West Bengal takes part in the governance of the Institute. Prof. Sparshamoni Chatterjee, eminent academician and former Vice Chancellor, BESU, has been given the charge as Chairman of the Institute by the Higher Education Department, Govt. West Bengal. Prof. Sajal Dasgupta, Director of Technical Education, West Bengal was the former Chairman and presently member of the Governing Body. Other committee members include Jt. Secretary, Dept. of Higher Education, top executives of TCS and Cognizant and renowned Professors from JU, BESU and WBUT

### IEEE GRSS Chapter-IEEE Kolkata Section

The present National Workshop has Technical Sponsorship of IEEE GRSS Chapter-IEEE Kolkata Section. The IEEE GRSS Chapter in Kolkata was established on 19 September 2012. The Chapter was the second GRSS Chapter in India, the first being established in Jodhpur under IEEE Delhi Section. The Geoscience and Remote Sensing community of IEEE in India has grown significantly in India in recent years in view of large funding being available to support the research and development. The

Geoscience and Remote Sensing Society, in general, aims to advance science and technology of geosciences, remote sensing and related fields using education, conferences and other resources. The Kolkata Chapter of GRSS, in particular, will endeavour towards bringing together professionals, researchers, academicians, students of this region to exchange and coordinate their ideas. The present national Workshop will provide a platform to fulfill the aim of the Society.

### BACKGROUND AND OBJECTIVE OF SEMINAR

The City of Kolkata has a rich tradition of radio sensing of atmosphere. Professor S. K. Mitra started radio probing of atmosphere at the University of Calcutta in 1930's mainly of ionosphere, the conducting layer in the upper atmosphere which was the only means of long distance communications at that time. Very interestingly, Professor Mitra's experimental system detected the radio echoes from low heights around 30 km and that was the first radio signature of the lower atmosphere and was the forerunner of atmospheric radar which came into wide use in 1960's. The radio and radar probing has become the mainstay of atmospheric remote sensing over the years. Indian Space Research Organization (ISRO) has major programs on space based probing of tropical region using radars and radiometers. Several large ground based atmospheric radar system have been setup and under the process of being installed in India for probing middle atmosphere. The importance of radio and radar sensing of atmosphere are gaining momentum in India as supported by several Government agencies. In view of the present scenario, this National Workshop has been planned. The main focus of the workshop is to present the recent trend in the area and current research interest in Universities and Government laboratories and institutions.

### REGISTRATION GUIDELINE

The seminar is mainly aimed for faculty members/ researchers of all Universities and Engineering colleges across India. However a few students (BE/ B Tech/ ME/ MTech/ MCA) will be allowed to register

on first come priority basis.

**Registration fees** for faculty members/ researchers from other institute will be: **Rs. 150. Student registration fees will be Rs. 100.**

Duly filled-in Registration form (original/ photocopy/ downloaded from college portal, TEQIP Link) along with a demand draft drawn in favour of **"RCC Institute of Information Technology-TEQIP-II"** payable at Kolkata may be sent by post to the following address with *"Application for RRSA-2013 (TEQIP II) Seminar"* super scribed on the envelope.

**Dr. Tirtha Sankar Das,**  
Officer-in-charge  
RCC Institute of Information Technology,  
Canal South Road, Beliaghata,  
Kolkata - 700015,  
West Bengal, India

**Deadline for the Registration is 25<sup>th</sup> February 2013.** A scanned copy of the draft and filled in registration form may be e-mailed to any of the departmental contacts for quick processing. **No spot registration will be entertained.**

### Seminar Itinerary

Duration	Activity
10:00 - 11:00	Registration and Reception of Participants & Delegates
11:00 - 11:10	Inauguration
11:10 - 12:40	Key-note Address by Prof. Animesh Maitra University of Calcutta
12:40 - 01:00	Tea Break
01:00 - 02:30	Session by Dr. Swapan Kumar Sarkar, Emeritus Scientist, RASD, National Physical Laboratory, New Delhi
02:30 - 03:30	Lunch Break
03:30 - 05:00	Mr. Devendra Pradhan, Dy. Director Regional Met Centre, Kolkata
05:00 - 05:10	Vote of thanks and Valedictory
05:10 - 05:40	High Tea