

On celebration of 170 years of
Civil Engineering education in INDIA
AN INTERNATIONAL CONFERENCE
ON
GEOMATICS IN CIVIL ENGINEERING
[ICGCE-2018]

April 05-06, 2018

REGISTRATION FORM

Name: _____

Designation: _____

University/Organization: _____

Address: _____

Telephone (Landline): _____ (Mobile): _____

Email ID: _____

Accompanying person(s) details:

Name(s) _____

DD No: _____ Dated: _____

Amount Details (in Rs.) _____

Accommodation required Yes/ No
(Please tick whichever applicable)

Send your registration form duly filled to Organising Secretary.

ACCOMMODATION

Delegates will be required to make their own arrangement for stay. However, limited accommodation (on payment) may be made available in the IITR guest houses, on first-cum first-serve basis of request through registration.

REGISTRATION FEES

Delegates from INDIA
Regular: Rs. 3500/-
Student: Rs. 1500/-
Delegates from outside INDIA
Regular: US\$ 250
Student: US\$ 100

Registration fee includes Registration Kit, Working Lunch, Conference Dinner, Welcome, Valedictory & session tea. Registration fee may be paid in cash. Otherwise, through cheque/demand draft or online to

Name of account: Conference, Seminar & Symposium,

IIT Roorkee

Account Number : 33136732957
Name of Bank : STATE BANK OF INDIA
Branch : IIT ROORKEE - 247667
BRANCH CODE : 1069
IFSC CODE : SBIN0001069
MICR code : 247002094
SWIFT CODE : SBININBB559

TENTATIVE PROGRAM

Thursday, April 05, 2018

Registration and Welcome Tea : 08:00 Hrs
Inauguration : 09:30 Hrs
Key Note speech : 10:15 Hrs
Session Tea : 11:00
Technical session - I : 11:30
Lunch : 13:00 Hrs
Technical session - II : 14:30 Hrs
Session Tea : 16:00 Hrs
Technical session - III : 16:30 Hrs
Cultural Program : 19:00 Hrs
Conference Dinner : 20:00 hrs

Friday, April 06, 2018

Welcome Tea : 08:00 Hrs
Technical session – IV : 09:30 Hrs.
Session Tea : 11:00 Hrs
Technical session – V : 11:30
Lunch : 13:00 Hrs
Technical session – VI : 14:30 Hrs
Valedictory : 16:00 Hrs

POST-CONFERENCE TOURS

Post-conference tours to places of interests around such as Haridwar, Rishikesh, Delhi, Agra, Jaipur and others may be arranged after the event for interested delegates on request. However, travel, boarding, lodging expenses are to be borne by the delegates joining the tours.

ORGANISING TEAM

Patron :

Prof. Ajit Kumar Chaturvedi,
Director IIT Roorkee

Chairman:

Prof. C.S.P. Ojha,
Head, Civil Engineering Department IIT Roorkee

Organizing Secretary:

Dr. Jayanta Kumar Ghosh,
Coordinator, Geomatics Engineering Group

Co-Organizing Secretary:

Prof. Sanjay Kumar Ghosh.

Members:

Dr. Rahul Dev Garg and
Prof. (visiting) Om Prakash Dubey.

ADDRESS FOR CORRESPONDENCE

Dr. Jayanta Kumar Ghosh,
Organising Secretary & Coordinator,
Geomatics Engineering Group
Civil Engineering Department
Indian Institute of Technology Roorkee,
Roorkee
247667 Uttarakhand INDIA
Phone : 091-1332-285429(O)/9411111721
Fax : 091-1332-273560,275568
e-mail : icgce-2018@iitr.ac.in
icgce_2018@yahoo.com
Website : www.icgce2018.in

FIRST CIRCULAR

On celebration of 170 years of
Civil Engineering education in INDIA
AN INTERNATIONAL CONFERENCE
ON
**GEOMATICS IN CIVIL
ENGINEERING**
[ICGCE-2018]

April 05-06, 2018



Organised by:



GEOMATICS ENGINEERING GROUP
Civil Engineering Department
Indian Institute of Technology Roorkee
Roorkee 247667 (Uttarakhand) INDIA



BACKGROUND

The Civil Engineering Department of IIT Roorkee was established in 1847 as Roorkee College of Engineering, the first graduate engineering college in whole of British empire at that time. This year department is celebrating its 170 years of Civil Engineering education in India in conjunction with 60 years of post-graduate Geomatics Engineering education. As a part of this august celebration, Geomatics Engineering group of Civil Engineering Department, IIT Roorkee is organizing an international conference to highlight the role of Geomatics in Civil Engineering.

Over the years, Civil Engineering has grown tremendously. It requires variety of data and tools to solve the wide range of technical and societal problems. Geomatics Engineering, using geo-spatial information, engineering principles and relational data structures involving measurement sciences, is capable of providing exciting and new vistas of solutions for pure and applied problems. It involves a wide range of technology/ tools such as Total stations, GNSS, UAS, Laser Technology, Spectro-radiometry, Radar-grametry, GIS etc. It makes use ground based, air as well as space-borne (visible, NIR, FIR, TIR, microwave data in panchromatic, multi-spectral, hyperspectral, ultra-spectral bands) data. Out of the growth and development in geomatics engineering, many ingenious data and methods are being evolved which may be implemented in different domains of Civil engineering. It is envisaged that a renaissance in Civil Engineering lies in application of the resurgent Geomatics engineering. So, as a pioneering effort, the theme of the conference is being chosen as "GEOMATICS IN CIVIL ENGINEERING".

The aim of this conference is to provide a platform to researchers and field engineers working on application of Geomatics engineering (surveying, photogrammetry, remote sensing, GIS, GPS) in civil engineering (structural engineering, geotechnical engineering, hydraulics & water resources engineering, environmental engineering, transportation engineering) and to flourish the dimensions of the theme of the conference.

CONFERENCE THEMES

Theme I Geomatics in Structural engineering
Structural Deformation; Structural Health Monitoring - vibration, Image analyses; Non-destructive testing - Concepts, Analysis & Data from RS & DIP. Construction - Staking out, Monitoring status - RT process/ progress; Location and dimension - measurement & verification; Inventory of resources for construction materials (Boulders, Quarry rocks, Sand, Limestone etc.), Laser monitoring of structure etc and any other novel applications.

Theme II Geomatics in Geotechnical engineering
Foundation settlement; Understudy - GPR; Terrain Mapping – DTM/DEM; Landform study; Soil classes; Soil Moisture content; Landslide Study etc. and any other novel applications.

Theme III Applications of Geomatics Engineering in Hydraulics & Water resources engineering
Hydraulic Structure – site investigation, planning, construction, monitoring, management etc., Basin & Inter basin- reconnaissance, characterization, flow & reservoir study, siltation, irrigation, water harvesting, conservation measures etc; Flood study – forecast, monitoring, management, mapping and damage assessment etc. Snow study - mass balance, glacier mapping, glacial lake outbursts etc; Hydrosphere for sustainable developments; Climate Change - impact on stream flow and sediment yield and many other areas and any other novel application.

Theme IV Applications of Geomatics Engineering in Environmental engineering
Solid waste management; Water/ Air Quality monitoring, assessment etc.; rural/ urban environment problems etc.; Noise pollution. Remote Sensing and Synergic Analysis on Atmospheric Environment, Environmental study and any other novel applications

Theme V Applications of Geomatics Engineering in Transportation engineering
Planning, functional design, operation and management of facilities for any mode of transportation; Transportation Network Analysis; Optimal path analysis; Deficiency analysis of different infrastructures; Intelligent Transportation Systems (APTS, ATMS, ATIS, ETTM, CVO etc) etc and any other novel applications.

Theme VI Miscellaneous
Geomatics Data; Big geo-data analysis; applications of Geomatics Engineering for natural resource study for civil engineering projects; deficiency

analysis of different civil infrastructures; societal benefits like evacuation and Disaster Assessment, Monitoring and Management etc and any other novel applications.

CALL FOR CONTRIBUTIONS

All honorable authors are encouraged to contribute to and help shape the conference through contributions of abstracts, papers and e-posters that address themes and topics of the conference, including figures, tables and references of novel research materials. High quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in any one /combined areas of the themes of the conference are cordially invited for consideration also for key note presentation at the conference.

IMPORTANT DATES

Last Date for Submission of abstract : December 31, 2017
Last Date for Acceptance of abstract : January 15, 2018
Last Date for Submission of full paper : January 31, 2018
Last Date for Acceptance of full paper : February 15, 2018
Last Date for Acceptance of full paper in conference format : March 01, 2018
Dates of the Conference : April 05-06, 2018

ADVISORY COMMITTEE

Dr. A. S. Kiran Kumar,
Secretary, DOS & Chairman, ISRO Bangalore
Dr. Bhoop Singh, Head, NRDMS, DST New Delhi
Major General Girish Kumar,
Surveyor General, SOI Dehradun
Prof. (Dr) Marco Painho,
Universidade Nova de Lisboa, Portugal.
Prof. (Dr.) Bijendra Pateriya, Director, PRSC Ludhiana
Prof. (Dr.) Satish Chandra, Director CRRRI New Delhi
Prof. (Dr.) Onkar Dikshit, IIT Kanpur
Dr. O. P. Mishra, MoE, New Delhi
Prof. (Dr.) B. Nagarajan, IIT Kanpur
Dr. Irineu da Silva, University of São Paulo, Brazil
Prof. B. Krishna Mohan, Head, CRSE, IIT Bombay
Dr. Chandan Ghosh, NRDMS, New Delhi
Prof. (Dr.) Subashisa Dutta, HCED, IIT Guwahati
Prof. (Dr.) Sudip Roy, HCED, IEST Shibpur
Dr. Korak Saha, NOAA, USA
Dr. Narayan Chandra Ghosh, NIH Roorkee
Prof. (Dr.) M. Anji Reddy, JNTU Hyderabad
Dr. Anchal Mittal, CBRI Roorkee
Prof. Partha Sarathi Choudhury, NIT Silchar
Dr. Ramadurai Gitakrishnan, IIT Madras
Dr. Devanjan Bhattacharya, Portugal

CONFERENCE SPONSOR AND EXHIBITOR OPPORTUNITIES

The Conference offers the opportunity to become a conference sponsor and/or exhibitor. To participate as a sponsor or exhibitor and all other details may contact organizing secretary.

CONFERENCE PROCEEDINGS

All submitted conference papers will be blind peer reviewed by competent reviewers. The conference proceedings will be published in electronic media through renowned publisher and get indexed in database. The conference abstracts and proceedings, certificate of presentation will be distributed to participants at the conference registration desk.

TUTORIALS

Interested faculty members/ researcher/ field practitioner may propose to held half day (3 Hours) tutorial classes for delegates on any broad topic relevant to themes of conference. Tutorials may be organized on the day preceding or succeeding the event.

TRAVEL

Roorkee is well connected to Delhi by rail and road. It is situated on NH 58 and 73 and is on Amritsar-Howrah main rail route. Some trains which are convenient for travelling between Delhi and Roorkee are New Delhi-Dehradun-New Delhi Shatabdi Express and Dehradun-New Delhi-Dehradun Janshabdi Express. The nearest airport (53 Km) is located at Jollygrant, Dehradun. However, IGI New Delhi is the preferred airport. NH 58 from New Delhi to the higher reaches of the Himalayas passes via Roorkee. Roorkee is, therefore, well connected to all the major cities in the region by road. There are frequent bus services to this place from the Maharana Pratap Inter State Bus Terminal (Kashmere Gate) Delhi.

Delegates will be required to make their own arrangement for travel. However, arrangement for travel by taxi from airports can be made by the organizer on payment basis against prior request to organizer.