



FEDERATION OF Indian Geosciences Associations

2nd Triennial Congress

on

Geosciences for sustainable development goals

13-16 October 2019

Venue

**CSIR- National Geophysical Research Institute
Hyderabad**

Jointly organized by

Association of Exploration Geophysicists,
Indian Geophysical Union &
CSIR-National Geophysical Research Institute

*in conjunction with the Annual Conventions of
IGU, GSI, AEG, AHI, PSI & ISES*



Objective of FIGA

Over the years the earth system science has become a truly interdisciplinary field of science with an increasing realization for a common platform and to exchange and interlace the views and activities of the earth sciences communities. This is expected to bring in synergy across the earth science community and the scientific programmes of national and international relevance jointly taken up by the scientific associations.

It is time that the contemporary technologies that can address the challenges associated with geosciences and arrive at effective solutions to the welfare and sustained growth of a nation. In this context, as an effective approach to bring in all the associations dealing with various facets of geosciences together and put in a concerted effort in suggesting future activities at national and international levels, Federation of Indian Geosciences Associations (FIGA) has come into being with nine Geosciences Associations as Members and four institutions/ Ministries as patron members in 2014. This endeavour is aimed to bring in the Geosciences Associations/Societies/ Unions and Institutions on to a single platform to address a common goal fostering the developments in Geosciences and benefitting the Society and suggesting future activities at national and international levels. The 1st Triennial Congress of FIGA jointly participated by IGU, GSI, AEG, PSI, AHI and was held at Indian School of Mines, Dhanbad in November 2016.

The 2nd Triennial Congress of FIGA will be held in Hyderabad and will be jointly organised by AEG, IGU & NGRI.

Focal Theme

Geosciences for Sustainable Development Goals is the congress focal theme.

The Technological and socioeconomic performances have been facing multifaceted challenges throughout the globe. Change in natural systems and associated processes accelerated by anthropogenic interventions, has been inducing unforeseen complexities in the process of development and sustainability. The need and scope for utility of geosciences knowledge is pervading almost all fields of life on the Earth apart from the management of natural resources and a healthy environment. The multiple scale interactions of ecosystems with the process-response characteristics of both living and non living resources and systems are observed to control the productivity and sustainability. The role of Geosciences is getting more and more prominent not only in Earth science disciplines, but also in Life Sciences and Environmental sciences demanding scientific strategies towards sustainability.

It is time that understanding Geosciences with a synergic approach and transforming the elements of education and use of geosciences towards sustainability of human life and the earth resources with a focus on water, energy, climate change, natural hazards etc. is inevitable. Earth Sciences, being a historical and interpretative science can educate the society on interactions in coupled human – environmental systems based on the recognition of various manifestations and various process-response manifestations at different spatial and temporal scales. In addition this discipline can provide meaningful inputs as it comprehends and embeds on quantifiable scientific uncertainty and extreme events. Despite many such advantages with built in geologic reasoning for sustainable science geoscientists have not been active participants in the development and adoption of this emerging science. The economic transformations and the developments in science and technology in India demands a multi disciplinary approach which can be geoscience centre.

The Sustainable Development Goals (SDGs) adopted by the United Nations aspiringly aim to end global poverty, fight injustice and inequality, and ensure environmental sustainability by 2030. Various geosciences aspects like climate change, energy resources, agro geoscience, engineering geology, geohazards, geoheritage, water resources, hydrogeology and contaminant geology, mineral and rock resources significantly contribute to the realization of all most all the agreed SDGs. Improved engagement of geosciences community and use of geoscientific knowledge base for national and international development will play a major role in realizing the goals.

Symposia Topics

Solid Earth and Geodynamics

Marine Geo-Sciences and Ocean System

Coupling between earth system process and interaction with human activities

Mineral Resources

Advances in Hydrocarbon and alternate Energy Resources

Understanding and combating natural hazards

Water Resources: Sustained Management

Young Geoscientist Enclave

The Venue and Dates

The 2nd Triennial Congress of FIGA will be held at CSIR-NGRI and will be jointly organized by Association of Exploration of Geophysicists, Indian Geophysical Union and National Geophysical Research Institute during 13 – 16 October, 2019.

CSIR-NGRI the host



The CSIR- National Geophysical Research Institute (NGRI), a constituent research laboratory of the Council of Scientific and Industrial Research (CSIR) was established in 1961 with the mission to carry out research in multidisciplinary areas of the highly complex structure and processes of the Earth system and its extensively interlinked subsystems.

The research activities fall broadly under three themes: **Geodynamics**, which revolve round investigating and modelling fundamental aspects of the Earth system and processes, **Earthquake Hazards**, which encompass features on the surface and subsurface of crust which may potentially endanger lives and properties through catastrophes like earthquakes and landslides as well as deterioration in pollution levels of groundwater and soil, changes in climatic conditions and associated environmental issues. The theme **Natural Resources** comprise of implementation of techniques to identify primary geo-resources, which are the pillars of human civilization and fount of economic growth like groundwater, hydrocarbons as well as alternate energy sources and minerals.

The Institute is structured into seven major R&D Groups and twenty one Activities, which include expertise in a variety of geophysical, geochemical, geological techniques like Seismology, Magnetotellurics, GPS, Paleo-seismology, Structural geology, Controlled source seismics, Gravity and Magnetics, Geochemistry, Geochronology, Paleomagnetism, Planetary geology, Geomagnetism, Airborne geophysics, Shallow subsurface geophysics and Rock Mechanics, Hydrochemistry, Paleo-environmental studies and Modelling and simulation of Earth processes. With scientists, technical staff, project researchers and PhD students close to 400 along with state-of-art computational and laboratory facilities and nationwide network of

observation sites, NGRI in partnership with sister agencies, public sector and private industries is committed to address the challenges of the near future and bring the benefits of science to impact societal priorities.

In and around the city of Hyderabad

Hyderabad is the capital of southern India's Telangana state. A major center for the technology industry, it's home to many upscale restaurants and shops. Its historic sites include Golconda Fort, a former diamond-trading center that was once the Qutb Shahi dynastic capital. The Charminar, a 16th-century mosque whose 4 arches support towering minarets, is an old city landmark near the long-standing Laad Bazaar.

On the Musi River's south bank, the Salar Jung Museum has an enormous, wide-ranging collection of global art covering several millennia. Chowmahalla Palace – built by the Nizams, Hyderabad's princely rulers from the 18th to mid-20th centuries – is an opulent complex featuring courtyards and fountains. North of the river, the contemporary, white-marble Hindu temple Birla Mandir occupies a hilltop with views over Hussain Sagar Lake, known for its 18m Buddha statue. On the outskirts, Ramoji Film City is a sprawling movie-production centre featuring studio tours and a theme park.

Hyderabad is also known as science city for the fact that many national scientific and defence research institutions are hosted by the city. Prominent earth science institutions like National Geophysical Research Institution, Geological Survey of India, Atomic Minerals division, Survey of India, National Remote Sensing Centre etc. are located in Hyderabad.

Registration

All delegates must register in advance. On line registration is encouraged. However one can fill up the enclosed Registration form and send it by mail to the Organising Secretary, The 2nd Triennial Congress of FIGA, CSIR-NGRI Campus, Uppal Road, Hyderabad-500 007 along with delegate registration fee as detailed below:

General:	Rs.8,000/-
Teachers:	Rs. 5000/-
Research Scholars(Ph.D students):	Rs. 3500/-
Students(B.E., M.Sc & M.Tech students):	Rs. 2000/-
Spouse / Accompanying Persons:	Rs.1,500/-

The registration fee is towards participation in the 2nd Triennial Congress of FIGA and the Annual Conventions of respective associations viz., AEG, IGU, AHI, PSI & ISES and AGM of GSI.

The registration fee includes seminar material, abstract volume, three lunches, one dinners and snacks during the Convention. Accompanying person(s) will not be entitled for the Convention material and the abstract volume.

Abstract Volume

The 2nd Triennial Congress of FIGA and the 41st Annual Convention of AEG, 56th Annual Convention of IGU, 37th Annual Convention of AHI and the AGM of GSI and the Annual Conventions of PSI, ISES and AGM of GSI will bring out a volume containing abstracts, messages from luminaries, geoscientific work of eminent scientists/researchers, and advertisements from Sponsors (Institutes, Industries and Instrument Manufacturers etc).

The tariffs for publication of Advertisements are listed below:

Back Cover (Color)	:	<input type="checkbox"/> 75,000/-
Inside front Cover (Color)	:	<input type="checkbox"/> 50,000/-
Inside back Cover (Color)	:	<input type="checkbox"/> 40,000/-
Inside Full Page (Color)	:	<input type="checkbox"/> 30,000/-
Inside Full Page (BW)	:	<input type="checkbox"/> 20,000/-

Abstracts of about 300-500 words should be submitted online. Under extraordinary conditions the abstracts submitted through e-mail may be considered. Online submission of abstracts will be open shortly.

Mode of Payment

The payment may be made by Money Transfer through NEFT/RTGS
Convener, 2nd Triennial Congress of FIGA
Crossed demand draft, drawn on any Nationalised /
Scheduled Bank in favour of Convener

Name of the Bank	:	State Bank of India
Type of Account	:	Current
IFSC Code	:	SBIN0020087
Account No.	:	62353771877
Name of the Account	:	FEDERATION OF INDIAN GEOSCIENCES
MICR No.	:	500002318
Branch Name	:	SBI Branch, Habsiguda, Secunderabad, Uppal Road, Ranga Reddy District- 500 007

Accommodation

Limited accommodation is available in NGRI guest house. However, a number of Hotels in Hyderabad and Secunderabad region well connected with metro are available within a range of Rs.2500/- to Rs.8000/- Detailed tariff of hotels will be provided soon.

Exhibition/Stalls

An exhibition of geosciences and allied instruments and services will be organized during the Annual Convention. The exhibitor will have scope to make video scrolling not exceeding 2 to 3 minutes during lunch hours.

The Exhibition stall (9 X 9 ft) fee: Rs.75,000/-

FIGA Executive Committee

President

Prof. Shailesh Nayak, Director, NIAS, Bengaluru

President Elect

Dr. V P Dimri, and Former Director, CSIR-NGRI, Hyderabad

Vice President

Prof. M P Singh, Paleontological Society of India (PSI), Lucknow

Secretary General

Prof. P Rajendra Prasad, AHI, Andhra University, Visakhapatnam

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Dr. V M Tiwari, Director, CSIR-NGRI, Hyderabad

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Dr. A K Chaturvedi, Secretary of AEG, Hyderabad

Dr. R S Singh, Secretary, Paleontological Society of India, Lucknow

Dr. B K Rastogi, President, ISES, Gandhinagar

Dr. Hari Lal, ED & Head of Institute, KDMIPE, ONGC

Dr. Rajeev Tandon, Vice-President, SPG, ONGC, Dehradun

Member Associations

Indian Geophysical Union (IGU), CSIR-NGRI Campus, Hyderabad

Geological Society of India (GSI), Bangalore

Association of Exploration Geophysicists (AEG), Hyderabad

Society of Petroleum Geophysicists (SPG), Dehradun

Association of Hydrologists of India (AHI), Visakhapatnam

Paleontological Society of India (PSI), Lucknow

The Paleobotanical Society (TPS)

Indian Society of Earthquake Sciences (ISES), Gandhinagar

Patron Members

Ministry of Earth Sciences, New Delhi

ESSO-National Centre for Earth Sciences Studies, Thiruvananthapuram

Atomic Minerals Directorate, Hyderabad

Indian Institute of Geomagnetism, Navi Mumbai

KDMIPE, Oil & Natural Gas Corporation Limited, Dehradun

CSIR-National Geophysical Research Institute, Hyderabad

REGISTRATION FORM

2nd Triennial Congress of FIGA in conjunction with 41st Annual Convention of AEG, 56th Annual Convention of IGU, 37th Annual Convention of AHL, Annual Conventions of PSI and ISES and the AGM of GSI on Geosciences for sustainable development goals

(Kindly fill up the form in capital letters and use separate form for each participant)

1. Name (Prof/Dr/Mr/Mrs./Ms.)
2. Age:
3. Designation/Affiliation:
4. Address for correspondence:
5. Telephone & Mobile No:
6. Email:
7. Fax No:
8. Title of Abstract (if submitted):
9. Preference of Presentation (please tick) [.....] Oral [.....] Poster

Please tick suitable topic only

- [.....] Solid Earth and Geodynamics
[.....] Marine Geo-Sciences and Ocean System
[.....] Coupling between earth system process and interaction with human activities
[.....] Mineral Resources
[.....] Advances in Hydrocarbon and alternate Energy Resources
[.....] Understanding and combating natural hazards
[.....] Water Resources: Sustained Management
[.....] Young Geoscientist enclave – Selected papers from Posters with innovative ideas

10. Mode of Payment for Registration:
11. Accommodation required: Yes No
12. Do you belong to any one or more of these associations ? if Yes Pl. select
IGU [.....] AEG [.....] AHL [.....] FIGA [.....]
SPG [.....] GSI [.....] PSI [.....] ISES [.....]

Place:

Date:

Signature

All correspondence to:

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