

National Conference

on

Challenges in Earth System Science for Global Sustainability (CESS-GS)

&

1st Alumni Meet

15 – 17 January 2020

Registration Form

Name:

Organisation:

Interest Area(s):

Submitting Paper:

(Oral/Poster/Participation only)

Contact address:

E-mail id:

Telephone (O):

Mobile:

Registration Fee details:

About IIT Kharagpur

It is the first technical institution in India that established in the year 1952 by the first Prime Minister of India, Honourable Pandit Jawaharlal Nehru at the Hijli Detention Camp in Midnapore district of West Bengal. Presently offering B.Tech., M.Sc., M.Tech., M.B.A., L.L.B. and Ph.D. degrees in different branches of Science and engineering. The Institute is a self-contained township laid out over 2100 acres lush

green, serene campus free from urban noise and pollution. There are about 700 faculty, 1000 non-teaching employees and 16000 students in the campus.

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Announcement

Organized by



Centre for Oceans, Rivers, Atmosphere and Land
Sciences (CORAL)

Indian Institute of Technology Kharagpur

Introduction

Tremendous progress has been made by the researchers in understanding the functioning of the Earth System and, in particular, the impact of human actions. Although this knowledge can inform management of specific features of our world in transition but societies need knowledge that will allow them to simultaneously reduce global environmental risks while also meeting economic development goals. This need for food security, water, improved health and human security, and enhanced energy security for eradicating extreme poverty and hunger and ensuring ecosystem integrity. Answering these questions will require reorientation toward new research that better allows science and society to address the needs of decision-makers and citizens at global, regional, national, and local scales.

Scientists have twofold challenges: (i) develop strategies to respond to ongoing global change while meeting development goals, and (ii) deepen knowledge of the functioning of the Earth System. Promoting sustainable development requires research on a wide range of social, economic, cultural, institutional and environmental issues. Sustainable development is no longer possible without addressing interactions with global change dynamics and deep understanding the components of the earth systems (Atmosphere, Oceans, Biosphere, Cryosphere and Lithosphere). Therefore, the main purpose of this conference towards the important dimension of the larger sustainability agenda is to focus on the latest

understanding and development of the Earth System Science.

Themes

Atmospheric Process: *Urban Boundary Layers, Model Physics, Monsoon Processes, Air Pollution modelling and Impact on weather and climate, Western disturbances, Atmospheric Rivers*

Oceanic Processes: *Air-Sea interaction, Mixed Layer Processes, Barrier Layer, Coastal and estuarine process, Waves, Tides, Eddy movement, carbon budget, Bio-geo-chemical cycling, Remote Sensing of Oceans. Shifting of Fishing zone, Sea Level Change and Impact. Ocean Acoustics for Naval Applications.*

Modelling of the Earth System Components: *Recent advances of Atmospheric modelling, Ocean Modelling, River and Tide impact, Terrestrial dynamics and modelling, Cryosphere changes and modelling, Biodiversity. Application of Remote Sensing.*

Cyclone and Thunderstorms: *Track and Intensity of cyclone. Thunderstorms, its impact and recent changes.*

Extreme Events: *Flash flood events, heat waves, Storm Surges, Tsunami, Land Slides, and forest fires.*

Climate Change and Sustainable Development: *Climate Change and Impact on water, food, energy and health. Sustainable development goal.*

Registration Fee (INR)

Regular registration:	Rs. 5000/-
Students:	Rs. 2000/-
Exhibition Stalls /booth:	Rs. 20,000/-

Participants are required to prepare a DD of the registration fee in favour of “**CEP-STC, IIT Kharagpur**”, payable at Kharagpur, from a nationalized bank. Participants are requested to submit a 2-page abstract, 12 point double space that will be reviewed by a committee of experts, and paper for oral and poster presentations will be selected accordingly.

ACCOMMODATION/TRAVEL

All participants are expected to meet their TA/DA from own sources. Subsidized food and accommodation can be provided to the participants at their own cost in the guest houses of IIT.

IMPORTANT DATES

Abstract submission: till *29 November 2019*

Abstract acceptance: *01 - 15 December 2019*

Registration Open: *10 - 30 December 2019*