Sources of Planet Energy, Environmental & Disaster Science: Impacts of Glacier Melting & Climate Change (SPEEDS-2022-23)

(March 26, 2023)
Organized by

The Institution of Engineers (India)
U.P. State Centre, Lucknow-226018
Under the Aegis of ENDB
in association with

SCHOOL OF MANAGEMENT SCIENCES
Lucknow
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Prof. (Dr.) Jayotsana Singh - Director, Centre for Renewable Energy, Lucknow University, Lucknow
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One Day National Seminar on
Sources of Planet Energy, Environmental & Disaster Science: Impacts of Glacier Melting & Climate Change (SPEEDS-2022-23)

Venue:
The Institution of Engineers (India)
Uttar Pradesh State Centre, Engineers Bhawan River Bank Colony, Lucknow-226018

Information Brochure

Import Important Dates
Last date of Receipt of Abstract : 15th March 2023
Acceptance of Abstract : 16th March 2023
Submission of Final Paper : 20th March 2023
Seminar (SPEEDS-2022-23) : March 26, 2023
ABOUT THE INSTITUTE

The Institution of Engineers (India) (IEL) is the largest multidisciplinary professional body of engineers, established in 1920 with its headquarters located in Kolkata and incorporated under Royal Charter on 9th September, 1935 by the then His Majesty of King George V. The Royal Charter endowed the institution with the responsibility to promote the general advancement of engineering amongst its members and persons attached to the institution. The Institution of Engineers (India) is administered by a National Council with the President as its Head. The Institution has been serving the engineering fraternity for over a century in its national and international experience through 125 Centres spread all over India, 6 overseas Chapters, 6 Fores and an Organ named Engineering Staff College of India (ESCI), Hyderabad. The Institution encompasses 15 (fifteen) engineering disciplines with a Corporate membership of over 2 lakhs. IIE has been recognized as Scientific and Industrial Research Organization (SIRO) by the Ministry of Science & Technology, Govt. of India and besides conducting its own research, provides Graft-in-Aid to UG/P.G. PhD students of Engineering Institutes & Universities. The Institution of Engineers (India) is the first professional body to represent India in several International Bodies, such as the World Mining Congress (WMC), the World Federation of Engineering Organizations (WFOE), the Commonwealth Engineers’ Council (CEC), the Federation Internationale de l’Education Technique (FISTECA), also has bilateral agreements with a number of professional societies across the globe. IIE holds the Professional Engineers (IIE) Register for India under the global International Professional Engineers Alliance (IPEA). The Institution also awards the Professional Engineers (PE) Certification.

SEMINAR: AN OVERVIEW

Since the early 1990s, many glaciers around the world have been rapidly melting. Human activities are at the root of this phenomenon. Specifically, since the industrial revolution, carbon dioxide and other greenhouse gas emissions have raised temperatures, even higher in the poles, and as a result, glaciers are rapidly melting, calving off into the sea and retreating on land. Even if we significantly curb emissions in the coming decades, more than a third of the world’s remaining glaciers will melt before the year 2100.

Melting glaciers add to rising sea levels, which in turn increases coastal erosion and elevates storm surge warming air and ocean temperatures create more frequent and intense coastal storms like hurricanes and typhoons. Specifically, the Greenland and Antarctic ice sheets are the largest contributors of global sea level rise. Right now, the Greenland ice sheet is disappearing four times faster than in 2003 and already contributes 20% of current sea level rise. If emissions continue to rise, the current rate of melting on the Greenland Ice Sheet is expected to double by the end of the century. Alarmingly, if all the ice on Greenland melted, it would raise global sea levels by 20 feet.

Today, the Arctic is warming twice as fast as anywhere on the earth, and the sea ice there is declining by more than 10% every 10 years. As this ice melts, darker patches of ocean start to emerge, eliminating the effect that previously cooled the poles, creating warmer air temperatures and in turn disrupting normal patterns of ocean circulation. The glacial melt we are witnessing today in Arctic and Greenland is changing the circulation of the Atlantic Ocean and has been linked to collapse of fisheries in the Gulf of Maine and more destructive storms and hurricanes around the world.

What happens in these places has consequences across the entire globe. As sea ice and glacier melt and oceans warm, ocean currents will continue to disrupt weather patterns worldwide. Industries that thrive on vibrant fisheries will be affected as warmer waters change where and when fish spawn. Coastal communities will continue to face billion-dollar disaster recovery bills as flooding becomes more frequent and storms become more intense. People are not the only ones impacted.

Theme - Sources of Planet Energy, Environmental & Disaster Science: Impact of Glacier Melting & Climate Change

Sub Themes:
- Glacier Melting on Arctic Sea
- Glacier Melting on Antarctica
- Glacier Melting on Himalayas
- Global Warming
- Climate Change
- Disaster Management
- Waste Management
- Renewable Energy
- Others (related to climate and disaster)

CALL FOR PAPERS

Technical papers on the above Sub Themes and related topics are invited for presentation in the different technical sessions of the conference. The authors should send two copies of extended abstract in IEEE template (not exceeding two A-4 size pages typed in 12pt. Times Roman font with double spacing) of their original works latest by March 15, 2023. Authors are requested to send a copyright form duly signed by author(s), along with the abstract on upec@ielindia.org.