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2nd GEAST Conference on

ENERGY, ENVIRONMENT & CLIMATE CHANGE (EECC)

(Virtual Mode)

10th September' 2022
(10AM-4PM)

Organized By

Council of Industrial Innovation and Research (CIIR), Noida, India

In Collaboration with

Teerthanker Mahaveer University, Moradabad, India

2nd Global Engineering, Arts, Sciences & Technology (GEAST) conference on Energy, Envrionment and Climate Change (EECC-2022) will be held on 5th August 2022 (virtual/remote mode). EECC-2022 international conference aims to share and discuss theoretical and practical knowledge in a scientific framework by bringing together scientists, educators, non-governmental organizations and private sector representatives involved in the research of Renewable energy, Environmental science, Climate change and Resource sustainability.

ABOUT

COUNCIL OF INDUSTRIAL INNOVATION AND RESEARCH (CIIR) is section 8 Not-For-Profit organization. CIIR is the leading research and innovation organization in India. We are known for our Think tank innovation pool and our cutting-edge R&D knowledge base in various areas of science and technology. We are a team of innovators and scientists working on futuristic innovation to make society a better place. CIIR covers a wide spectrum of science & technology innovations with cumulative experience of many years. We work on providing significant technology in many areas which had a direct impact on society, covering areas from physics, geophysics, chemicals, drugs, genomics, biotechnology and nanotechnology to mining, aeronautics, instrumentation, environmental engineering & information technology. CIIR's main mantra lies in Innovation, Technology, IPR & Entrepreneurship. We handhold various academics and research institutions for futuristic & state of art technology and innovation. We are in process of strengthening the innovative ecosystem of the country with a vision aligned with Atamnirbhar Bharat. CIIR also provides a platform to exchange dialogues and thoughts among researchers, academicians and innovators for creating a better and innovative society.

The Teerthanker Mahaveer University was established by an 'Act' (No. 30) of 2008 of the Government of Uttar Pradesh and was approved by the University Grants Commission (UGC), since inception in 2008, vide letter No. F. 9-31/2008(CPP-1) dated October, 2008.

The University is located on National Highway-24, 144 in all the spheres of activity and aspires to be recognized as the ultimate destination for orld class education. The multidisciplinary University offers career-oriented programmes at all levels i.e. UG, PG and Doctoral degrees across diverse streams, namely, Medical, Dental, Pharmacy, Nursing, Paramedical Sciences, Physiotherapy, Hospital Administration, Physical Education, Management, Engineering, Polytechnic, Law, Fine Arts, Jain Studies, and Agriculture to meet rising aspirations of the youth. TMU provides a unique environment for students to grow under the guidance of experienced academicians and to acquire creative, innovative and technical skills which are required to make the students industry ready. Our talented faculty and staff form a dedicated team committed to the mission of the University. It is a dynamic, research-intensive University committed to the development of life-saving discoveries and new technologies to tackle some of the most pressing global challenges. Education at TMU is not just about books and classrooms but also about overall personality development and honing special skills. It provides an environment conducive to teaching and learning adequately supported by innovative academic and research programmes and practices. The University has well qualified and experienced faculty, state-of-the-art laboratories and research facilities, well planned residential space along with a great ecosystem for extra and co-curricular activities. The campus is fully wi-fi enabled and uses the latest technology to impart education. With the availability of these important building blocks of a top-notch institution, TMU enjoys a unique position to facilitate the all-round development of students to help them acquire the ability of lifelong learning and to make them competent professionals as well as good human beings. This multi-disciplinary university offers career oriented programmes at all levels.

IMPORTANT DATES

01 Final Date for Paper Submission
07.09.2022

02 Last Date of Acceptance Notification
07.09.2022

03 Final Date for Submission of Registration Fee
08.09.2022

04 Conference Date
10.09.2022

BACKGROUND

The current and future challenge of world are energy security, environmental degradation, soil and water loss, and climate change. Energy and environmental engineering make significant contributions to these grand challenges and are critical to the world's economic and ecological sustainability. New energies and environmental engineering technologies may be beneficial for resource conservation and climate change mitigation. The ecosystem is a complex network of connections in which one small change can have a large impact on the whole, but humans know very little about these complex interconnections. The interdependence of various ecological elements necessitates a systems perspective.

The conscious and unconscious actions of one creature — homo sapiens— have come to profoundly influence the course of Earth's natural history, not just in local ecosystems but on a planetary scale. Nevertheless, the most recent epoch ushered in by the industrial revolution and marked by market-directed agriculture, the widespread clearing and harvesting of forests, and the use of fossil fuels has had undeniably course altering impact on the Earth's climate. Greenhouse gases are heating the Earth. Ice that was permanent until recently is rapidly melting. Sea levels are rising. Extreme weather events are occurring with higher frequency. The effects feel differently, and regions are affected by these changes in different ways. Evidence is inevitably wrapped up in ecological, social,

and economic systems. Today we live in the shadow of already occurring and potentially disastrous impacts on ecosystems, species and genetic diversity. In the presence of climate change, these short-term events could be even more cataclysmic. The challenge in front of us is to consider solutions that can operate at micro and macro levels.

Humans are agents in climate change. Humans are affected by climate change: shifting shorelines, declining agricultural productivity, crisis of food supply, availability of water, the health of populations, and extreme weather events. In considering human impacts we must consider unique contexts, both for effects and responses. On the experience of the past one hundred thousand years, humans are clearly capable of adaptive responses. Our species has the capacity or can develop the capacity to nurture nature though a period of transition, for instance by creating corridors to assist species adaptation and inventing new agricultures which alleviate and mitigate the effects of climate change. Humans are also capable of precautionary action, reducing greenhouse gases for instance as part of a broader strategy of sustainable development. Climate change is a key intellectual and practical challenge for today's science, economics, politics, sociology, and ethics.

OBJECTIVE OF THE CONFERENCE

EECC-2022 will offer researchers, delegates and scholars an incredible chance to interact with each other and share their experience and knowledge of technology application. The goal of 2nd GEAST conference on Energy, Environment and Climate Change (EECC-2022) conference is to provide a stage for researchers and practitioners from academia and business to deal with state-of-the-art advancement in their respective fields. It will also offer participants to interact with industry experts on the recent challenges in scientific research and associated areas. Leading researchers will share their incredible research findings and tools that they use to achieve better results. This international conference on current research and education is bound to generate a number of new ideas and experiences that participants, irrespective of who they are (Experienced scientists, seasoned professionals or young scholars at the early stages of their careers) can derive and make use of in some form of another, towards the advancement of their careers. For those looking to spread awareness of their incredible research findings and other work, they will also have the chance to present their papers and articles.

The main objectives of 2nd GEAST conference are:

- Career development of faculties and personality development of the students and the overall development of the technical education and society.
- To provide a platform to researchers, academicians and professionals to share their research findings.
- To encourage researchers to identify significant research issues in identified areas, in the field of Earth Science, Energy Engineering and Climate Change.
- To form partnership with Universities/Institutions to identify researchers and innovators at grassroot level and to bring them at in a global platform.
- To help dissemination of research work through publications in the form of conference proceedings.
- To help researchers getting feedback on their research work for improving the same and making them more relevant and meaningful, through collective efforts.

- To use the research output of the conference in the curriculum for the benefits of the students.
- To encourage regional and international communication and collaboration; promote professional interaction and lifelong learning; recognize outstanding contributions of individuals and organizations; encourage scholar researchers to pursue studies and careers in circuit branches and its applications.

It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in their respective fields.

CALL FOR PAPER AND SUGGESTED THEMES

Sustainable development goals are based on three interconnected criterias: economic development, social progress and environmental protection. Development is meaningless unless it ensures long-term economic growth that ensures future generations' ability to thrive and prosper without jeopardising the environment's regenerative capacity. Economic activities always result in environmental degradation and pollution, CO2 and greenhouse gas emissions and, global warming and climate change. Hence, it is our generation's challenge to pursue low-carbon economic growth as the only way to help mitigate environmental pollution and the subsequent effects of climate change. CIIR is organising the 2nd GEAST conference as a forum to exchange research ideas, outputs, and experiences on technical, social, financial, economic, and policy issues relating to Energy, Environment, and Climate Change. We expect professionals, policymakers, researchers, engineers, and academics to gather and discuss global, regional and national issues relating to energy utilisation, its environmental impact and climate change. The following topics will be covered (but not limited to):

ENERGY ENGINEERING

- Energy Systems, Economics, and Policy
- Energy Efficiency for Sustainable Energy Transition
- Smart Grid, Electric Vehicles, and Application of AI in Energy Systems
- Energy and Sustainable Development Goals
- Renewable Energy Technologies
- Electric Power Generation, Transmission, and Distribution
- Emerging and Advance Green Energy Technologies

ENVIRONMENTAL & EARTH SCIENCES

- Air Pollution, Water Pollution
- Biodiversity
- Ecology
- Environmental Economics
- Forestry
- Human Ecology
- Natural Resources
- Nuclear and Hazardous Waste
- Oil Pollution
- Soil Conservation
- Solid Waste Management
- Environmental Management and Systems Policy

CLIMATE CHANGE

- Adaptation to Climate change
- Greenhouse Gas Mitigation and Climate Change
- CO2 Capture and Sequestration
- Climate Financing
- Climate Policy Assessment
- Carbon Market
- Low Carbon and Climate Resilient Cities
- Climate-Energy-Water-Food nexus: Policy and Practice
- Climate Change Projections: Models and Methods

PAPER SUBMISSION GUIDELINES

The manuscript (in English) should be prepared in single-column format with complete author affiliations. Abstract of approximately 150 words with 5-6 keywords, the body of the text should be in font 12 (Times New Roman) with single line spacing. A paper should be submitted in MS-Word format. The papers should be original and unpublished offering new insights, new approaches or new knowledge in the field of science and technology. Abstract or full-text studies in English can be sent to the conference web link.

KINDLY SUBMIT YOUR PAPERS USING THE LINK

https://forms.gle/fSbQtZwn9qf1xsyu8

CRITERIA FOR EVALUATION AND PUBLICATION OF PAPER

All papers that are submitted to the conference will be peer-reviewed. Title and Abstract with affiliation details of accepted papers will be published in the conference proceedings. A selected number of full papers shall be published in journals of international repute by payment of additional charges by the author.

REGISTRATION FEES

Industry/Faculty Participants
Rs. 1000/-

Students/Research Scholars
Rs. 500/-

ORGANIZING COMMITTEE

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