

**REPORT OF**  
**NATIONAL CONFERENCE ON**  
**EMERGING TRENDS IN ENVIRONMENTAL**  
**RESEARCH**

**(NACETER 2019)**

31 October – 2 November 2019



**Organized by:**

*Department of Environmental Science  
Pachhunga University College, Aizawl*

**In Collaboration with:**

*Environment, Forests & Climate Change Department  
Government of Mizoram*

**Sponsored by:**

*North Eastern Council, Government of India, Science and  
Engineering Research Board (SERB) & Mizoram University*

**Venue:**

*Seminar Hall, Pachhunga University College, Aizawl*

## **SUMMARY REPORT OF NACETER 2019**

The three days “*National Conference on Emerging Trends in Environmental Research (NACETER 2019)*” was organised by the Department of Environmental Science, Pachhunga University College, Aizawl, during 31<sup>st</sup> October – 2<sup>nd</sup> November 2019, at the seminar hall of Pachhunga University College, Aizawl. The conference was sponsored by North Eastern Council, Government of India, Science and Engineering Board (SERB), A Statutory body of DST, Government of India and Mizoram University. The conference was organised in collaboration with Department of Environment, Forests & Climate Change, Government of Mizoram. The total number of participants for NACETER 2019 is 171. There were 6 technical sessions, one parallel poster session, one Inaugural session and a Valedictory session, total of 9 sessions. There were 6 Keynote addresses delivered by resource persons with expertise working on the focal theme of the conference. The Keynote speakers are Prof. MK Purkait, IIT, Guwahati, Prof. OP Singh, NEHU, Prof. Diwakar Tiwari, Mizoram University, Prof. Parthankar Choudhury, Assam University, Prof. Lalram nghinglova, Mizoram University and Prof. S. Ibotombi. Manipur University. A total of 79 papers were presented out of this 55 papers were presented under oral presentation and 24 papers under poster presentation.

Three awards were given in the following Category: Young Scientist, Best Oral Presentation & Best Poster Presentation Award. In the Young Scientist Award Category, Miss Deborah Daolagupu, Research Scholar, Department of Ecology & Environmental Science, Assam University got the award; Miss Lalrampani Chawngthu, Research Scholar, Department of Botany, Mizoram University got the Best Oral Presentation Award and Mr. Kenyelo Rengma, Research Scholar, Department of Geology, Nagaland University got the Best Poster Presentation Award.

### **INAUGURAL SESSION**

The inaugural session of the National Conference was started with the Opening Song performed by the Environmental Science Core Students. The function was graced by **Pu TJ Lalnuntluanga**, Hon’ble Minister, Environment, Forests & Climate Change, Government of Mizoram as the Chief Guest in presence of the following distinguished dignitaries Dr. Tawnenga, Principal, Pachhunga University College, Chairman of the Inaugural session, Prof. M.K. Pukait, Indian Institute of Technology, Guwahati as Guest of Honour, Prof. U.K. Sahoo, Dean, School of ES & NRM, Mizoram University and Chairman, Organizing Committee, NACETER 2019 and Dr. K. Khelchandra Singh, Head, Department of Environmental Science, Pachhunga University College and Convener, NACETER 2019.



### Inaugural Session

#### RELEASE OF THE ABSTRACT BOOK:

**Pu TJ Lalnunluanga**, Hon'ble Minister, Environment, Forests & Climate Change, Government of Mizoram, Chief Guest of the Inaugural Session released the Abstract Book entitled "*Emerging Trends in Environmental Research*" (ISBN 978-93--89262-05-6) during the function. The editor for the book is Dr. K. Khelchndra Singh, Head, Department of Environmental Science, Pachhunga University College, Aizawl. The book was compiled from the abstracts received from different scholars working on the focal theme of the conference, for presentation at the "*National Conference on Emerging Trends in Environmental Research (NACETER 2019)*". South-Eastern Book Agencies, Guwahati is the publisher of the book.

The abstract book is composed of 7 sections. Each section is compiled based on the abstract contributed by different authors working on the related fields of environmental research. There are 5 abstracts in section 1, mainly focussing on topics to be delivered by the Keynote Speakers. There are 15 abstracts in Section 2 which focuses on the subthemes like Environmental Pollution and Control Measures, Management of Freshwater Environments, Environmental Sustainability. A comprehensive account of 15 papers relating to subthemes

viz., Ecology, Biodiversity and Conservation, Ecosystem Analysis and Protection are included in section 3. A very details interesting account of information on different ethnic ecological knowledge base customs and beliefs which leads to conservation of nature, compiled in section 4, includes 8 papers on Traditional Knowledge, Wildlife Management. Under the Geoscience, Remote Sensing and GIS subthemes, 12 papers are compiled in section 5. In the subtheme of Climate Change, Carbon Sequestration, Solid Waste Management, Environmental Protection Laws, 12 papers are included in section 6. Multidisciplinary topics are presented in section 7 includes 3 papers.



**Pu TJ Lalnuntluanga, Chief Guest and Hon'ble Minister, Environment, Forests & Climate Change, Government of Mizoram releasing the Abstract Book at the Inaugural Session of NACETER 2019.**

### **TECHNICAL SESSIONS:**

In the three days national conference altogether there were six technical sessions, one parallel poster session along with inaugural session and valedictory session. There were 6 Keynote addresses delivered by resource persons with expertise working on the focal theme of the

conference. A total of 79 papers were presented out of this 55 papers were presented under oral presentation and 24 papers under poster presentation.

On the first day, Inaugural session, two technical session and one parallel poster session was scheduled. In the **first technical session**, Prof. Mihir Kumar Purkait, Head, Centre for Environment, IIT Guwahati, delivered the keynote address on the topic *Indian Economic Water Crisis - A Strategic Analysis*. This was followed by 9 oral presentations on the theme of Environmental Pollution and Control measures. The **second technical session** theme was on Biodiversity & Conservation, Ecosystem Analysis & Protection; Prof. Om Prakash Singh, Department of Environmental Studies, NEHU, Shillong delivered a keynote address on the topic *Environmental Impact of Energy Use: Current Scenario and Future Perspective*. In this session, 7 oral presentations were delivered. In the parallel **poster session** 24 papers were presented.

On the second day, four technical sessions was slotted. The **third technical session** theme was on Management of Freshwater Environments, Environmental Chemistry. Prof. Diwakar Tiwari, Head, Department of Chemistry, Mizoram University delivered the keynote address on the topic *Advanced oxidation process in the efficient removal of micropollutants from aqueous solutions: use of Ag<sup>0</sup>/Or Au<sup>0</sup> (NPS)/TiO<sub>2</sub> nanopillars*; this was followed by 6 oral presentations. The **fourth technical session** focused on the theme of Climate Change, Carbon Sequestration, Solid Waste Management, Environmental Protection Laws. The keynote address was given by Prof. Parthankar Choudhury, Head, Department of Ecology and Environmental Science, Assam University on the topic *Environmental Movement: India's Heritages and Role of Women in environmental movement*, this was followed by 9 oral presentations. The **fifth technical session** dealt on Traditional Knowledge, Wildlife Management. Prof. Lalramnghinglova, Department of Environmental Sciences, Mizoram University gave keynote address on the topic *Biodiversity of Northeast India with special reference to Mizoram*. In this session 9 papers were presented. The **sixth technical session** was on Geosciences; Prof. Soibam Ibotombi, Head, Department of Earth Sciences, Manipur University delivered keynote address on *Landslide Scenario in Manipur Vis-A-Vis Indo-Myanmar ranges of Northeast India: Environmental and Human Influences*. This was followed by 10 oral presentations.



**VALEDICTORY SESSION:**

The valedictory function was chaired by **Dr. H.S. Thapa**, Head, Department of Botany, Pachhunga University College, Aizawl. **Dr. Keyiekhrie Kire**, IFS, Addl. PCCF, Government of Mizoram grace the function as Chief Guest. **Dr. Kulendra C. Das**, Organizing Secretary, NACETER 2019 presented a detailed report of the 3 days “*National Conference on Emerging Trends in Environmental Research (NACETER 2019)*”. Certificates and awards were distributed to the participants of the conference. The conference ended with vote of thanks by **Dr. K. Khelchandra Singh**, HOD, Department of Environmental Science, Pachhunga University College, Aizawl and Convener, NACETER 2019.



**Valedictory Function**

Dr. Lallawmkimi  
Dept. IQAC i/c

\*\*\*\*\*

Dr. K. Khelchandra Singh  
(Convener NACETER 2019  
& Head, Dept. of Environmental Science)