



राष्ट्रीय प्रौद्योगिकी संस्थान मिजोरम
NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM



THE COMPENDIUM

OCTOBER 2023

VOLUME II, ISSUE IV

Director's Message



**Prof. S. Sundar
Director
NIT Mizoram**

Greetings !!

This is the Fourth issue of the Second volume of the Institute newsletter 'THE COMPENDIUM'. It is a short collection of advancement of our students, teaching fraternity and staff during the month of October 2023.

I appreciate the Editorial team for their relentless effort in bringing out 'THE COMPNEDIUM'. I congratulate faculty members and students for their publications, participation in academic events, organising academic activities and other notable achievements.

I wish all the readers a happy reading !!



Editor~ In~ Chief's Message



Dr. Shuchi
Associate Professor
Dept. of HSS (English)

Warm Greetings !!

I am pleased to bring out the Fourth issue of the Volume II-Institute monthly newsletter, 'THE COMPENDIUM: a synopsis of events and academic prosperity of NIT Mizoram'.

The highlights of the current issue encompass academic & outreach activities and a wide spectrum of research & development for the month of October 2023.

I express my heartfelt gratitude towards the Director, NIT Mizoram, Prof S Sundar for his encouragement and Support.

I extend my sincere thanks to the Editor, Dr. Saurav Suman for all his help and technical support.

I also thank all my colleagues (faculty & office staff) and students of NIT Mizoram for their support by sending their achievements to us.

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RESEARCH AND DEVELOPMENT

❖ WORKSHOPS/CONFERENCES/STTP/FDP/EXTRA-MURAL LECTURES CONDUCTED

✚ International Workshop on Computer Simulation Methods (IWCSM-2023)



INTERNATIONAL WORKSHOP ON COMPUTER SIMULATION METHODS (IWCSM-2023)
16th - 20th October, 2023
National Institute of Technology Mizoram, Aizawl-796012, Mizoram

The objective of this workshop is to highlight the potential of multiscale modeling in understanding and tailoring material properties for specific technological uses. Primary focus will be on methodologies based on molecular dynamics and density functional theory. Particular emphasis will be given on the collaborative relationship between experiments and theory. The aim of this workshop is to stress the possibilities that multiscale modelling offers in controlling of the material properties and tailoring them for specific applications.

Registration
The level of workshop is appropriate for 4th year B Tech, M Tech, M.Sc. and Ph.D. students from universities/institutes. Registration can be made online on the given link (No Registration Fee). Background in LINUX is helpful for hands-on sessions.

SIESTA Team : Prof. Ravi Pandey (Michigan Tech), Prof. M L Verma (SSTC, Bhillai)
Prof. Ashok Kumar (CUP, Bhafinda), Prof. Keshav Rao (SSTC, Bhillai)
Prof. Munish Sharma (MAU, Solan), Dr. Neha Katoch (CUHP, Shimla)

Invited Speakers: Prof. Avinash Pandey, IUAC Delhi
Prof. Sanjay Tiwari, M P Bhoj Open University, Bhopal.
Prof. Munima Saharia, Tejpur
Prof. Anupam Jha, Silchar

Important Dates :
Registration Open : 30th August, 2023
Registration closes : 30th Sept. 2023
Intimation letter : 05th Oct. 2023

Advisory Committee :
Prof. Ravindra Pandey, Michigan Technological University, USA
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Dr. Ashok Kumar, NPL Delhi, India
Dr. O. P. Thakur, SSPL DRDO Delhi, India

Link For Registration:
Google Form Link :
<https://forms.gle/uvQqoY6gJWRP9gG6>
(30 Participants, preference will be given to the students pursuing PhDs)

Contact: Prof. Alok Shukla, Convener
Email: alok.physics@nitmiz.ac.in
Mob.: 9862860045

Organizing committee :
Patron: Prof. S. Sundar, Director, National Institute of Technology Mizoram, Aizawl
Convener: Prof. Alok Shukla, National Institute of Technology Mizoram, Aizawl
Coordinator: Dr. Sandeep Kumar Dash, National Institute of Technology Mizoram, Aizawl
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Dr. Vinay Singh, National Institute of Technology Mizoram, Aizawl
Dr. L. Thansanga, National Institute of Technology Mizoram, Aizawl



❖ PUBLICATION (Journal/Conference/Book Chapter)

1. Anu Kumar Das, Dayal Ch. Shill, Saibal Chatterjee, "Exploration of Electrochemical and Thermal Attributes to Evaluate the Performance of Novel Natural Esters", accepted for IEEE Transactions on Dielectrics and Electrical Insulation
2. Sushil Joshi, Alok Shukla, Nitin Kumar, R N P Choudhary, "Nd Substitution Response on Structural, Dielectric, and Electrical Features Of Bismuth Iron Titanate" Ceramics International, doi.org/10.1016/j.ceramint.2023.10.259
3. Malviya, R. Kala, "Navigation with A Cooperative Social Robot for A Group Of Visitors Using Face Detection And A 'Stop And Wait' Scheme", Journal of Scientific and Industrial Research, DOI: <https://doi.org/10.56042/jsir.v82i10.3571>

❖ WORKSHOPS/CONFERENCES/STTP/FDP/EXTRA-MURAL LECTURES ATTENDED

1. Mr. Sushil Joshi (Research Scholar in Physics) attended the International Workshop on Computer Simulation Methods (IWCSM-2023) NIT Mizoram from 16th to 20th October 2023.
2. Ms. Manisha Kumari (Research Scholar in Physics) attended the International Workshop on Computer Simulation Methods (IWCSM-2023) NIT Mizoram from 16th to 20th October 2023.
3. Ms. Anjali Antony (Research Scholar in Physics) attended the International Workshop on Computer Simulation Methods (IWCSM-2023) NIT Mizoram from 16th to 20th October 2023.

FACULTY AWARDS & ACHIEVEMENTS

1. EXPERT/INVITED TALK /SESSION CHAIRED IN
WORKSHOP/STTP/CONFERENCE:

1. Prof. Saibal Chatterjee (Dept. of Electrical Engineering) was invited for NAAC peer team visit on 26th Oct and 27th Oct 2023 as the Chairman of the peer team.
2. Prof. Saibal Chatterjee (Dept. of Electrical Engineering) chaired a technical session in 32nd Congress of APTSMS along with the International Conference on Computational Modelling in Science and Engineering (ICCMSE-2023), held on October 28–30, 2023, at the National Institute of Technology, Warangal, Telangana, India.

❖ RESEARCH OUTLOOK @ NIT MIZORAM

PC Vanengmawia is a full-time research scholar in the Department of BS & HSS (Mathematics). His research is centred on Computational Fluid Dynamics (CFD) with a particular emphasis on the analysis of flow and heat distribution within a channel filled with a Bidisperse Porous Medium (BDPM) involving forced, natural, and mixed convection phenomena. Employing the Homotopy Analysis Method (HAM), he addresses the governing equations, shedding light on the intricate relationships among fluid flow, heat transfer, and the unique attributes of BDPM. Understanding the behaviour of heat transport is crucial for the design and optimization of systems incorporating BDPM. His research contributes valuable insights that can benefit researchers and engineers. These insights may lead to advancements in various industrial applications, enhance system performance, and promote the development of more sustainable engineering solutions.



EVENTISTRY





धर्मादर्थः प्रभवति धर्मात्प्रभवते सुखम्।
धर्मेण लभते सर्वं धर्मसारमिदं जगत्॥
(वाल्मीकिरामायणम् 3.9.31)

Righteousness brings wealth. Righteousness brings happiness.
Righteousness brings everything. In fact, the essence of the world is righteousness (Vālmīkīrāmāyaṇam 3.9.31)