



Anusandhan
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NATIONAL CONFERENCE ON ADVANCED MATERIALS 2026 (NCAM-26)

August 24-25, 2026

Organised by the Department of Physics,

Pachhunga University College (A Constituent college of Mizoram University)

Chief Guest: Prof. Dibakar Chandra Deka, VC, Mizoram University

Guest of Honour: Prof H. Lalthanzara, Principal, Pachhunga University College

Keynote Speakers

1. **Prof. Subodh Kumar De**, Senior Professor, Indian Association for the Cultivation of Science
2. **Prof. Debnarayan Jana**, Professor, Department of Physics, University of Calcutta
3. **Prof. Vasudevan Subramanyan**, Emeritus Scientist, CSIR-Central Electrochemical Research Institute

Invited speakers:

1. **Dr Om Prakash Thakur**, Scientist G and Technology Director (Materials) at Solid State Physics Laboratory (DRDO), Delhi
2. **Dr. Biswarup Satpati**, Scientist, Saha Institute of Nuclear Physics, Kolkata
3. **Prof. Ajmal Koya Pulikkal**, Professor, Department of Chemistry, National Institute of Technology, Mizoram
4. **Dr Mrinal Pal**, Scientist-G, CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata 700032, India
5. **Prof. Subhratanu Bhattacharya**, Professor, Department of Physics, University of Kalyani, Kalyani, Nadia, West Bengal, India
6. **Dr. Dibya Prakash Rai**, Associate Professor, Department of Physics, Mizoram University, Mizoram, India
7. **Dr. Joydeep Das**, Assistant Professor, Department of Chemistry, Mizoram University, Mizoram, India
8. **Dr. Arvind Maurya**, Assistant Professor, Department of Physics, Mizoram University, Mizoram, India
9. **Dr Satish Kumar Pandey**, Assistant Professor, Department of Biotechnology, Mizoram University, Mizoram, India
10. **Dr. Nidhi Yadav**, Assistant Professor, Department of Chemistry, NIT, Mizoram, India
11. **Dr. Aniket Chowdhury**, Assistant Professor, Department of Industrial Chemistry, Mizoram University, Mizoram, India



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DAY- 1 (24-08-2026)

Time	Events
9:00 AM - 10:00 AM (60 mins)	Registration
10:00 AM- 11:00 AM (60 mins)	Inaugural Session @Seminar Hall, Pachhunga University College, Chairman: Prof. Shivraj Gurung, HoD, Department of Physics, Pachhunga University College
10:00 AM- 10:05 AM (5 mins)	Welcome Speech: Chairman, Prof. Shivraj Gurung Felicitation: Dr. Y. Rangeela Devi, Co-Convenor, NCAM-26
10:05 AM- 10:30 AM (25 mins)	Speech by the Chief Guest, the Hon'ble Vice-Chancellor of Mizoram University, Prof. Dibakar Chandra Deka
10:30 AM- 10:50 AM (20 mins)	Speech by the Guest of Honour, the Hon'ble Principal of Pachhunga University College, Prof. H. Lalthanzara
10:50 AM- 11:00 AM (10 mins)	Vote of thanks for the inaugural session: Dr. Y. Rangeela Devi, Associate Professor, Department of Physics, Pachhunga University College
11:00 AM- 11:30 AM (30 mins)	HIGH TEA
11:30 AM- 01:00 PM (90 mins)	TECHNICAL SESSION 1: Chairman: Prof. B. Lalremruata, HoD, Dept of Physics, Mizoram University
11:30 AM- 12:00 PM (30 mins)	Keynote address 1: Prof. Subodh Kumar De , Indian Association for the Cultivation of Science Topic: <i>Electronic and Magnetic Properties of Materials</i>
12:00 PM- 12:20 PM (18+2 mins)	Invited Talk 1: Dr Om Prakash Thakur , Scientist G and Technology Director (Materials) at Solid State Physics Laboratory (DRDO), Delhi Topic: <i>Advanced Functional Single Crystals: Growth Challenges, Wafer Technologies, and Emerging Applications in Power Electronics and Sensing</i>
12:20 PM- 12:40 PM (18+2 mins)	Invited Talk 2: Dr. Biswarup Satpati , Scientist, Saha Institute of Nuclear Physics, Kolkata Topic: <i>Noble Metal Based Electrocatalysts for Alcohol Oxidation Reactions</i>
12:40 PM- 01:00 PM (18+2 mins)	Invited Talk 3: Prof. Ajmal Koya Pulikkal , Professor, Department of Chemistry, National Institute of Technology, Mizoram Topic: <i>Nanoemulsion of Cymbopogon winterianus essential oil: Formulation, molecular insights, and bioactivity</i>
01:00 PM- 02:00 PM (60 Mins)	LUNCH



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02:00 PM- 03:30 PM (90 mins)	TECHNICAL SESSION 2 (SEMINAR HALL)	02:30 PM- 03:30 PM	TECHNICAL SESSION 3 (DEPARTMENTAL ROOM)
	Chairman: Prof. Zaithanzauva Pachuau , Sr. Professor, Dept of Physics, Mizoram University		Chairman: Prof. Lalhriatzuala Judges: Prof. Subodh Kumar De Dr. Aniket Chowdhury
02:00 PM- 02:30 PM (30 mins)	Keynote address 2: Prof Debnarayan Jana , Professor, Department of Physics, University of Calcutta Topic: Dirac Materials: Past and Present		
02:30 PM- 02:50 PM (18+2 mins)	Invited Talk 4 Dr Mrinal Pal Scientist-G, CSIR-Central Glass and Ceramic Research Institute (CGCRI), Kolkata 700032, India Topic: Semiconductor Nanostructured Based Gas Sensors towards human Healthcare	02:30 PM- 02:40 PM (8+2 mins)	Oral Presentation 1 Mr Mahesh Kumar K L NIT Mizoram
		02:40 PM- 02:50 PM (8+2 mins)	Oral Presentation 2 Mr Manish Kumar Pandey NIT Mizoram
02:50 PM- 03:10 PM (18+2 mins)	Invited Talk 5 Prof. Subhratanu Bhattacharya Professor, Department of Physics, University of Kalyani, Kalyani, Nadia, West Bengal, India Topic: Designing Safer Gel Polymer Electrolytes for Lithium Batteries	02:50 PM- 03:00 PM (8+2 mins)	Oral Presentation 3 Mr Rupam Tamang Mizoram University
		03:00 PM- 03:10 PM (8+2 mins)	Oral Presentation 4 Miss Prarthana Puzari Institute of Advanced Study in Science and Technology (IASST)
03:10 PM- 03:30 PM (18+2 mins)	Invited Talk 6 Dr. Dibya Prakash Rai Associate Professor, Department of Physics, Mizoram University, Aizawl, Mizoram, India Topic: SnSiGeN_4 Photocatalyst for Water Splitting and H_2 Generation	03:10 PM- 03:20 PM (8+2 mins)	Oral Presentation 5 Mr Subham Subba University of North Bengal
		03:20 PM- 03:30 PM (8+2 mins)	Oral Presentation 6 Mr T. Lalthanthuama Mizoram University
3:30 PM- 4:30 PM	Poster Session 1 (with TEA)		
	Judges: Dr. Biswarup Satpati, Dr Om Prakash Thakur Mr Dikshit Bokotial, Miss Trisha Das, Miss R. Lalruatsangi, Mr Zonunmawia Chawngthu, Mr H Vanlalabela, Dr Paridhi Sanchora, Miss Sougaijam Thasana Chanu, Miss Grikanchi K Marak, Miss Angela Chinggelkim, Mr J. Lalhlipua		



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03:30 PM- 04:30 PM (60 mins)	TECHNICAL SESSION 4 (SEMINAR HALL)	03:30 PM- 04:30 PM (60 mins)	TECHNICAL SESSION 5 (DEPARTMENTAL ROOM)
	Chairman: Prof Ramesh Chandra Tiwari		Chairwoman: Dr Y. Rangeela Devi Judges for Oral presentation Prof. Subhratanu Bhattacharya Dr. Dibya Prakash Rai
03:30 PM- 03:50 PM (18+2 mins)	Invited Talk 7	03:30 PM- 03:40 PM (8+2 mins)	Oral Presentation 7
	Dr. Joydeep Das Assistant Professor, Department of Chemistry, Mizoram University, Mizoram, India Topic: <i>Synthesis of Zeolitic Imidazolate Framework-67 (ZIF-67), as highly efficient oxidase/peroxidase-mimic nanoenzyme for colorimetric detection of bio-analytes</i>		Mr Laldingliana NIT Mizoram
03:50 PM- 04:10 PM (18+2 mins)	Invited Talk 8	03:40 PM- 03:50 PM (8+2 mins)	Oral Presentation 8
	Dr. Arvind Maurya Assistant Professor, Department of Physics, Mizoram University, Mizoram, India Topic: <i>Adiabatic demagnetization refrigerator based on magnetocaloric materials and its use in space- applications</i>		Miss Himadri Nath Institute of Advanced Study in Science and Technology Soft-Nano Laboratory
04:10 PM- 04:30 PM (18+2 mins)	Invited Talk 9	03:50 PM- 04:00 PM (8+2 mins)	Oral Presentation 9
	Dr Satish Kumar Pandey Assistant Professor, Department of Biotechnology, Mizoram University, Mizoram, India Topic: <i>From Diagnosis to Therapy: The Role of Nanomaterials in Modern Theranostics</i>		Mr Md Abu Sayeed Sujana University of North Bengal
04:30 PM- 05:00 PM (30 mins)	TECHNICAL SESSION 6 (SEMINAR HALL)	04:00 PM- 04:10 PM (8+2 mins)	Oral Presentation 10
	Chairman: Prof. Shivraj Gurung Judges for Oral presentation Dr Mrinal Pal Prof. Ajmal Koya Pulikkal		Miss Hani Laltlanmawii Mizoram University
04:30 PM- 04:40 PM (8+2 mins)	Oral Presentation 13	04:10 PM- 04:20 PM (8+2 mins)	Oral Presentation 11
	Dr Biswajeet Mukherjee University of Delhi		Mr Rahul Sonkar Institute of Advanced Study in Science and Technology
04:30 PM- 05:00 PM (30 mins)	TECHNICAL SESSION 7 (DEPARTMENTAL ROOM)	04:20 PM- 04:30 PM (8+2 mins)	Oral Presentation 12
	Chairman: Prof. Lalhriatzuala Judges for Oral presentation Dr. Biswarup Satpati Dr Om Prakash Thakur		Miss Jaquelin Jenila T Presidency College
04:30 PM- 04:40 PM (8+2 mins)	Oral Presentation 16	04:30 PM- 04:40 PM (8+2 mins)	Oral Presentation 16
	Miss Trinisha Infancy W Presidency College		



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04:40 PM- 04:50 PM (8+2 mins)	Oral Presentation 14 Mr R. Zosiamliana Pachhunga University College	04:40 PM- 04:50 PM (8+2 mins)	Oral Presentation 17 Mr Nikesh Kumar Institute of Advanced Study in Science and Technology
04:50 PM- 05:00 PM (8+2 mins)	Oral Presentation 15 Mr Celestine Lalengmawia Pachhunga University College	04:50 PM- 05:00 PM (8+2 mins)	Oral Presentation 18 Mr Satish Kumar IIT Guwahati
End of Day 1			
Day 2 (25-08-2026)			
10:00 AM- 11:10 AM	TECHNICAL SESSION 8 (SEMINAR HALL) Chairman: Prof. Lalhriatzuala , HoD, Department of Geophysics, Pachhunga University College	10:00 AM- 11:20 AM	TECHNICAL SESSION 9 (DEPARTMENTAL ROOM) Chairman: Dr. Lalrinthara Pachuau Judges for oral presentation Dr. Joydeep Das Dr Satish Kumar Pandey
10:00 AM- 10:30 AM (30 mins)	Keynote address 3: Prof. Vasudevan Subramanyan , Emeritus Scientist, CSIR- Central Electrochemical Research Institute Topic: Hydrogen Energy: Powering a Cleaner Future		
10:30 AM- 10:50 AM (18+2 mins)	Invited Talk 10 Dr Nidhi Yadav Assistant Professor, Department of Chemistry, National Institute of Technology, Mizoram, India Topic: Camellia sinensis Leaf- Assisted Green Synthesis of SO₃H-Functionalized ZnS/Biochar Nanocatalyst for Highly Selective Solketal Production and Improved Reusability in Methylene Blue Dye Adsorption	10:30 AM- 10:40 AM (8+2 mins) 10:40 AM- 10:50 AM (8+2 mins)	Oral Presentation 19 Mr Lalhumhima Pachhunga University College. Oral Presentation 20 Dr Sukhendu Maity Biswa Bangla Biswabidyalay
10:50 AM- 11:10 AM (18+2 mins)	Invited Talk 11 Dr. Aniket Chowdhury , Assistant Professor, Department of Industrial Chemistry, Mizoram University, Mizoram, India	10:50 AM- 11:00 AM (8+2 mins) 11:00 AM- 11:10 AM (8+2 mins)	Oral Presentation 21 Miss Sivasankeerthana M.V PSG College of Technology Oral Presentation 22 Mr Rahul Kalita IIT Delhi Oral Presentation 23



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	Topic: <i>Artificial Light Harvesting Systems: A Recent Outlook</i>	11:10 AM-11:20 AM (8+2 mins)	Miss Jagruti Rajendra Jangale Natubhai V. Patel College of Pure and Applied Sciences
11:20 AM-11:40 AM	TEA BREAK		
11:40 AM-01:00 PM	TECHNICAL SESSION 10 (SEMINAR HALL)	11:40 AM-01:00 PM	TECHNICAL SESSION 11 (DEPARTMENTAL ROOM)
	Chairman: Prof Shivraj Gurung Judges for oral presentation: Dr Mrinal Pal Dr. Arvind Maurya		Chairman: Dr. N. Surajkumar Singh Judges for oral presentation: Dr Nidhi Yadav Dr. Aniket Chowdhury
11:40 AM-11:50 AM (8+2 mins)	Oral Presentation 24	11:40 AM-11:50 AM (8+2 mins)	Oral Presentation 32
	Dr Avinash Rundla Jawaharlal Nehru University New Delhi		Mrs Srija Ghosh Indian Association for the Cultivation of Science
11:50 AM-12:00 PM (8+2 mins)	Oral Presentation 25	11:50 AM-12:00 PM (8+2 mins)	Oral Presentation 33
	Dr Priyanka Jawaharlal Nehru University, New Delhi		Mr Gouranga Mahapatra Indian Association for the Cultivation of Science
12:00 PM-12:10 PM (8+2 mins)	Oral Presentation 26	12:00 PM-12:10 PM (8+2 mins)	Oral Presentation 34
	Dr Monalisa Adhikari IIT Guwahati		Mr Abhisnata Bairagi Jadavpur university
12:10 PM-12:20 PM (8+2 mins)	Oral Presentation 27	12:10 PM-12:20 PM (8+2 mins)	Oral Presentation 35
	Dr Arjun Kumawat Vivekananda Global University Jaipur		Mr Md Naseem Ansari Maulana Azad National Urdu University
12:20 PM-12:30 PM (8+2 mins)	Oral Presentation 28	12:20 PM-12:30 PM (8+2 mins)	Oral Presentation 36
	Miss Saonli Dutta NIT Silchar		Mr Suman Halder Jadavpur University
12:30 PM-12:40 PM (8+2 mins)	Oral Presentation 29	12:30 PM-12:40 PM (8+2 mins)	Oral Presentation 37
	Miss Aparajita Roy IIT Guwahati		Mr Avdhesh Kumar Veer Bahadur Singh Purvanchal University
12:40 PM-12:50 PM (8+2 mins)	Oral Presentation 30	12:40 PM-12:50 PM (8+2 mins)	Oral Presentation 38
	Mr Saiyad Akhirul Ali Institute of Advanced Study in Science and Technology (IASST)		Miss Swarnalaty Maity Indian Association for the Cultivation of Science
12:50 PM-01:00 PM (8+2 mins)	Oral Presentation 31	12:50 PM-01:00 PM (8+2 mins)	Oral Presentation 39
	Dr Abu Jahid Akhtar Diamond Harbour Women's University		Miss Pratyusha Das Indian Association for the Cultivation of Science
01:00 PM – 01:50 PM	LUNCH BREAK		



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(50 mins)	
01:50 PM – 02:40 PM (50 mins)	Poster Session 2 (SEMINAR HALL) Judges: Prof. Subhratanu Bhattacharya and Dr Om Prakash Thakur Miss Lalthakimi, Mr Josef Lalhruaitluanga Mr Benjamin L Fanai Mr Lalruatsanga Mr Himangshu Roy Mr Lalthansanga Mr Pc Chuaukunga Mr Rohan Bhattacharjya Mr C. Zothansanga
02:40 PM- 03:30 PM (50 mins)	Movie Screening: The Quantum Indians
03:30 PM- 03:40 PM	TEA
03:40 PM- 04:50 PM	CLOSING SESSION Seminar Hall, Pachhunga University College Chief Guest: Prof H. Lalthanzara, Principal, Pachhunga University College Chairman: Prof. Shivraj Gurung, Professor, Department of Physics, Pachhunga University College
03:40 PM- 04:00 PM	Speech by Chief Guest
04:00 PM- 04:20 PM	Feedback speech from participants
04:20 PM- 04:30 PM	Prize Distribution
04:30 PM- 04:50 PM	Vote of Thanks: Dr. Anup Debnath, Convenor, NCAM-26 and Assistant Professor, Department of Physics, Pachhunga University College
	End of the Programme

You all are cordially invited for dinner after the conference!

Dr Anup Debnath, Convenor, NCAM-26