



In Commemoration of the Platinum Jubilee Year of The New College and
PG & Research Department of Chemistry

The PG & Research Department of Chemistry
Presents

NC-AMEEH 2026

National Conference on
Advanced Materials for Energy,
Environment and Health

January 07, 2026

 **Hajee Anaikar Abdul Shukur
Auditorium (HAAS Auditorium)**
THE NEW COLLEGE CAMPUS



ORGANISED BY

PG & RESEARCH DEPARTMENT OF CHEMISTRY
THE NEW COLLEGE

(State Govt. Aided Autonomous Institution, Affiliated to the
University of Madras)

Re-accredited by NAAC with "A++" Grade in the 4th Cycle
Peters Road, Royapettah, Chennai – 600014, Tamil Nadu, India.



ABOUT THE CONFERENCE

Scope

The conference aims to bring together researchers, scientists, academicians and industry professionals to discuss the latest advancements and innovations in advanced materials for energy, environment and health applications. The conference will provide a platform for knowledge sharing, collaboration and discussion on the synthesis, characterization and applications of advanced materials in various chemistry domains.



Objectives

- To discuss the latest advancements and trends in advanced materials for energy, environment and health applications.
- To provide a platform for knowledge sharing and collaboration among researchers, scientists and industry professionals.
- To identify future directions and opportunities for research and development in advanced materials.

Focus

- **Energy:** Advanced materials for renewable energy, energy storage and energy efficiency including solar cells, fuel cells, batteries and supercapacitors.
- **Environment:** Advanced materials for environmental remediation, pollution control and sustainable development including materials for water treatment, air purification and waste management.
- **Health:** Advanced materials for biomedical applications including biomaterials, implants, drug delivery systems and biosensors.

Target Audience

Students and
Young
Researchers

Researchers and
Scientists from
Academia and Industry

Industry
Professionals and
Entrepreneurs

Policymakers and
Government
Officials



Conference Themes

- Advanced Materials
- Nanomaterials and Nanotechnology
- Photocatalysis and Catalysis
- Renewable Energy (Solar, Wind, Hydrogen)
- Energy Storage (Batteries, Supercapacitors, Fuel Cells)
- Environmental Remediation and Water Purification
- Circular Economy and Sustainable Materials
- Drug Delivery and Biomedical Applications
- Smart Sensors and Wearable Materials
- Materials Informatics and Artificial Intelligence
- Machine Learning for Materials Discovery
- Biomaterials
- Electrochemical CO₂ Reduction
- Photocatalytic Water Splitting
- Green Hydrogen Production
- Biochar and Biomass Conversion
- Rare Earth and Critical Element Recovery
- Thermal Energy Storage and Phase Change Materials
- 2D Materials and Emerging Electronics (Graphene, MXenes, TMDs, Phosphorene)
- Metal–Organic and Covalent Organic Frameworks (MOFs & COFs)
- Organic–Inorganic Hybrid Materials
- High–Entropy Oxides and Spinel Oxides
- Quantum Dots and Carbon Nanodots
- Single–Atom Catalysts and M–N–C Catalysts



ABOUT THE COLLEGE



The New College, established in 1951 in Chennai by the Muslim Educational Association of Southern India (MEASI), was founded to provide higher education opportunities for the Muslim community, while remaining open to students from all communities. Inspired by reformers like Sir Syed Ahmed Khan, MEASI started its educational efforts in 1902. The college began on 2 July 1951 in Royapettah, Chennai and was named after The New College of Oxford University.

Initially offering Pre-University courses, the college introduced UG programmes in 1956 and its first PG programme (M.A. Arabic) in 1965. Today, it offers 29 UG, 15 PG, 7 M.Phil. and 11 Ph.D. programmes across two shifts, serving about 6,500 students. The institution became autonomous in 2007, secured an A++ grade (CGPA 3.61) in its fourth NAAC cycle and consistently features in the NIRF ranking (151–200 band). The Internal Quality Assurance Cell (IQAC) ensures curriculum updates and quality standards.

The college promotes holistic education through active social service wings like NSS, NCC, Rotaract, Youth Red Cross and departmental clubs coordinated by the New College Social Service Centre. It has adopted five villages under the Unnat Bharat Abhiyan scheme. Career readiness is supported by a dedicated Placement Cell, a compulsory Employability Skills course and a Competitive Examination Cell.

Campus facilities include a hostel for 550 students with eco-initiatives, a well-equipped library with 1.4 lakh books and digital resources and extensive sports facilities. Students excelling in sports are admitted under the sports quota with free education and accommodation. Green initiatives such as rainwater harvesting, solar power, herbal gardens and e-governance systems highlight the college's commitment to sustainability.

With strong alumni support and a focus on innovation through its Incubation and Entrepreneurship Centre, The New College continues to be a leading centre of learning in South India.



ABOUT THE DEPARTMENT

The PG & Research Department of Chemistry, established in 1951, is one of the premier centres of learning at The New College. Upgraded to the postgraduate level in 1972 and to a research department in 1976, it is today the largest science department of the college.

With 22 dedicated faculty members (20 with Ph.D. 2 NET and 5 SET qualified), the department offers UG, PG and Ph.D. programmes and currently has over 183 students on roll.

The department has introduced revised syllabi under autonomy, along with internship and project components for PG students. It conducts skill-based and entrepreneurship-oriented value-added courses, organizes industrial visits and has MoUs with two leather industries.

Research is a key strength, with 8 recognized guides, 54 Ph.D. scholars produced and 268+ publications in reputed journals. The department is supported by a well-equipped library and received ₹30 lakhs under DST-FIST for infrastructure enhancement.

In addition to academics, the department is active in hosting seminars, workshops and conferences along with cultural and sports events such as NEWTRON and NEW CHEM SPORTS, ensuring holistic development of students.



NATIONAL SCIENTIFIC ADVISORY COMMITTEE



Prof. Vijayamohanan K Pillai

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National Fellow (SERB)
Indian Institute of Science Education and
Research (IISER), Tirupati.

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Vice-President, Indian Society of Analytical
Scientists.

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ORGANIZING COMMITTEE

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OFFICIATING SECRETARY

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CONVENER, THE NEW COLLEGE

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Dr. M. A. MOHAMED MUSTHAFA

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PG & RESEARCH DEPARTMENT OF CHEMISTRY

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Mr. A. K. Raees Ahmed

Mr. Z. Waseem Basha





KEYNOTE SPEAKERS



**Dr. S. Muhammadhu
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**Prof. Sivakumar
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Director, Research and
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Sri Chandrasekharendra
Sarawathi Viswa Mahavidyala
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**Dr. Mohammed
Farhan Katheem**

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CALL FOR ABSTRACTS & ORIGINAL RESEARCH PAPERS

- Abstracts and full length original unpublished works for oral and poster presentations are invited.
- Best oral and poster presentations will carry cash awards.

Registration Details

CATEGORY	AMOUNT
PG Students & Research Scholars (Oral Presentation / Poster Presentation)	Rs. 500
Academician and Scientists	Rs. 750
Industrial Experts	Rs. 1000
Only Participation	Rs. 500

IMPORTANT DATES

Registration opens	06-10-2025
Registration closes	20-12-2025
Abstract submission	25-12-2025

CLICK HERE TO REGISTER

Registration Form Link - <https://forms.gle/7uHs5eryr8KtMLju6>

Registration Fee Includes:

- Registration Kit
- Certificates
- High Tea
- Lunch
- Accommodation
(for Outstation Participants only)



PAYMENT DETAILS

UPI ID

PPQR01.TLPSZY@iob

BANK DETAILS

Bank Name	INDIAN OVERSEAS BANK
Bank A/C Name	THE PRINCIPAL THE NEW COLLEGE
Account No.	033401000050399
IFSC Code	IOBA0000334
Bank Branch	PETERS ROAD – ROYAPETTAH – CHENNAI

SCAN HERE



REGISTRATION

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PAYMENT

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ABSTRACT
SUBMISSION

After the payment is made, the participants need to share their payment receipt to the following email id

✉ chemistry-events@thenewcollege.edu.in

Address for Correspondence:

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