



SINCE 1881

THE AMERICAN COLLEGE

An Autonomous Institution Affiliated to the Madurai Kamaraj University
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Madurai-625002

NATIONAL CONFERENCE ON

Frontiers in Chemical Sciences-Innovations & Impact

NCFCSII - 2025

September 12 & 13, 2025



Prof. Edgar Martin Flint
Pioneer & Founding Head



Postgraduate & Research Department of Chemistry

PROGRAM SCHEDULE

Day - 1 (12-09-2025)

Time	Event	Resource person
8.30 - 9.30 AM	Registration	
9.30 - 10.30 AM	Inauguration	
	Welcome Address	Dr. J. Helen Ratna Monica Head, PG & Research Department of Chemistry
	Lighting the lamp	Dignitaries on the stage
	Inaugural address	Dr. J. Paul Jayakar Principal & Secretary, The American College
	Vote of thanks	Dr. B. Kirthika Rani Organizing Secretary, NCFCSII-2025
10.30 - 11.00 AM	Tea break and photo session	
11.00 - 12.00 PM	Invited Talk-1	Chair Person : Prof. C. David Jeyaraj Resource Person: Dr. Basker Sundararaju Professor, IIT Kanpur. Topic: Sustainable Catalysis: Challenges and Opportunities.
12.00 - 1.00 PM	Invited Talk-2	Chair Person : Prof. N. Rajaram Resource Person: Dr. Apparao Draksharapu Associate Professor, IIT Kanpur. Topic: Beyond the Oxidation State Ceiling: High Valent Nickel Chemistry.
1.00 - 2.30 PM	Lunch Break	
2.30 - 3.30 PM	Invited Talk-3	Chair Person : Prof. Mathew John Resource Person: Dr. Srinivas Dharavath Associate Professor, IIT Kanpur. Topic: Next-Generation High Energy Density Materials (HCDMs).
3.30 - 3.45 PM	Tea Break	
3.45 - 4.45 PM	Oral/Poster Presentation	

PROGRAM SCHEDULE

Day - 2 (13-09-2025)

Time	Event	Resource person
9.30 - 9.45 AM	Prayer Song	
9.45 - 10.45 AM	Invited Talk-4	<p>Chair Person : Prof. T. K. Ganesan Resource Person: Dr. Paramasivan Rajaiah Head, Division of Molecular Biology and Diagnostics, ICMR. <i>Topic: A Journey from Idea to Innovation: special reference to Vector borne diseases prevention and control.</i></p>
10.45 - 11.00 AM	Tea Break	
11.00 - 12.00 PM	Invited Talk-5	<p>Chair Person : Prof. C. A. Pradeep Resource Person: Dr. Parthasarathi Subramanian Assistant Professor, IIT Kanpur. <i>Topic: A collective Total Synthesis of Aculeatin A, B, D, E, F, and Design and Synthesis of Aculeatin Oxo-analogues.</i></p>
12.00 - 1.00 PM	Valedictory	
	Welcome Address	Dr. S. Jemima Balaselvi Juliana Head, UG Department of Chemistry
	Valedictory Address	Dr. M Beaula Ruby Kamalam Bursar, The American College
	Certificate Distribution	Dr. S. C. B. Samuel Anbu Selvan Vice-Principal, The American College.
	Vote of Thanks	Dr. M. Vathanaruba PG (SF) Coordinator, Department of Chemistry
	Lunch	

About the College

The American College, Madurai is one of the oldest and most prestigious institutions of higher education in South India, with a rich heritage that spans over a century. Established in 1881 by American missionaries, the college has consistently upheld the values of academic excellence, character formation, and social responsibility. Affiliated to Madurai Kamaraj University, college offers 33 UG and 21 PG courses in the main campus along with 8 UG and 4 PG vocational degree programs. In addition there are 15 UG and 3 PG programs at the satellite campus and research programs across various disciplines, blending tradition with modernity in education. The scenic campus, equipped with state-of-the-art facilities, a well-stocked library, advanced laboratories, and vibrant student organizations, provides an ideal environment for learning and growth. The college also has strong ties with numerous international, state, and central institutions, as well as private industries, enhancing students' learning and career prospects.



Main Hall

About the Department

Established in 1913 the department of chemistry is a hub of academic excellence and innovation. Renowned for its commitment to excellence in teaching, research, and innovation, the department offers B.Sc., M.Sc. and Ph.D programs, fostering a dynamic academic environment for advanced learning and research. The department is well-equipped with modern laboratories, sophisticated instruments, and computational facilities, enabling students and researchers to engage in cutting-edge scientific work. Its research activities span diverse areas such as organic synthesis, physical chemistry, inorganic chemistry, environmental chemistry, nanoscience, and green chemistry, contributing significantly to both theoretical and applied sciences. Guided by a team of highly qualified and dedicated faculty members, the department emphasizes innovative pedagogy, interdisciplinary research, and industry-academia collaboration. The department has produced numerous research publications in reputed journals, patents, and funded projects, making it a recognized centre for chemical education and research in South India. The department continues to uphold academic rigor while inspiring students to become leaders in research, industry, and academia. Alumni of the department occupy pivotal positions at various institutions and organizations, in India and abroad.



Stoffer Hall

About the Conference

The National Conference on Frontier Chemical Sciences – Innovation and Impact (NCFCSII-2025), organized by the Department of Chemistry, aims to spotlight the dynamic and ever-evolving landscape of chemical sciences. This national-level conference serves as a platform for researchers, academicians, industry professionals, and students to come together and explore the latest advancements, technological applications, and innovative methodologies shaping the future of Chemistry. In an era where scientific progress is closely tied to societal and environmental well-being, this conference emphasizes not only the development of new chemical technologies but also their broader impact on sustainability, public health, and social welfare. From pioneering research to transformative applications, the sessions will delve into how chemical sciences can drive positive change across various domains.

The theme of the conference underscores the importance of:

- Innovation as a catalyst for discovery,
- Collaboration as a bridge for interdisciplinary integration,
- Adaptability and continuous improvement as keys to overcoming scientific challenges and unlocking new frontiers.

NCFCSII-2025 envisions fostering a scientific dialogue that contributes to both academic enrichment and real-world problem-solving. It is a celebration of knowledge, resilience, and the shared pursuit of excellence in chemical sciences.