

INTERNATIONAL CONFERENCE ON

EMERGING FRONTIERS IN CHEMICAL SCIENCES

EFCS-2025

26 – 27 SEPTEMBER 2025

INAUGURATION

Padma Shri Prof. K. N. Ganesh

SERB National Science Chair

Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),
Bengaluru, India

Organised by



POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY

FAROOK COLLEGE (AUTONOMOUS)

P.O. Farook College, Kozhikode, Kerala, India- 673 632.

Aided by Govt. of Kerala and Affiliated to the University of Calicut

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About the Institution

Farook College, established in 1948, has been serving the nation and the community for the last several decades. It pioneered efforts to transform the region's educational landscape. Initially affiliated with Madras University, it later became part of Kerala and Calicut Universities. Founded by the Rouzathul Uloom Association, it pioneered efforts to transform the region's educational landscape. Initially affiliated with Madras University, it later became part of Kerala and Calicut Universities. Today, Farook is the largest residential post-graduate institution in Kerala, offering 22 undergraduate and 16 post-graduate programs, including 11 research centers.

The College has been re-accredited with 'A++' Grade in its most recent 2025 NAAC assessment. The college offers programmes in various disciplines at the undergraduate and postgraduate levels. Apart from this, several departments in the college offer research programmes as well.

Postgraduate and Research Department of Chemistry

The Postgraduate and Research Department of Chemistry is one of the most prestigious departments of the college. The department was established in the year 1957, with the undergraduate programme. Today, it also offers postgraduate and doctoral programmes in a wide range of disciplines. The department has contributed great luminaries to the world of science. The department regularly organizes events and initiatives that bridge academia and society.

Emerging Frontiers in Chemical Sciences (EFCS)

"Emerging Frontiers in Chemical Sciences", an Annual Conference Series for the benefit of the region, was launched in **2017**, as International and National events in alternate years, with an endowment from **Prof. T. Pradeep** and generous contributions by **Dr. Santosh R. Nandan**, prominent alumni of the college.

EFCS 2017: The series commenced with its inaugural conference, inaugurated by **Prof. C. N. R. Rao**, which set a distinguished benchmark for the years ahead. The event witnessed the participation of eminent academicians and leading researchers from across the world, creating a platform for the regional scientific community to engage with pioneers in the field of chemical sciences. The scientific programme included plenary and invited lectures by Prof. E. D. Jemmis, Prof. K. Vijayamohanan Pillai, Prof. Thomas Colacot, Prof. Shigeyuki Yagi, Prof. A. Ajayaghosh, Prof. Vasudevan Biju, Prof. I. N. N. Namboothiri, Prof. Kana M. Sureshan, Prof. H. Ila, Prof. Subi Jacob George, and several others, who presented their latest research and perspectives. A significant feature of the conference was the active involvement of young researchers, with more than 60 papers presented during the sessions. The event not only highlighted emerging frontiers in chemical sciences but also fostered academic exchange, collaboration, and mentorship, marking a memorable beginning for the EFCS series.

EFCS 2018: The First National Conference in the series held during 23-24 November 2018 was inaugurated by **Prof. S. Sivaram**. The conference provided a platform for the exchange of ideas for researchers from Industry and Academia. Eminent researchers such as Prof. Sabu Thomas, Prof. R. B. Sunoj, Prof. A. C. Bhasikkuttan, Prof. Mahesh Hariharan, Dr. B. L. V. Prasad and others from IITs, IISERs and other prominent institutes showcased findings of their research.

EFCS 2019: The third event in the series, Second International Conference, held during 13-15 December 2019 was inaugurated by **Prof. P. Balaram**. The conference was an opportunity for the young researchers in the region to experience the cutting-edge research in the field of chemical sciences. The event brought together great minds like Prof. Graham R. Cooks, Prof. Thomas Thundat, Prof. T. P. Radhakrishnan, Prof. C. Subramaniam, Prof. K. V. Radhakrishnan and Dr. Vinod C. Prabhakaran. There were poster sessions and special sessions showcasing the work of young researchers.

EFCS 2020: The fourth EFCS was held in the online mode in December 4-5, 2020. This was inaugurated by **Prof. Gautam R. Desiraju**. Prof. Shobhana Narasimhan, Prof. Satish Patil, Prof. Rajakumar Balla, Dr. Shibdas Banerjee, Dr. M. M. Shajumon and others from various prestigious institutions were speakers.

EFCS 2021: The fifth EFCS and the third international conference in this series, was held during 29 - 31 October, 2021. inaugurated by **Prof. Narayanasami Sathyamurthy**. The event brought together great minds like Prof. D. D. Sarma, Prof. Robin Ras, Prof. Tatsuya Tsukuda, Prof. A. Sampath, Prof. Asha S.K, Prof. Angshuman Nag, and others from various prestigious institutions.

EFCS 2022: The sixth EFCS and third national conference in this series held during 19-20 January 2023, was inaugurated by **Prof. S. Chandrasekaran**. Dr Ashish Kishore Lele, Dr. Neena Susan John, Prof. Arun Mohan Islor, Prof. Prakash P. Neelakandan, Dr. Subinoy Rana, Dr. Susmita De, Dr. Jayaramulu Kolleboyina, Dr. Ananya Baksi and others were the speakers at the conference.

EFCS 2023: The seventh EFCS and fourth international conference in this series held during 19 - 21 December, 2023, was inaugurated by **Prof. Francesco Stellacci**. Prof. Tomas Base, Prof. Rahul Raveendran Nair, Prof. Nonappa Nonappa, Prof. G. U. Kulkarni, Prof. G. Ranga Rao, Prof. R. Murugavel, Prof. Sebastian Peter, Prof. Sukhendu Mandal, Prof. G. Anilkumar, and others from various prestigious institutions were the speakers at the conference.

EFCS 2024: The eighth EFCS (Fourth National Conference in the series) was held on 2-3 December 2024 at Farook College (Autonomous). It was inaugurated by **Prof. G. D. Yadav**, Former Vice-Chancellor of the Institute of Chemical Technology (ICT), Mumbai. The conference featured engaging scientific presentations and recognition in the form of awards: **Dr. K. K. Devadasan**, retired faculty member of Malabar Christian College, received the **Sulochana Nandan EFCS Lifetime Achievement Award**—a ₹1,00,000 cash award presented in memory of Sulochana Nandan, mother of alumnus Dr. Santosh R. Nandan. The **Young Scientist Award**, carrying a ₹50,000 cash prize in memory of retired professors Prof. P. A. Jacob and Prof. P. Ummer, was awarded to **Dr. Reji Thomas**, Assistant Professor in the Department of Chemistry at Farook College.

Eminent researchers including Prof. Tapas Kumar Maji, Prof. Ayan Datta, Dr. Surendran K. P., and Prof. Sandhya K. Y., along with scientists from IITs, IISERs, and other premier institutes, presented their recent findings on emerging trends in chemistry.

Prof. T. Pradeep was a speaker at all these conferences.

EFCS also felicitated prominent people who contributed to chemistry and allied sciences in the region.

SPEAKERS

Prof. K. N. Ganesh

Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru

Prof. T. Pradeep

Indian Institute of Technology Madras

Prof. De-en Jiang

Vanderbilt University, USA

Prof. Kenneth Knappenberger Jr

Pennsylvania State University, USA

Prof. Stefan Vajda

Czech Academy of Sciences, Czech Republic

Dr. Premkumar Senguttuvan

Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru

Dr. Suresh C. H

KSCSTE SRIBS, Kottayam

Dr. Sayanti Chatterjee

Indian Institute of Technology Roorkee

Prof. Vinesh Vijayan

Indian Institute of Science Education and Research Thiruvananthapuram

Dr. S. Santhosh Babu

National Chemical Laboratory, Pune

Dr. Debarati Chatterjee

Indian Institute of Technology Palakkad

Dr. M. Sankaralingam

National Institute of Technology Calicut

Dr. Santosh R. Nandan

Ambernath Organics Pvt. Ltd., Mumbai

Dr. Manoj Mathews

St. Joseph's College, Devagiri, Kozhikode

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Former Vice President, KSCSTE

Prof. E. P. Imbichikoya

Former Principal, Farook College

Adv. M. Mohamed

Former Manager, Farook College, and Alumnus

Dr. Santosh R. Nandan

Director, Ambernath Organics Pvt. Ltd., Mumbai. [Alumnus]

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Member of the Legislative Assembly, Former Head, Dept. of Sociology, Farook College

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Prof. P. A. Subha

Former head, Department of Physics, Farook College

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Department of Chemistry, Farook College

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Dr. Reji Thomas, Assistant Professor, Department of Chemistry, Farook College

Mr. Shanavas Yoosuf, Assistant Professor, Department of Chemistry, Farook College

Ms. Sumayya K, Assistant Professor, Department of Chemistry, Farook College

Dr. P. K. Sajith, Assistant Professor, Department of Chemistry, Farook College

Dr. Muhammed Yoosuf, Assistant Professor, Department of Chemistry, Farook College

Mr. Mohammed Farhan K. T., Assistant Professor, Department of Chemistry, Farook College

Ms. Rajeena C. K., Assistant Professor, Department of Chemistry, Farook College

Ms. Ardra K., Assistant Professor, Department of Chemistry, Farook College

Contact:

Mr. Mohammed Ziyad P. A. +91 9747616705

Dr. A. P. Kavitha +91 80868 27711

Dr. T. Shalina Begum +91 94472 18797

Dr. P. K. Sajith +91 93492 80803

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