

**International Conference
Emerging Frontiers in Chemical Sciences
EFCS-2025**

 **September 26-27, 2025**

Organized by
**PG and Research Department of Chemistry
Farook College (Autonomous), Kerala, India**

Programme Schedule

Day 1: September 26, Friday

Venue: Parisons Hall

REGISTRATION

08:30 AM – 09:00 AM *Venue: Parisons Hall*

INAUGURAL CEREMONY

09:00 AM – 09:40 AM Chief Guest: **Padma Shri Prof. K. N. Ganesh**
SERB National Science Chair, JNCASR, Bengaluru

SESSION I

Chair: **Dr. Shibu E. S.**, *Assistant Professor, Department of Nanoscience and Technology, University of Calicut*

Nucleic Acid Therapeutics and Peptide Nucleic Acids

09:45 AM – 10:25 AM Speaker: **Padma Shri Prof. K. N. Ganesh**
SERB National Science Chair, JNCASR, Bengaluru

Surface Science of Clathrate Hydrates

10:25 AM – 11:05 AM Speaker: **Padma Shri Prof. T. Pradeep**
IIT Madras

CONFERENCE PHOTO SESSION

11:05 AM – 11:15 AM *In front of the Administrative Block*

TEA BREAK

11:15 AM – 11:30 AM *Refreshment Area – Yousef Al Saeer Auditorium*

SESSION II

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

State-resolved spectroscopy and dynamics of atomically precise metal clusters

11:30 AM – 12:05 PM Speaker: **Prof. Kenneth Knappenberger Jr**
Pennsylvania State University, USA

A Novel Process to Manufacture 7-alkyl 2H-benzo[b][1,4]dioxepin-3(4H)-ones

12:05 PM – 12:40 PM Speaker: **Dr. Santosh R Nandan**
Ambernath Organics Pvt. Ltd., Mumbai

LUNCH BREAK

12:40 PM – 02:00 PM *Yousef Al Saeer Auditorium*

SESSION III

Chair: **Dr. Binitha N N**, Professor, Department of Chemistry, University of Calicut

Electrostatic Landscapes that Predict Chemistry: Aromaticity, Catalysis, and Beyond

02:00 PM – 02:40 PM Speaker: **Dr. C. H. Suresh**
KSCSTE SRIBS, Kottayam, Kerala

Amorphous Halides as Solid Electrolytes for All Solid-State Lithium Batteries

02:40 PM – 03:20 PM Speaker: **Prof. De-en Jiang**
Vanderbilt University, USA

TEA BREAK

03:20 PM – 03:40 PM *Refreshment Area – Yousef Al Saeer Auditorium*

SESSION IV

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

Structural Insights into CPEB3 Condensate Formation and Its Potential as a Catalytic Platform

03:40 PM – 04:20 PM Speaker: **Prof. Vinesh Vijayan**
IISER Thiruvananthapuram

Copper Complexes as Biomimetic Models for Oxidase Enzyme

04:20 AM – 05:10 PM Speaker: **Dr. Muniyandi Sankaralingam**
NIT Calicut

SESSION V

Poster Presentations

05:10 PM – 06:30 PM *Venue: Yousef Al Saeer Auditorium*

CONFERENCE DINNER

07:00 PM – 09:30 PM *Venue: Hotel Copper Folia*

Day 2: September 27, Saturday
Venue: Parisons Hall

SESSION VI

Chair: **Prof. Mohamed Shahin Thayyil**, Professor, Department of Physics, University of Calicut

**Molecular Nanographenes to Graphene Nanoribbons:
Expanding the Landscape of 2D Carbon Materials**

09:00 AM – 09:40 AM Speaker: **Dr. S. Santhosh Babu**
National Chemical Laboratory, Pune

**Subnanometer to Nanometer Mono- and Bimetallic Clusters in
CO Oxidation: Illustration of the Effect of Cluster Size, Atomic
Composition, Support and Reaction Conditions in
Nanocatalysis**

09:40 AM – 10:20 AM Speaker: **Prof. Stefan Vajda**
Czech Academy of Sciences, Czech Republic

**Rational Design of NASICON Frameworks for Fast Charging and
Long-lasting Sodium-ion Batteries**

10:20 AM – 11:00 AM Speaker: **Dr. Premkumar Senguttuvan**
JNCASR, Bengaluru

TEA BREAK

11:00 AM – 11:20 AM Refreshment Area – Yousef Al Saeer Auditorium

SESSION VII

Chair: **Dr. Rafeeqe P**, Assistant Professor, Department of Chemistry, Farook College

**A Journey Through Molecular Catalysis: Reaction Design for
Biomimetic Reactivity and Beyond....**

11:20 AM – 12:00 PM Speaker: **Dr. Sayanti Chatterjee**
IIT Roorkee

**Oxidative N-Terminus Functionalization of Amino Acids and
Peptides**

12:00 PM – 12:40 PM Speaker: **Dr. Baby Vishwambharan**
NIT Trichy

LUNCH BREAK

12:40 PM – 01:30 PM Yousef Al Saeer Auditorium

SESSION VIII

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

Photo-responsive small molecules for the design and control of supramolecular chiral systems

01:30 PM – 02:10 PM Speaker: **Dr. Manoj Mathews**
St. Joseph's College, Devagiri, Kerala

ACS Resources to advance careers in STEM

02:10 PM – 02:25 PM Speaker: **Rajesh Parishwad**
Senior Associate Director, Global Strategy for Society Programs, American Chemical Society

SESSION VIII

Chair: Mr. Midhun Shah, Assistant Professor, Department of Physics, Farook College

Oral Presentations

02:25 PM – 04:00 PM *Venue: Parsons Hall*

VALEDICTORY SESSION

04:00 PM – 04:30 PM *Venue: Parsons Hall*



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