



Department of Chemistry
College of Engineering Trivandrum (CET)
Thiruvananthapuram

Organizes

Two Day National Seminar on
Emerging Trends in Chemical Science and Engineering

26th & 27th February 2021, Online Mode

Sponsored by
Directorate of Technical Education, Kerala
Government of Kerala

Thrust Areas:

- ❖ **Chemical and Bio-sensors**
- ❖ **Wastewater Treatment**
- ❖ **Optoelectronics and Devices**
- ❖ **Materials Chemistry**

“You put the technology out there and it can be used for ill or for good.

Technology is morally neutral; it’s how we use technology that determines everything”

John B Goodenough
Nobel Laureate in Chemistry 2019

Dear Sir/Madam

The Department of Chemistry, College of Engineering Trivandrum (CET), Thiruvananthapuram organizes *Two Day National Seminar* (online mode) on **Emerging Trends in Chemical Science and Engineering**, sponsored by **Directorate of Technical Education Kerala, Government of Kerala, Thiruvananthapuram on 26th & 27th, February 2021**. The theme of this seminar is frontiers in chemistry and applied science for further generations. It brings researchers together from a broad range of research backgrounds across several career stages of both academia and industry to share the newest research ideas and findings in the field of Chemistry and Engineering. This seminar provides an opportunity for the delegates to discuss their research with the aim to stimulate future industry and academic collaborations to solve the human problems related to food, water, energy, and healthcare. This is a world shaped by the extraordinary developments in science and technology in which chemistry may need to be increasingly interdisciplinary, which will result in opportunities for innovation. Chemistry will help move the digital revolution forward.

All are cordially invited.

Dr. Jiji C.V.
Principal, CET

Dr. Rani Pavithran
*Organizing Secretary and Head,
Department of Chemistry, CET*

For Registration: <https://forms.gle/Van62e1zR3t29oSG7>

Registration is free for students

Registration fee for Researchers and Faculties are Rs. 100 and Rs. 200 respectively.

Researchers get an opportunity to present their work in the seminar.

Important dates:

Registration starts on 15.02.2021 and ends on 25.02.2021

Abstracts may be sent to hod.ch@cet.ac.in on or before **23.02.2021**

For further details, contact:

Dr. Gowri Sreedevi K. C.
Ph:8848451291

Dr. Bringle C. Das
Ph: 7034667401

Dr. Dhanya S. R.
Ph:9946289791

Emerging Trends in Chemical Science and Engineering

Two Day National Seminar

Day 1, 26.02.2021(Friday)

9.15 am - 9.30 am

: Joining time

9.30 am - 9.40 am

Welcome Address

: Dr. Rani Pavithran

Organizing Secretary

9.40 am - 9.50 am

Presidential Address: Dr. Jiji C.V.

Principal, CET



9.50 am - 10.50 am

Inauguration & Keynote Address: Dr. M. L. P. Reddy, FAPSc
Chief Scientist (Rtd.), CSIR-NIIST, Govt. of India, Thiruvananthapuram

“Light Emitting Metal Ion Based Molecular Materials as Optical probes in Biosensing and Bioimaging Application”

10.50 am - 11.20 am

Felicitations

: Dr. Sindhu G.

Dean Research, CET

: Dr. S. Jayakumar

Dean, PG, CET

: Dr. M. Abdul Nizar

Dean, UG, CET

11.20 am - 11.30 am : Break

Invited Talks

Chair

: Dr. Gowri Sreedevi K. C.

Assistant Professor, Department of Chemistry,
CET

11.30 am - 12.30 pm

Speaker 1: Dr. Joshy Joseph

Principal Scientist, Photoscience and Photonics Division, CSIR-NIIST,
Govt. of India, Thiruvananthapuram

“Fundamentals of NMR spectroscopy”



12.30 pm - 1.30 pm: Break

1.30 pm - 2.30 pm

Speaker 2: Dr. Bibin John

Scientist SF, Energy Systems Division, VSSC, Thiruvananthapuram

“Advances in Li-ion Batteries”



2.30 pm - 3.30 pm

Speaker 3: Dr. Muhammed Arif M.

Associate Professor, Department of Chemistry, CET

“Fundamentals of Stereochemistry”

3.30 pm - 4.00 pm

: Oral Presentations of Researchers

Emerging Trends in Chemical Science and Engineering

Two Day National Seminar

Day 2, 27.02.2021(Saturday)

9.15 am - 9.30 am

: Joining time

Invited Talks

Chair

: Dr. Dhanya S. R.

Assistant Professor, Department of Chemistry,
CET

9.30 am-10.30 am

Speaker 1: Dr. Krishnakumar B.

Principal Scientist, Environmental Technology Division, CSIR-NIIST,
Govt. of India, Thiruvananthapuram

“Onsite Wastewater Treatment cum Resource Recovery Systems”



10.30 am-11.30 am

Speaker 2: Dr. Sujith Kalluri

Assistant Professor, Department of Electronics and Communication
Engineering, SRM University-Ap, Andhra Pradesh

***“Footprint of Micro/Nano Engineering in Energy Storage
Applications”***

11.30 am - 11.40 am: Break

11.40 am-12.40 pm

Speaker 3: Ms. Temina Mary Robert

Scientist/Engineer SE, Polymers and Special Chemicals Division, VSSC,
Thiruvananthapuram

“Speciality Polymers for Aerospace Applications”



12.40 pm – 1.30 pm: Break

1.30 pm – 2.30 pm

: Oral Presentations of Researchers

2.30 pm - 3.30 pm

Feedback & Concluding Session

Chair

: Dr. Bringle C. Das

Assistant Professor, Department of
Chemistry, CET

Vote of Thanks

: Dr. Rani Pavithran

Organizing Secretary

Organizing Committee:

Dr. Jiji C.V., Principal, CET

Dr. Sindhu G., Dean, Research, CET

Dr. Jayakumar S., Dean, PG, CET

Dr. Abdul Nizar M., Dean, UG, CET

Dr. Muhammad Arif M., Associate Professor, Department of Chemistry, CET

Dr. Gowri Sreedevi K. C., Assistant Professor, Department of Chemistry, CET

Dr. Bringle C. Das, Assistant Professor, Department of Chemistry, CET

Dr. Dhanya S. R., Assistant Professor, Department of Chemistry, CET

Dr. Rani Pavithran, Assistant Professor & Head, Department of Chemistry, CET (Organizing Secretary)

About the Institute

The College of Engineering Trivandrum was established in 1939 as the first Engineering College in the then Travancore State. The first classes were started on 3rd July 1939 during the reign of the Travancore King, Sri Chithira Thirunal Balarama Varma. Initially the College was housed in the former office and bungalow of the Chief Engineer (present PMG Office). Started as a constituent College of Travancore University, the College had an initial intake of 21 students each for Degree and Diploma courses in Civil, Mechanical and Electrical branches. When the Directorate of Technical Education was established in the late fifties, the College administration came under the control of the Government of Kerala. The College was shifted to the present sprawling 125 acres in 1960. Over the years, the intake of students increased and as of now with eight full-fledged departments offering eight undergraduate, 27 postgraduate and doctoral programmes under the APJ Abdul Kalam Technological University, the College has around 4500 students, 311 teaching staff and 290 non-teaching staff. The College ranks among the top in the country in the quality of its graduates and the number of top jobs held by its graduates. With such an eminence in the academic and curricular activities, the College is the most sought after Engineering College by the aspirants of Engineering degree programmes in the state.

Vision: *National Level Excellence and International Visibility in Every facet of Engineering Education.*

Mission:

- *To facilitate quality transformative education in Engineering and Management*
- *To foster innovations in Technology and its application for meeting global challenges*
- *To pursue and disseminate Quality Research*
- *To equip, enrich and transform students to be Responsible Professionals for better service to humanity*