



Organic Electronics- Molecules to Devices

Dr Ratheesh K Vijayaraghavan

Associate Professor, Department of Chemical Sciences, IISER Kolkata

Tea break : 2:45 pm - 3:00 pm

Lecture 3 : 3:00 pm -4:15 pm

Functional Materials and Plasma Technologies

Dr Rajani K Vijayaraghavan

Assistant Professor, School of Electronic Engineering, Dublin City University, Glasnevin, Ireland

17th December 2024, Tuesday

Lecture 4 : 9:30 am - 11:00 am

NHCs and SACs Based on 2-D Materials

Towards CO Activation

Dr. Jayasree E G

Professor, Department of Applied Chemistry, Cochin University of Science & Technology, Kochi

Tea break : 11:00 am- 11:15 am

Lecture 5 : 11:15 am -12:45 pm
Light - Induced Self - Assembly in Precision Noble Metal Nanoclusters : New Directions and Applications

Dr Shibu E S

Assistant Professor, Department of Nanoscience and Technology, University of Calicut, Thenhipalam

Lunch break : 12:45 pm -1:45 pm

Paper Presentations : 1:45 pm -3:00 pm

Valedictory Function : 3:00 pm

ORGANIZING COMMITTEE

Head of the Institution:

Dr. Sr. Siji P D

Principal, St. Joseph's College
(Autonomous) Irinjalakuda

Head of the Department :

Dr. Deena Antony C

Coordinator:

Dr. Sini Varghese C

Executive Members

Dr. Binsy Varghese V, Dr. Sr. Mini Thomas,
Dr. Bibitha Joseph, Dr. Manoj A L,
Dr. Vidhya Thomas K, Dr. Della Therese Davis,
Dr. Sr. Nisha George, Ms. Heena Peethambaran,
Ms. Anooa Treesa

Communications to

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INTERNATIONAL CONFERENCE ON **INTERDISCIPLINARY RESEARCH IN CHEMICAL SCIENCES: ADVANCED MATERIALS FOR ENERGY AND ENVIRONMENT**

16th & 17th DECEMBER 2024



ORGANIZED BY
**RESEARCH & PG
DEPARTMENT OF CHEMISTRY**



ST. JOSEPH'S COLLEGE (AUTONOMOUS)
IRINJALAKUDA,
NAAC A⁺⁺ GRADE, COLLEGE WITH POTENTIAL FOR EXCELLENCE

Co-Sponsored by



Council of Scientific and Industrial Research (CSIR)
New Delhi, Government of India

Dear Students and Colleagues,

On behalf of the organizing committee it is our pleasure to invite you to the International Conference on “Interdisciplinary Research in Chemical Sciences: Advanced Materials for Energy and Environment” which will be held on 16th & 17th December, 2024. We request and hope for your participation.

with best regards,

Dr. Sr. Siji P D
(Principal)

Dr. Deena Antony C
(HOD)

Dr. Sini Varghese C
(Coordinator)

Date: 16th & 17th December 2024
Venue: Padmabhushan Fr. Gabriel Seminar Hall,
St. Joseph's College
(Autonomous) Irinjalakuda

In honour of



Dr. Deena Antony C



Dr. Binsy Varghese V

*30 Years of meritorious
and selfless service*

About the Organizers

St. Joseph's College (Autonomous) Irinjalakuda is a women's college, affiliated to the University of Calicut, founded by the Sisters of the Congregation of the Holy Family in 1964. Since its inception, the college has been trying to realize the vision of a better world of ideal families through enlightened and empowered women. The college achieved the status of Autonomy in March 2016 and status of

Potential for Excellence by the UGC in April 2016. The College is reaccredited with A⁺⁺ grade (3.66 CGPA) in the fourth cycle in 2023 by the National Assessment and Accreditation Council (NAAC). In 2024, the college secured 85th position in NIRF ranking.

Department of Chemistry was established in 1964 with the very inception of the college. BSc Degree Programme and MSc Degree Programme were started in 1967 and 1995 respectively. We own the fame of first ever PG Chemistry department in a women's college, affiliated to the University of Calicut. The department was upgraded to the level of a recognized research centre of Calicut University in 2009. Presently, the Research & PG Department of Chemistry at St. Joseph's College offers BSc., MSc. and PhD. programmes in Chemistry and three value added courses CISCOM, Gemology & Medical Coding.

About CSIR

The Council of Scientific & Industrial Research (CSIR), known for its cutting edge R&D knowledge base in diverse S&T areas, is a contemporary R&D organization. CSIR covers a wide spectrum of science and technology—from oceanography, geophysics, chemicals, drugs, genomics, biotechnology and nanotechnology to mining, aeronautics, instrumentation, environmental engineering and information technology. It provides significant technological intervention in many areas concerning societal efforts, which include environment, health, drinking water, food, housing, energy, farm and non-farm sectors. The vision of CSIR is “Enhance quality of life of the citizens of India through innovative Science and Technology, globally competitive R&D, by developing sustainable solutions and capacity building to fulfil dream of Atmanirbhar Bharat”.

Conferences focused on interdisciplinary research in advanced materials for energy and the environment play a vital role in promoting scientific advancement. These gatherings facilitate the exchange of ideas among researchers, industry experts, and policy makers, fostering collaboration across various disciplines. Participants can share their latest findings and technologies, enhancing collective understanding and sparking new ideas. Sessions can equip attendees with new skills and methodologies, promoting the

application of advanced materials in real-world scenarios. This conference provides an opportunity for the young researchers and post graduate students to listen to the experts from various chemical research areas. Also, the conference is an excellent occasion for the researchers to showcase their works to the scientific community. Passionate students get great opportunity to realize how chemical science is serving the society.

Registration

Faculty, research scholars and post graduate students can participate in the seminar. Interested participants are requested to confirm their participation through e-mail: chemistry@stjosephs.edu.in on or before 14th December 2024. Please mention your official name, designation, address (office & residence), e-mail ID and contact number.

Registration fees : Rs. 200/- (Students), Rs. 500/- (Research Scholars and Faculty).

Oral /Poster Presentations

We invite the participants to apply for an oral or poster presentation. The interested researchers and students may send their soft copy of full length article with abstract (typed in MS word A4 format of maximum 3 pages, times new roman, 12 points with line spacing 1.5) to chemistry@stjosephs.edu.in on or before 14th December 2024.

PROGRAMME SCHEDULE

16th December 2024, Monday

Registration	: 9:00 am – 10:00 am
Inauguration &	: 10:00 am – 10:45 am
Keynote address	
Dr. S. Sugunan	
Professor Rtd CUSAT	
Adjunct Professor KUFOS	
Tea break	: 10:45 am – 11:00 am
Lecture 1	: 11:00 am - 12:30 pm
<i>Introduction to Statistical Mechanics</i>	
Dr. S. Sugunan	
Lunch break	: 12:30 pm – 1:30 pm
Lecture 2	: 1:30 pm- 2:45 pm