



INTERNATIONAL CONFERENCE ON  
MATERIALS FOR THE MILLENNIUM

# MATCON 2023

12-14<sup>th</sup>  
JANUARY 2023

Organized by,  
Department of Applied Chemistry,  
Cochin University of Science & Technology  
Kochi 682022, India



Supported By



Science and Engineering Research Board (SERB)  
Department of Science and Technology (DST)  
Govt. of India



DEPARTMENT OF BIOTECHNOLOGY  
Ministry of Science & Technology  
Government of India



## THEME AREAS

Sensors and Biosensors

Catalysis

Computational Chemistry

Inorganic and Organometallic Materials

Nano materials

Energy & Photovoltaics

Functional Materials

Organic Materials

Polymer materials, blends and composites

Artificial Photosynthesis

Materials for non-conventional

energy applications

Smart materials and systems

A collection of laboratory glassware including a beaker, a graduated cylinder, and a test tube, arranged on a white surface.

### Venue

Seminar Complex,  
Thrikkakara Campus,  
Cochin University of Science &  
Technology, Kochi-22

### Registration

Your Registration includes conference registration kit, access to scientific sessions, morning and afternoon refreshments and lunch. Accompanying persons are required to register for the conference at 50% charges and they will have access to refreshments and lunch. Further details will be available on the website.



**KOCHI** (Cochin), the Queen of the Arabian Sea is situated on the southwest coast of India and is the commercial capital of Kerala state popularly known as "God's own Country". She was an important spice trading centre from the 14th century and was the first of the European colonies in colonial India. She is the home for a large number of prominent educational and research institutions and major industries. Kochi is one of the 28 Indian cities found to be among the emerging 440 global cities that will contribute 50% of the world GDP by the year 2025. Being close to the sea, Kochi has a tropical climate and in March the temperature is moderate going up to 35 degree Celsius.

**COCHIN UNIVERSITY OF SCIENCE & TECHNOLOGY**, CUSAT is one of the premier universities of the country and is known for its high standards in teaching and research. It was established in 1971 and presently it offers higher education programs across a spectrum of disciplines ranging from science, technology and engineering to humanities, law and management. The pursuit of excellence through these programs has given CUSAT national and international acclaim. CUSAT had recently won NAAC A+ grade for its overall activities. As a testimony to its outstanding academic performances and excellence, CUSAT has won the Chancellor's Award for the Best University in Kerala during 2020 making it for the third time after winning the same during 2016-17 and 2018-19. Spread out into 3 campuses, CUSAT has 9 faculties with 28 departments and the university is a highly sought-after institution worldwide for academic collaborations and exchange programs. The ideals and philosophy of the University is embodied in its motto "Tejaswinavadhitamastu" which means, "may the wisdom accrued defy us both the teacher and the taught and percolate to the universe in its totality".

**DEPT. OF APPLIED CHEMISTRY** of CUSAT was established in 1976 to play an important role in the further development of the industrial belt in the greater Cochin area by providing scientific support and trained personnel to the industries and by acting as a catalyst for the establishment of new industries.

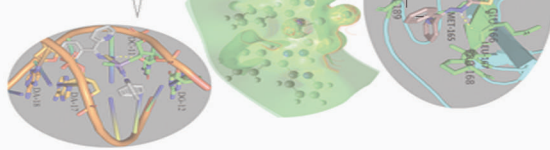
The Department has now grown and has emerged as one of the best centers in Chemistry in the State of Kerala. The Department currently offers M.Sc. programme and Ph.D. Programme in Chemistry.

**MATCON2023** is the 7th international conference of the prestigious MATCON series organized by the Department of Applied Chemistry, CUSAT. As a vital component of the scientific community, the conference aims at exchanging and nurturing innovative ideas of the latest and cutting-edge research among the academicians, scientists and industrialists all over the world. The 3-day international conference will be devoted for invited lectures by eminent academicians and scientists, oral presentations and poster presentations by researchers and budding scientists from various part of the globe. MATCON-2023 is expected to foster transparent and equitable science for all.



## WITH PROFOUND GRATITUDE

**Dr. K. Girish Kumar**, Senior Professor, Department of Applied Chemistry, CUSAT has 33 years of teaching experience and 36 years of research experience in Analytical Chemistry. He started his career at Gandhigram Rural institute, Tamil Nadu in 1989 and joined at the Department of Applied Chemistry, CUSAT in 1999 as a reader in Analytical Chemistry. He is the visiting professor of Department of Chemistry, Sultan Qaboos University, Muscat, Sultanate of Oman. He served as the Head, Department of Applied Chemistry and Dean, Faculty of Science, CUSAT. He was the chief co-ordinator of Guinness World Record Breaking Event “Largest practical science lesson” and “Largest practical biology lesson” held in 2015 and 2017 respectively. He is instrumental in organizing various science popularization programmes. In addition to research responsibilities, he is an active member of various academic and research bodies and presently serving as the Director of Internal Quality Assurance Cell, CUSAT. As a peer team member of NAAC, he is always guiding the university in the right direction to achieve its goals. The main thrust of his research is in the development of chemical sensors with special emphasis on electrochemical and optical techniques with 132 research publications in peer reviewed international journals. Prof. K. Girish Kumar is officially retiring from his academic responsibilities in April 2023. In order to honour the devoted teacher, avid scientist, able administrator, fervent organizer and trusted mentor we are hereby dedicating MATCON 2023.



## Important Deadlines

<b>Submission of Abstracts</b>	<b>15/12/2022</b>
<b>Intimation of Acceptance</b>	<b>18/12/2022</b>
<b>Registration</b>	<b>20/12/2022</b>

## Bank Details

**Name** : MILLENNIUM MATCON 2023  
**A/c No.** : 41280145268  
**IFSC Code** : SBIN0070235  
**MICR Code** : 682002923  
**Swift Code** : SBININBBT16

## Accommodation Details

Accommodation (on payment basis) will be arranged (on request in the registration form) for all the registered participants of MATCON 2023.

## Travel

**By Rail:** The nearest railway station is Alwaye (10 km). Other nearby stations are Ernakulum town (12 km) and Ernakulam Junction (15 km). Taxis and bus services can be availed from these stations to reach CUSAT. One can also utilize Metro Rail services to get down at CUSAT from Alwaye and Ernakulam Town (Lissie stop).

**By Air:** Kochi International Airport is just 20 km from the campus. Several carriers operate from here to domestic and international destinations, prepaid taxis and luxury buses are available from the Airport to Thrikkakara University Campus.

## Registration Fee

Deadline	National Participants (INR)			Foreign Participants (USD)	
	Students/Research Scholars	Faculty	Industrial Participants	Students/Research Scholars	Faculty
30 <sup>th</sup> Nov. 2022	3500/-	6000/-	10000/-	250	300
Spot Registration	6000/-	8000/-	12000/-	300	350



# SPEAKERS



**Dr. Maurizio Prato**  
Professor  
University of Trieste, Italy



**Dr. Frank Wurthner**  
Professor  
University of Wuerzburg  
Germany



**Dr. Yoshinori Nishino**  
Professor  
Research Institute for  
Electronic Science,  
Hokkaido University  
Japan



**Dr. Debapratim Das**  
Professor,  
Indian Institute of Technology,  
Guwahati, India



**Dr. Sumeet Mahajan**  
Professor  
Molecular biophotonics and  
imaging University of  
Southampton, UK



**Dr. Konishi Katsuaki**  
Professor  
Environmental Earth Science  
Hokkaido University  
Japan



**Dr. Biju Vasudevan Pillai**  
Professor  
Research Institute for  
Electronic Science,  
Hokkaido University  
Japan



**Dr. K. George Thomas**  
Professor and  
J. C. Bose National Fellow  
Indian Institute of  
Science Education &  
Research,  
Thiruvananthapuram, India



**Dr. Remya Ramesh**  
Scientist,  
Indian Institute of Chemical Technology  
Hyderabad, India



**Dr. Marcella Bonchio**  
Professor  
Dipartimento di scienze chimiche  
University of Padova  
Italy



**Dr. A. T. Biju**  
Professor  
Department of Organic Chemistry  
Indian Institute of Science  
Bangalore, India



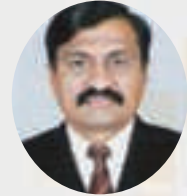
**Dr. Sreekumar Kurungot**  
Senior Principal Scientist  
National Chemical Laboratory,  
Pune, India



**Dr. Thomas Nugent**  
Professor  
Jacobs University Bremen  
Germany



**Dr. Ayan Dutta**  
Senior Professor  
Indian Association for the Cultivation of  
Science,  
Kolkatta, India



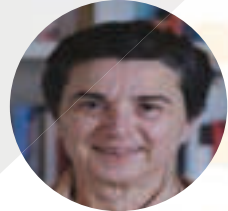
**Dr. M. G. Sethuraman**  
Professor  
The Gandhigram Rural Institute  
Tamil Nadu, India



**Dr. Rengaraj Selvaraj**  
Associate Professor  
Sultan Qaboos University,  
Oman



**Dr. Syoji Ito**  
Associate Professor  
Department of Materials  
Engineering science  
Osaka University, Japan



**Dr. Anna Painelli**  
Professor  
University of Parma, Italy



**Dr. Mitomo Hideyuki**  
Associate Professor  
Research Institute for Electronic  
Science  
Hokkaido University  
Japan



**Dr. Jonathan De Roo**  
Professor  
University of Basel  
Switzerland



**Dr. V. G. Jayakumari**  
Scientist G  
Materials Division  
NPOL (DRDO), Kochi  
India



**Dr. Krishnakumar I. M**  
Chief Research Officer,  
Akay Natural Ingredients Private Limited,  
Ernakulam

## Local Organizing Committee

Prof. K. N. Madhusoodanan, Vice Chancellor, CUSAT  
Prof. P. G. Sankaran, Pro Vice Chancellor, CUSAT  
Prof. P. M. Sabura Begum, Department of Applied Chemistry (Chairman), CUSAT  
Prof. N. Manoj, Department of Applied Chemistry (Convener), CUSAT  
Dr. Leena R., Department of Applied Chemistry (Convener), CUSAT  
Prof. K. Girish Kumar, Department of Applied Chemistry, CUSAT  
Prof. P. V. Mohanan, Department of Applied Chemistry, CUSAT  
Prof. Yoosuf Karuvath, Department of Applied Chemistry, CUSAT  
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Dr. Suja Haridas, Department of Applied Chemistry, CUSAT  
Dr. Manoj E., Department of Applied Chemistry, CUSAT  
Dr. Kala R., Department of Applied Chemistry, CUSAT  
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Dr. S. Nybin Remello, Department of Applied Chemistry, CUSAT  
Dr. Shandev P. P., Department of Applied Chemistry, CUSAT  
Prof. S. Prathapan, Emeritus Professor, Department of Applied Chemistry, CUSAT

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Prof. K. George Thomas, Indian Institute of Science Education & Research, Thiruvananthapuram, India  
Prof. Ayan Dutta, Indian Association for the Cultivation of Science, Kolkatta, India  
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Prof. Ritu Katakya, Durham University, England  
Prof. Salma Al Kindy, Sultan Qaboos University, Oman

## Conveners

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