

## International Conference on Materials for the Millennium MATEONS



## **MATCON 2019**

March 14-16, 2019

Venue: Seminar Complex, Cochin University of Science and Technology, Kochi-22, Kerala

## **PROGRAMME SCHEDULE**

DAY 1 (14-03-2019)				
08.30-09.30	Registration			
09.30-10.30	Inauguration			
10.30-11.00	High Tea			
SESSION 1 Chair – Dr. Parameswaran Pattiyil, National Institute of Technology, Calicut, India				
11.00-11.45	Keynote Address	Prof. K. George Thomas, Indian Institute of Science Education and Research Trivandrum, India 'Excitons and Plasmons: A Tale of Two Elementary Excitations and their Interaction'		
11.45-12.15	I.L.1	Dr. Syoji ITO, Osaka University, Japan  'Mesoscopic Photo-Mechanical Motion of Small Particle Achieved by Switching of Radiation Force through Photochemical Reaction'		
12.15-12.45	I.L.2	Prof. Salma Al Kindy, Sultan Qaboos University, Muscat, Oman  'Photocatalytic Degradation of Chlorophenols Present in Aqueous Solution Under Visible/Solar Light Irradiation'		
12.45-13.00	S.P.1	Prof. Vinay Bhandari, CSIR-National Chemical Laboratory, Pune, India  'Developing Sustainable Methodologies for Wastewater Treatment'		
13.00-14.00	Lunch			
SESSION 2 Royal Society of Chemistry (United Kingdom) Sponsored Lecture Chair – Prof. Wolfgang Kaim, University of Stuttgart, Germany				
14.00-14.30	I.L.3	Prof. E. D. Jemmis, Indian Institute of Science, Bangalore, India 'Borophenes: A New Material on the Block?'		
14.30-15.00	I.L.4	Prof. Herbert W. Roesky University of Gottingen, Germany 'Recent Advances in Aluminium and Silicon Chemistry'		

15.00-15.15	S.P.2	Dr. Vijaykumar C. Nair, CSIR- National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, India 'Engineered Doping of Thiophene based Semiconductors for Thermoelectric Application'		
15.15-15.30	S.P.3	Dr. Santanu Bhattacharyya, Indian Institute of Science Education and Research, Berhampur, Odisha, India 'N-doped Carbon Dots: Optimization for Photocatalytic Solar Water Splitting'		
15.30-15.45		Tea		
15.45-16.00		Conference Photo		
SESSION 3 Chair – Prof. K. K. Mohammed Yusuff, Cochin University of Science and Technology, Kochi, India				
16.00-16.30	I.L.5	Dr. Rengaraj Selvaraj, Sultan Qaboos University, Muscat, Oman  'Metal Free Semiconductors: A Green Material for Environmental Remediation'		
16.30-17.00	I.L.6	Prof. Edwin Yeow, Nanyang Technological University, Singapore 'Sensors that Sense in Sensible Ways'		
17.00-17.10	S.P.4	Mr. Masafumi Koga, Osaka University, Japan 'Photoionization Dynamics of a Phenylenediamine Derivative in Solution Phase Induced by Simultaneous and Stepwise Two-Photon Excitation'		
17.10-17.20	S.P.5	Mr. Tatsuhiro Nagasaka, Osaka University, Japan 'Elucidation of Cyclization and Cycloreversion Reaction Dynamics of a Dithiazolylarylene Derivative'		
17.30-18.30	Poster Session			
18.30-19.30	Cultural Programme 'Kathakali' by Kalamandalam Rajashekharan & Team'			
19.30		Dinner		
		DAY 2 (15-03-2019)		
	Cha	SESSION 4 nir – Prof. Abdulaziz Bagabas		
King		r Science and Technology, Riyadh, Saudi Arabia		
09.30-10.00	I.L.7	Prof. Hanna Radecka, Polish Academy of Science, Poland  'Gold and Silver Nanoparticles in Electrochemical Sensors for Ultrasensitive DNA Analysis'		
10.00-10.30	I.L.8	Prof. Ramasamy Ramaraj, Madurai Kamaraj University, Madurai, India 'Nanostructured Materials Modified Electrodes and their Applications in Catalysis and Sensors'		

10.30-11.30	Poster Session				
11.30-11.45	Tea				
SESSION 5  Chair – Prof. K. Girish Kumar, Head of the Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, India					
11.45-12.15	Felicitation to Dr. P.A. Unnikrishnan, Cochin University of Science and Technology, Kochi, India by Prof. K. Sreekumar, Cochin University of Science and Technology, Kochi				
12.15-12.45	I.L.9	Dr. Kajal Chakraborty, Central Marine Fisheries Research Institute, Kochi, India  'Bioactive Compounds from Marine Organisms as Novel Molecular Scaffolds for Future Pharmacophore Discovery'			
12.45-13.00	S.P.6	Dr. Joshy Joseph, CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, India 'Mutually Assisted Self-Assembly of Fullerene Clusters and Short DNA Strands'			
13.00-14.00		Lunch			
Chai	SESSION 6 Chair – Dr. Rengaraj Selvaraj, Sultan Qaboos University, Muscat, Oman				
14.00-14.30	I.L. 10	Prof. Wolfgang Kaim, University of Stuttgart, Germany 'Materials with Electronic Transitions in the Near Infrared'			
14.30-15.00	I.L.11	Prof. Abdulaziz Bagabas, King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia 'Novel Green Route for the Synthesis of Isopropyl Alcohol'			
15.00-15.15	S.P.7	Dr. Sreejith Shankar, CSIR - National Institute for Interdisciplinary Sciences and Technology (CSIR-NIIST), Thiruvananthapuram, India 'Electrochromism - From Molecules to Materials and Devices for Smart Energy Utilization'			
15.15-15.30	S.P.8	Dr. Pravin G. Ingole, CSIR-North East Institute of Science and Technology, Assam, India  'Thin Film Nanocomposite Polymer Membranes - Recent Development for the Sustainable Future'			
15.30-15.45		Tea			
SESSION 7 Chair – Prof. Jerzy Radecki, Polish Academy of Science, Poland					
15.45-16.15	I.L.12	Prof. Heinrich Lang, Technische Universitat Chemnitz, Germany 'From: Small Tailor-made Molecules To: New Materials'			

16.15-16.45	I.L.13	Dr. Reji John, Defence Research and Development Organisation, Kochi, India 'Smart Materials and Devices'		
16.45-17.00	S.P.9	Dr. Paulomi Ghosh, CSIR-Indian Institute of Chemical Biology, Kolkata, India  '3D Printed Construct Incorporating Decellularized Chondral Matrix for the Treatment of Large Cartilage Defects'		
17.00-17.10	S.P.10	Ms. Bhagyalakshmi S.B., Hokkaido University, Japan 'Charge Carrier Dynamics in Microscale and Nanoscale Perovskite Structures'		
18.00		Conference Dinner at 'Nihara Resort'		
DAY 3 (16-03-2019)				
SESSION 8 Chair – Prof. S. Prathapan, Cochin University of Science and Technology, Kochi, India				
9.30-10.00	I.L.14	Prof. Vasudevanpillai Biju, Hokkaido University, Japan  'Incessant and Intermittent Photoluminescence from Semiconductor Nanocrystals: Challenges and Prospects'		
10.00-10.30	I.L.15	Prof. Jerzy Radecki, Polish Academy of Science, Poland  'Redox Active Monolayers for Exploring of Anion Recognitions Processes in Aqueous Phase'		
10.30-11.30	Poster Session			
11.30-11.45	Tea			
SESSION 9  Prof. K.K. Mohammed Yusuff Endowment Lecture  Chair – Prof. S. Sugunan, Cochin University of Science and Technology, Kochi, India				
11.45-12.15	I.L.16	Dr. Parthasarathi Chakraborty, Indian Institute of Technology, Kharagpur, India		
12.15-12.45	Valedictory Function			
12.45	Lunch			