

ICRAMC 2019 - REPORT

3rd International Conference on Recent Advances in Material Chemistry (ICRAMC-2019) February 13-15, 2019

The 3rd International Conference on Recent Advances in Material Chemistry (ICRAMC - 2019) organized by Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur was held at T. P. Ganesan Auditorium (Mini Hall-1) in association with CEA, France, sponsored by DST-SERB and CSIR, India commenced with the invocation. The Chief guest of the conference **Padmashri, Dr. Mylswamy Annadurai**, Vice President, Tamil Nadu State Council for Science and Technology & Former Director, ISRO Satellite Centre, Bengaluru inaugurated the conference and released the proceedings. The chief guest stressed the importance of chemistry of materials towards scientific and technological advancements highlighting the recent breakthroughs especially in nanotechnology, composites, batteries, metamaterials and more.



Prof. Sandeep Sancheti, Vice Chancellor, SRMIST presided over the conference. Prof. M. Arthanareeswari, Convenor ICRAMC 2019 welcomed the delegates. Prof. Gilberte Chambaud, President of French Chemical Society, University of Paris-Est Marne-la-Vallée, France delivered the special address.



More than 300 technical papers were presented in 5 sessions and the presented papers will be submitted as full manuscripts for possible publication in journals – Materials Today Proceedings and Materials Research Express. The participants from countries such as France, USA, South Korea, Taiwan, China, Japan, Thailand, Turkey etc., have contributed for these technical papers that were presented during the conference. This conference addressed the recent research advancements in the field of Materials Chemistry and the new strategies for the development of new materials for the Global requirement.



In first session, two invited talks were delivered related to Multiscale model of electro-mechanic properties of nanowires: from atoms to device by **Prof. Gilberte Chambaud**, President of French Chemical Society University of Paris-Est Marne-la-Vallée, Paris, France and Nanometric Micelles for Drug Delivery and Catalysis by **Dr. Eric Doris**, Research Director, Alternative Energies and Atomic Energy Commission (CEA), France. This was followed by 8 short oral presentations.



Prof. Gilberte Chambaud Presents her talk



Dr. Eric Doris delivers his invited talk

In second session, three invited talks were delivered related to Novel N-heterocyclic Carbenes as Functionalized Ligands by **Dr. Chien-Hung Li**, Department of Medicinal and Applied Chemistry, Kaohsiung

Medical University, Taiwan and Therapeutic applications of functionalized carbon nanotubes and amino acid-based hydrogels by **Dr. Menard-Moyon Cecilia**, CNRS researcher, Institute of Molecular and Cellular Biology, CNRS, University of Strasbourg and Bio-Piezoelectric Nanogenerator for Implantable Devices **Dr. Dipankar Mandal** Associate Prof., Institute of Nano Science and Technology (INST), Mohali, India. This was followed by 8 oral presentations and poster presentation.



Dr. Chien-Hung Li
Presents his invited talk



Dr. Menard-Moyon Cecilia
delivers her talk



Dr. Dipankar Mandal
presents his talk

In third session, four invited talks related to Multi-scale ab initio studies of small molecular systems interacting with macromolecular systems: Applications to confinement and solvation by **Prof. Majdi Hochlaf**, University of Paris-Est Marne-la-Vallée, Paris, France and Computational-guided discovery of MOFs for energy and environmental-related application by **Dr. Guillaume Maurin**, Charles Gerhardt Institute, University, Montpellier, France followed by Porous Materials for Energy and Environmental Applications: From Modeling to Mass Production by **Dr. Ravichandar Babarao**, RMIT, School of Science, Melbourne, Australia and Vesicle formation of ion pair amphiphiles with additives by **Prof. Chien-Hsiang Chang**, Department of Chemical Engineering, National Cheng Kung University, Taiwan. This was followed by 8 short oral presentations.



Prof. Majdi Hochlaf presents his talk



Prof. Guillaume Maurin delivers his invited talk



Prof. Ravichandar Babarao Presents his talk



Prof. Chien-Hsiang Chang delivers his invited talk

In fourth session, two invited talks related to issues related to Challenging issues in Al-air and Zn-air dual electrolyte flow batteries by **Dr. Soorathep Kheawhom**, Faculty of Engineering, Chulalongkorn University, Thailand followed by Immuno electrochemical Detection of Circulating Tumor Cells by **Prof. Sundaram Gunasekaran**, Director, CALS Global, Departments of Biological Systems Engineering and Materials Science & Engineering, University of Wisconsin-Madison, USA and 8 short oral presentation and poster presentation.



Prof. Soorathep Kheawhom Presents his talk



Prof. Sundaram Gunasekaran delivers his talk

The last session had invited talks related to Chemical Fusion: Toward controlled protein assembly, by **Prof. Alain Wagner** Director of Biofunctional Chemistry Lab, CNRS, University of Strasbourg, France and Chondroitin Sulfate-Modified Polymers for Drug Delivery by **Prof. Li-Fang Wang**, Dean, College of life science, Kaohsiung Medical University, Taiwan and Peptides nanotubes : from self-assembly to application by **Dr. Jean Christophe Cintrat**, Head of Laboratory of Bioorganic Chemistry, Alternative Energies and Atomic Energy Commission (CEA), France and Performance improvement strategies of chemical sensors with biomedical and nano engineering perspectives by **Dr. Dilek Çökeliler Serdaroğlu**, Assoc. Prof., Department of Biomedical Engineering, Başkent University, Ankara, Turkey and ¹⁴C-radiolabeling CNT and Graphene

Related Materials for toxicological studies by **Dr. Sallustrau Antoine**, CDI, Engineer-Researcher, Alternative Energies and Atomic Energy Commission (CEA), France. In this session a total of 8 short oral presentations were presented.



Prof. Alain Wagner Presents his talk



Prof. Li-Fang Wang delivers her invited talk



Dr. Jean Christophe Cintrat delivers his invited talk



Dr. Dilek Çökeliler Serdaroğlu presents her talk



Dr. Sallustrau Antoine delivers his talk

The conference had totally 16 invited talks, 40 oral presentations and poster presentations. Three best oral and poster presentations were selected for best paper presentations awards.

Three best oral and poster presentations were selected for best paper presentations awards.

The first - **Best Oral presentation** was awarded to **Rupali Gupta** of Banaras Hindu University.

The second - **Best Oral presentation** was awarded to **P. Dhaiveegan**, of Tatung University, Taipei, Taiwan.

The third - **Best Oral presentation** was awarded to **Jayantha Sarmah Boruah**, of Institute of advanced study in Science and Technology, Guwahati, India.

The first - **Best Poster presentation** was awarded to **S. Kasthuri** of SRM Institute of Science and Technology, Kattankulathur. India

The second - **Best Poster presentation** was awarded to **Monalisa Mohanty**, of CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, India.

The third - **Best Poster presentation** was awarded to **C. Ragaverthini**, SRM Institute of Science and Technology, Kattankulathur. India

ICRAMC-2019 attracted scientists, researchers, and students from across the world. Also, this conference provided a good opportunity to share the innovative ideas and scientific results in the field of Material Chemistry among the researchers, academicians, industry people and students. Invited talks, oral presentations and poster presentations opened a new way to the research on Materials Chemistry.

Dr. M. Arthanareeswari
CONVENOR, ICRAMC 2019