

Post Graduate and Research Department of Chemistry
Sacred Heart College (Autonomous), Thevara, Kochi –682 013
“PROF. K V THOMAS ENDOWMENT INTERNATIONAL SYMPOSIUM ON
NEW TRENDS IN APPLIED CHEMISTRY (NTAC - 2019)”
14 – 15 January 2019

Programme Schedule

14-01-2019 - Venue: Hotel Crowne Plaza

8:30 AM – 8: 45 AM	:	Registration
9:00 AM – 9:30 AM	:	Inauguration
9:30 AM – 9:50 AM	:	Conference theme and Nobel and Keynote Speaker introduction
Chair	:	Dr. Thomas Colacot, Chair, Advisory Board - NTAC – 2019
	:	Merck KGaA (Millipore Sigma) R&D Fellow, Director – Global Technology Innovation, USA
Co- Chair	:	Dr. Grace Thomas, Coordinator, NTAC – 2019
9:50 AM – 10:45 AM	:	Nobel Lecture – “ <i>Fundamental Science to Practical Solutions</i> ” Prof. Robert H. Grubbs (Nobel Laureate in Chemistry - 2005) Division of Chemistry & Chemical Engineering, California Institute of Technology, USA
10:45 AM – 11:00 AM	:	Coffee break
11:00 AM – 11.50 AM	:	Keynote Address – “ <i>Biomimetic Catalysis in Green Organic Transformations</i> ” Prof. Jan-Erling Bäckvall (Past Nobel Committee Chair & Current Member) Stockholm University, Arrhenius Laboratory, Stockholm, Sweden

Technical Session I – **Total Synthesis from Traditional to Computer Aided**

- Session Chairs : 1. **Dr. Joydeep Kant**
Executive Director
Head of Global Pharmaceutical Sciences and Medicinal Chemistry,
Zoetis Inc.
2. **Prof. I. Ibnusaud**
Director, IIRBS, Mahatma Gandhi University, Kottayam

Plenary Lecture I

- 11:50 AM – 12:25 PM : *“Curiosity, Serendipity and Logicality in Organic Synthesis”*
Prof. Krishna P. Kaliappan
Dean (Faculty Affairs), Institute Chair Professor,
Department of Chemistry, Indian Institute of Technology, Bombay

Plenary Lecture II

- 12:30 PM - 1: 05PM : *“Synthia™ Retrosynthetic software for practicing chemists: Novel and efficient in silico pathway design validated at the bench.”*
Dr. Ashwini Ghogare
Consultant, Cheminformatics Technology
Millipore Sigma, Greater Boston Area, USA

- 1:15 PM – 2:00 PM : Lunch

Technical Session II – **Catalysis from Academia to Industry**

- Session Chairs : 1. **Dr. Ravindra Vikram Singh, FRSC**
Head of India R&D
Custom synthesis and Manufacturing
Sigma-Aldrich (Merck KGaA)
2. **Prof. R. Vijayaraghavan**
Vellore Institute of Technology, Vellore

Plenary Lecture III

- 2:00 PM – 2:35 PM : *“Catalysis in action: from making of polymers to breaking of hydrocarbons”*
Dr. Shiju N. Raveendran
Associate Professor
Van't Hoff Institute for Molecular Sciences
University of Amsterdam, Netherlands

Plenary Lecture IV

2:35 PM – 3:05 PM : *“Homogeneous Hydrogenation: Beyond Chiral Applications”*
Dr. Sivakumar V.
Technical Services Manager
Johnson Matthey, Mumbai, India

3:05 PM – 3:20 PM : Coffee break

Technical Session III – Applied Organic Synthesis via Palladium catalyzed processes

Session Chairs : 1. **Prof. H. Ila**
New Chemistry Unit, JNCASR
2. **Dr. Govinda Rajulu**
Deputy General Manager-II
Anthem Biosciences Pvt Ltd

Plenary Lecture V

3:20 PM – 3:55 PM : *“Practical Asymmetric Syntheses in Pharmaceutical Industry Heterocyclic Chemistry and Asymmetric Synthesis”*
Dr. Chen-yi Chen
Janssen Research & Development Discovery
Product Development & Supply, Small Molecule API, Switzerland

Plenary Lecture VI

3:55 PM – 4:30 PM : *“Dynamic catalytic systems for organic synthesis and sustainable development”*
Prof. Valentine P. Ananikov
Elected Member of Russian Academy of Sciences
Laboratory Head, Zelinski Institute of Organic Chemistry
Moscow, Russia

4:30 PM – 4:35 PM : Announcements

4:35 PM – 6:35 PM : Poster Presentation

7:00 PM : Conference Banquet

15-01-2019 – Venue : **Hotel Crowne Plaza**

9:00 AM – 9:50 AM : Oral Presentations by Poster Award Winners

Session Chair : **Prof. Prathapan Sreedharan**
CUSAT, Kochi

Technical Session IV : **Modelling and Mechanistic Studies**

- Session Chairs : 1. **Prof. Vidya Avasare**
Sir Parashurambahu College, Pune
2. **Dr. Ambar K. Choudhury**
Sami Labs Ltd. Bangalore

Plenary Lecture VII

9:50 AM – 10:25 AM : *“Clusters as catalytic and functional materials: Computational design”*

Dr. Sourav Pal, Director
Indian Institute of Science Education Research, Kolkata, India

10:25 AM – 10:40 AM : Coffee break

Technical Session V : **Organometallics in Action**

- Session Chairs : 1. **Dr. Narayanan Unni**
Head, Photochemistry, NIIST - TVM
2. **Dr. Rajneesh Kumar**
Merck Life Sciences

Plenary Lecture VIII

10:40 AM – 11:15 AM : *“Using N, O to get to Yes. Catalytic Amination for Small Molecule and Polymer Synthesis”*

Prof. Laurel Schafer
Department of Chemistry
The University of British Columbia, Vancouver, Canada

Plenary Lecture IX

11:15 AM – 11:45 AM : *“Designed Performance of Polypropylene Materials: Novel RELCAT™ Catalyst & Polymerization Technology”*

Dr. Virendra Gupta
Head R & D – Polymer
Reliance Research & Development Centre, Mumbai, India

Technical Session VI : Concluding Talk - Green Chemistry

Session Chair : **Dr. RakshVir Jasra**
Senior Vice President
Reliance Industries Limited

Plenary Lecture X

11.45 AM – 12.30 PM : *“Transitioning Organic Synthesis to a Water World. Faster, Better, Cheaper, & Environmentally Responsible Chemistry”*

Prof. Bruce H. Lipshutz

Department of Chemistry and Biochemistry
University of California, Santa Barbara, USA

12:30 PM : Closing remarks and Lunch

2:45 PM : Tea followed by moving to S.H. College

3:30 PM : Public interaction Programme

Transportation to all the venues will be arranged by the organizers