SVKM'S NMIMS Deemed to be UNIVERSITY

SUNANDAN DIVATIA SCHOOL OF SCIENCE

International Conference On:

ADVANCES IN MATERIALS SCIENCE & APPLIED BIOLOGY (AMSAB)

8th to 10th January 2019

DAY 3






Key Note Speaker:

Dr. Tapas Sen

- Title From: Functional Nanomaterials in CleanTech and Medicine: An overview of our past and on-going UKIERI projects
- Dr. Tapas Sen is a reader in Chemistry at the University of Central Lancashire, UK. Currently he is leading the Nano-biomaterials Research group dedicated on researching in the area of nanomaterials and their applications in separation science, drug delivery, industrial catalysis and bio-sensors. Currently the group is running three multinational projects in collaboration with world leaders from academia and industries.
- Tapas Sen is leading the Nano-biomaterials Research Group within the area of Materials Science and is member of the Functional Materials Research Group. He is a Fellow of the Royal Society of Chemistry (FRSC) and Higher Education Academy (FHEA) of UK


Key Note Speaker: Dr. Tapas Sen

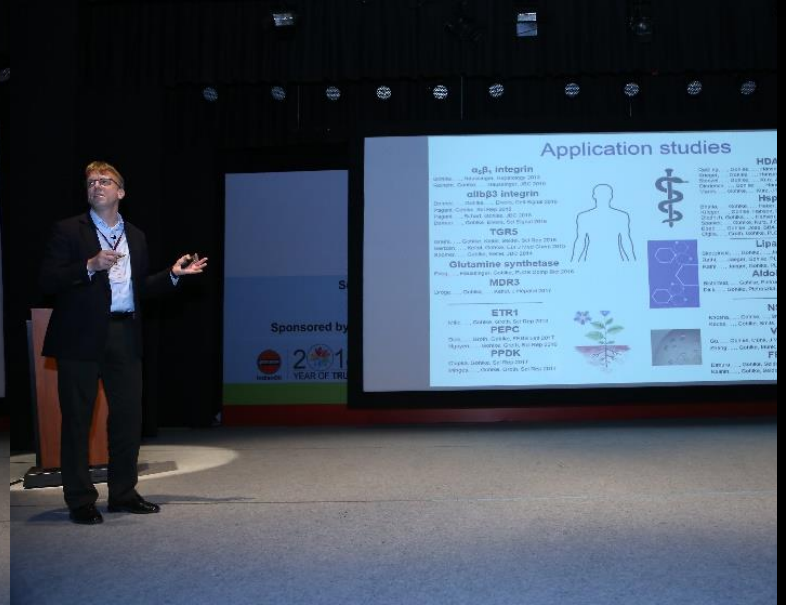
(University of Central Lancashire, UK)


Key Note Speaker:

Dr. Holger Gohlke

(Heinrich Heine University Dusseldorf, Germany)

- Title: Functional selectivity and basal activity of G-protein coupled receptors deduced from network rigidity
- Dr. Holger Gohlke is currently working as professor of pharmaceutical and medicinal chemistry at Heinrich-Heine-University Düsseldorf.
- He was awarded the “Promotionspreis“ from Philipps-University Marburg (2003), the “Innovationspreis in Medizinischer und Pharmazeutischer Chemie” from the Gesellschaft Deutscher Chemiker and the Deutsche Pharmazeutische Gesellschaft (2005).
- His current research focuses on the understanding, prediction, and modulation of interactions involving biological macromolecules from a theoretical perspective. His group applies and develops techniques grounded in bioinformatics, computational biology, and computational biophysics.



Key Note Speaker: Dr. Holger Gohlke

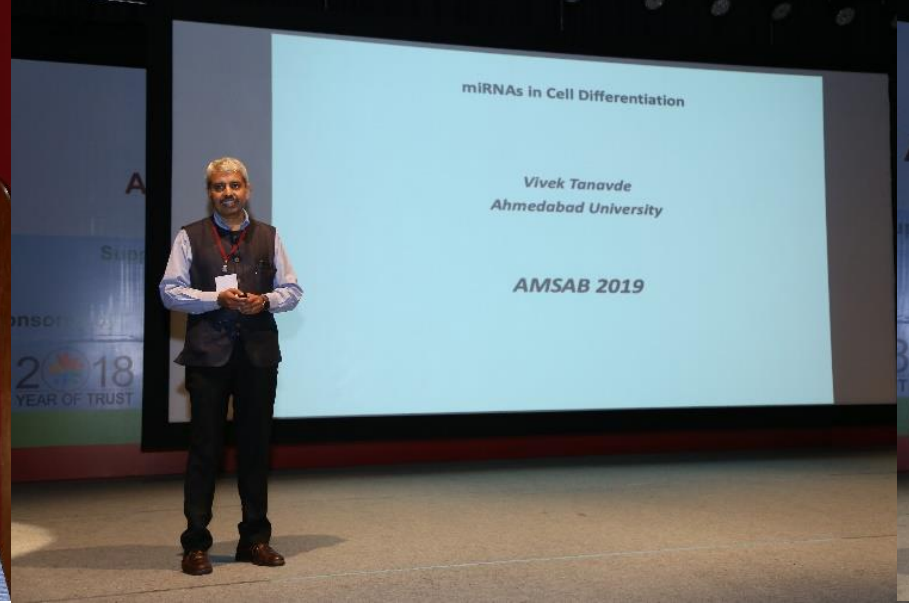
(Heinrich Heine University Dusseldorf, Germany)

Invited Speaker:

Dr. Vivek Tanavde

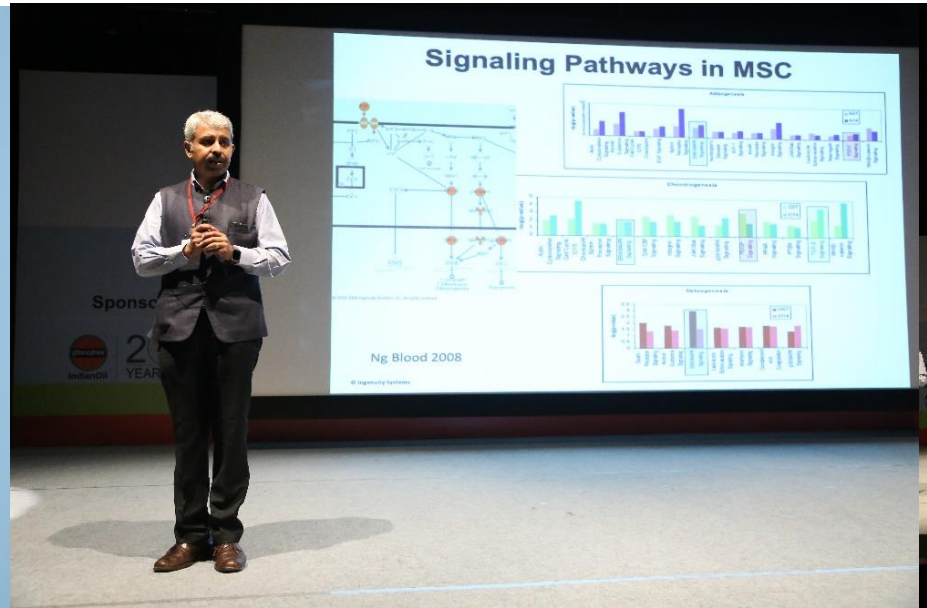
(Ahmedabad University, India)

- Title: miRNA regulation of stem cell differentiation: Do miRNA networks regulate signalling networks in differentiating Mesenchymal Stromal Cells
- Dr. Vivek Tanavde joined Ahmedabad Unviersity in 2017. Prior to this, he was a Principal Investigator at the Bioinformatics Institute, Singapore for more than 10 years.
- Dr. Vivek Tanavde focuses to achieve targeted differentiation of Mesenchymal stromal cells (MSC) by regulating signaling pathways. MSC have the potential of differentiating into a variety of different cell types & therefore offer therapeutic potential to treat a variety of disorders.
- Dr. Vivek Tanavde research is connecting the trasncriptome data to cellular phenotype. This is difficult but becoming increasingly important with the advent of Next Generation Sequencing (NGS) technologies.



Invited Speaker: Dr. Vivek Tanavde

(Ahmedabad University, India)

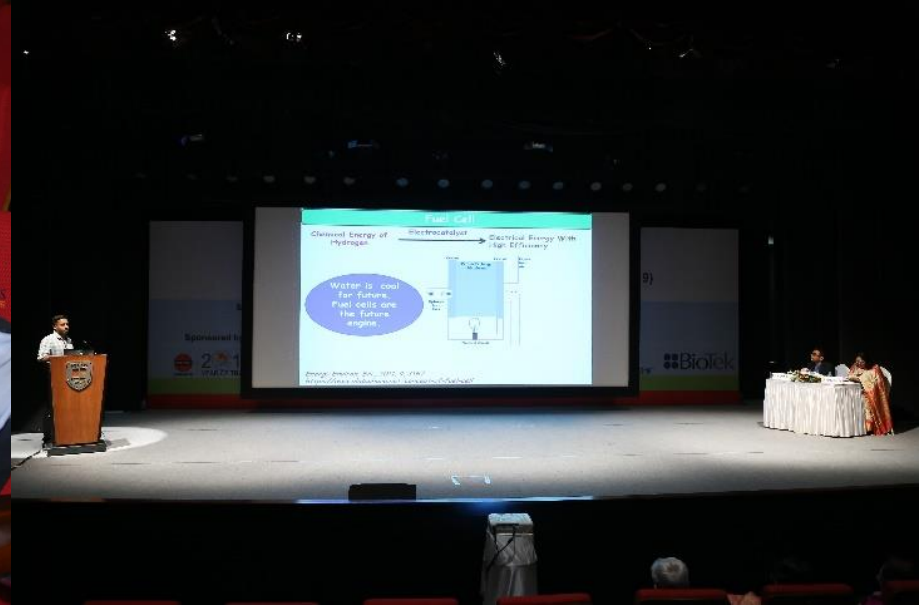


Invited Speaker:

Dr. Musthafa Muhammed

(Indian Institute of Science Education and Research, Pune, India)

- Title: Realization of Hydrogen Economy with Electrochemical Energy Device
- Dr. Mustafa Muhammed is Assistant Professor at Department of Chemistry, Indian Institute of Science Education and Research(IISER), Pune.
- He is passionately involved in integrating the fundamental understanding at the molecular level to design cost effective, economical and environmentally friendly energy storage and conversion devices.
- Dr Muhammed will be foraying in electrochemistry for developing novel interfaces for applications ranging from selective sensors to electro-organic synthesis.



Invited Speaker: Dr. Musthafa Muhammed

(Indian Institute of Science Education and Research, Pune, India)

Invited Speaker:

Dr. Shailza Singh

(National Centre for Cell Science, Pune India)

- Title From: Systems driven Synthetic bio therapeutics device in Leishmaniasis
- Dr. Shailza Singh is currently a professor and researcher at National Centre for cell science Pune.
- Her lab focuses on molecular dynamics simulation of proteins and their interacting molecules.
- we have started working on systems biology where we aim to integrate the action of regulatory circuits, cross-talk between pathways and the non-linear kinetics of biochemical processes through mathematical models.
- Her Current Research is on System and Synthetic Approaches for therapeutic intervention against Leishmania.

Invited Speaker: Shailza Singh

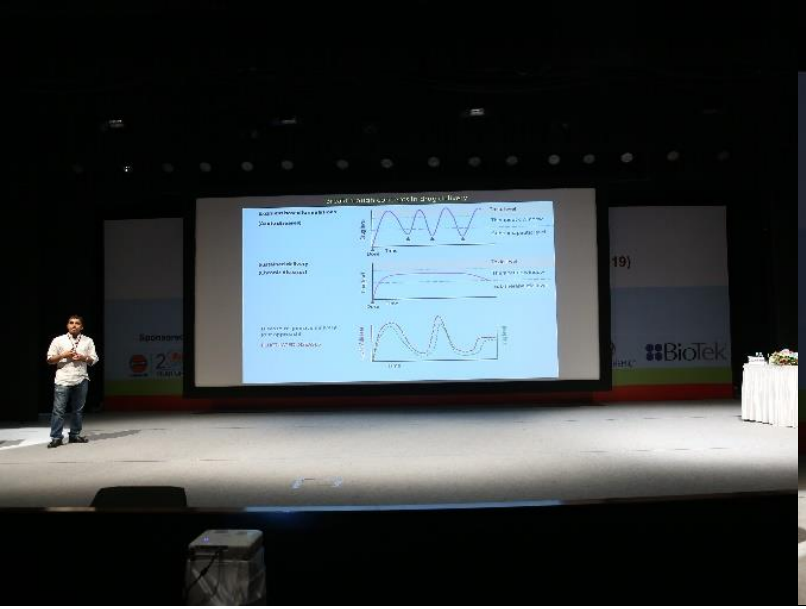
(National Centre for Cell Science, Pune India)

Key Note Speaker:

Dr. Praveen Kumar Vemula

(Instem, Bengaluru, India)

- Title: Disease-responsive biomaterials: A novel concept for the treatment of autoimmune and inflammatory diseases
- Dr. Praveen Kumar Vemula is a Principal Investigator at the Institute for Stem Cell Biology and Regenerative Medicine (inStem), National Centre for Biological Sciences (NCBS), Bangalore.
- Currently his lab utilizes nanotechnology as a basic tool, and by combining with clinical research he aims to achieve an improved delivery of drugs, genes or cells as next-generation therapeutic strategies.
- Dr Vemula's research is directed to harness the potential of self-assembled or polymeric nanomaterials as 'next-generation biomaterials' in the field of translational research to solve unmet biomedical needs.



Invited Speaker: Dr. Praveen Kumar Vemula

(Instem, Bengaluru, India)

Oral talk:

Ayan Maity

(Department of Chemical Sciences, TIFR, Mumbai, India)

Title: Highly Monodispense dendritic fibrous Nanosilica: scalable synthesis Quantified by E-factor and application in lasing ny self-Assembled Photonic Crystals.

Oral talk:

Dr. Vrushali Joshi

(NMIMS Sunandan Divatia School of Science,
Mumbai India)

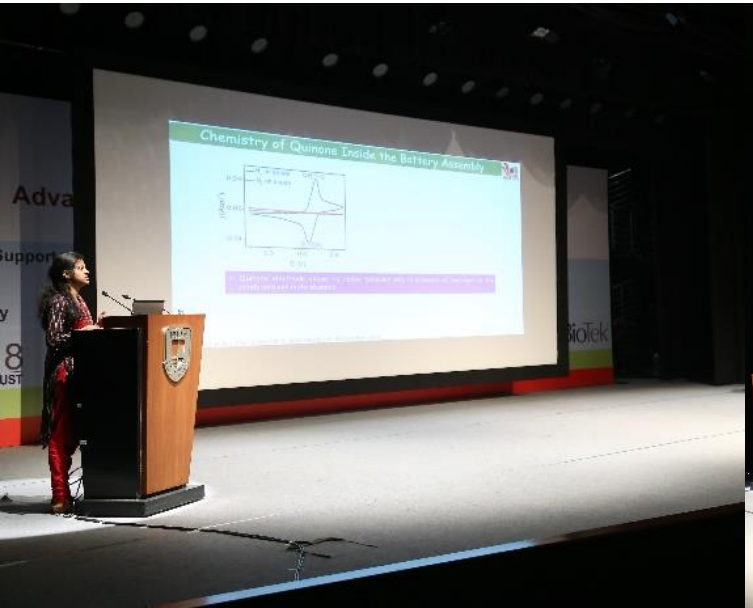
Title: Real-time Metabolic interaction between tow bacterial species using a carbon-basedpH and peroxide microsensors as a scanning electrochemical microscopyprobes.

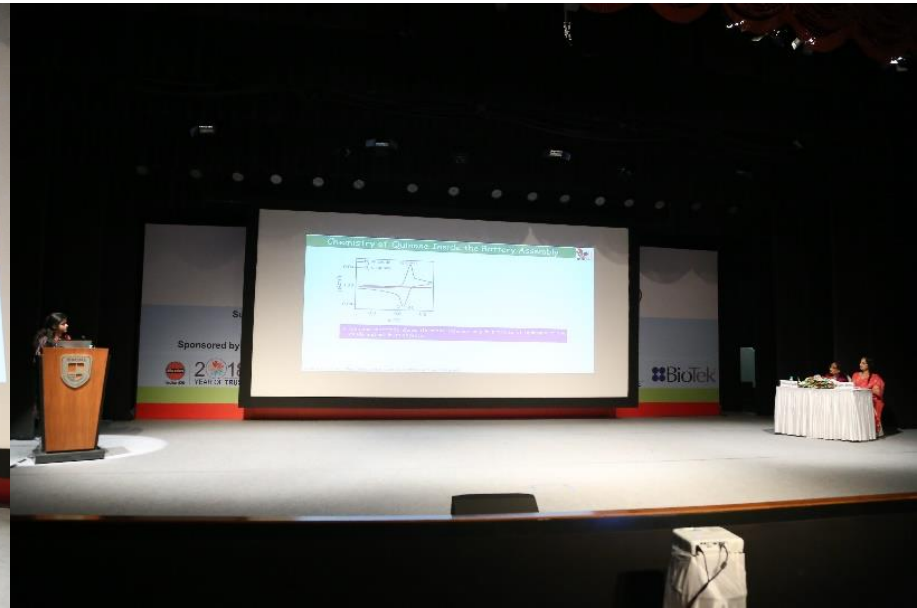
Oral talk:

Neethu C.D

(IISER Pune, India)

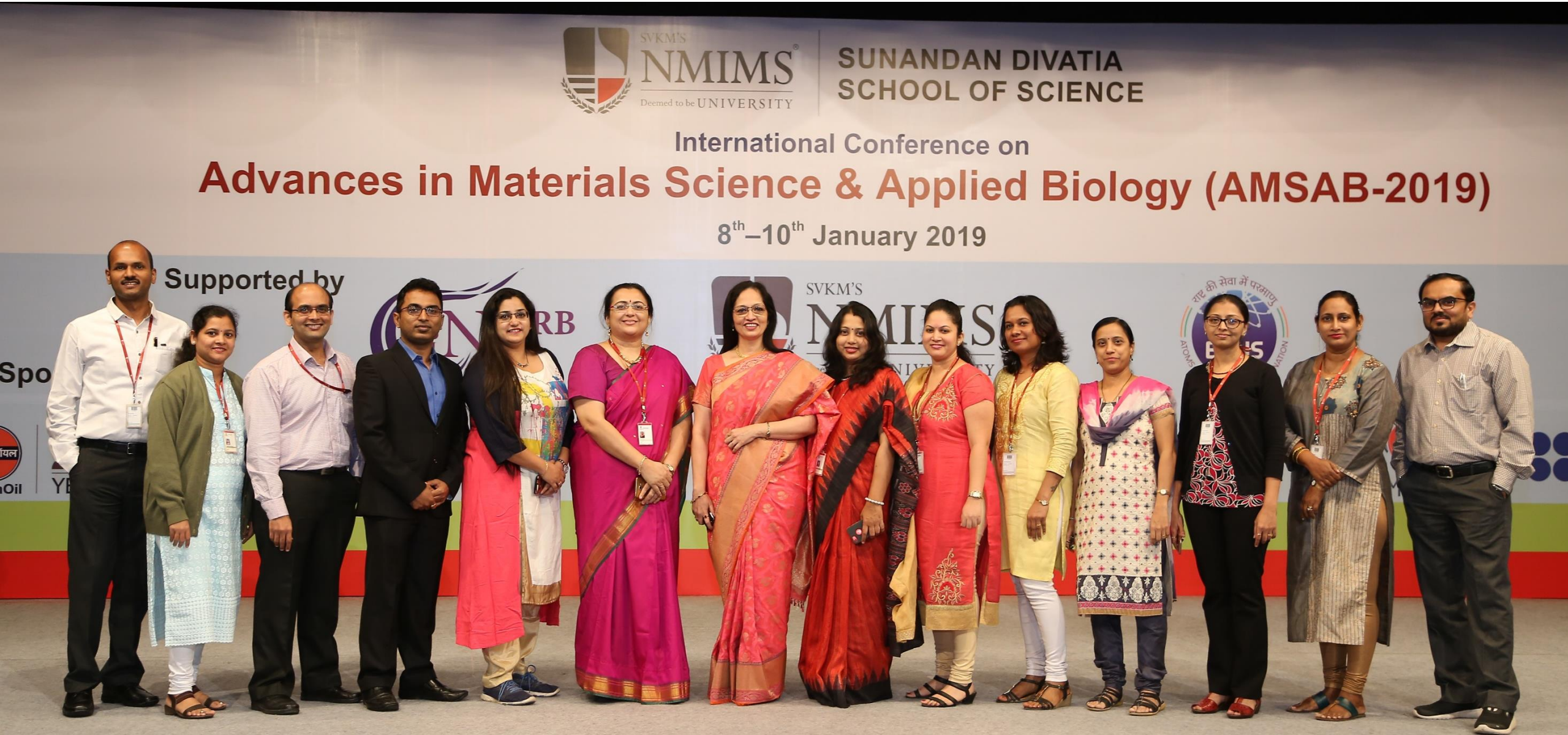
Title: A rechargeable Hydrogen Battery





Prize Distribution

AMSAB Core Team

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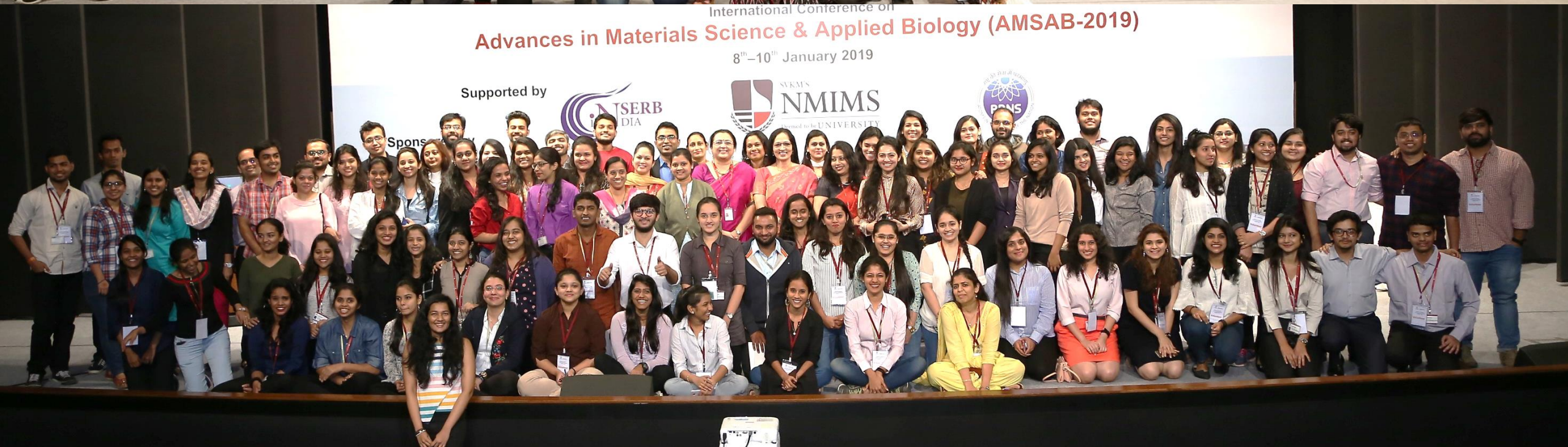
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