

BESCON-2017
Biological Engineering for the 21st Century
September 8 – 9, 2017

Day-1 (8th September)

Registration: 8.30-10 am

Inauguration: **10.00 - 11.30 am**

- Lighting of Lamp and Introduction : 10.00-10.05
- Welcome Address : Prof. A. K. Dubey, Convener, Bescon-2017 : 10.05-10.10
- Address by Prof. Sanjoy Ghosh, General Secretary, BES : 10.10 -10:15
- Address by Prof. J. P. Saini, Director, NSIT : 10.15-10.25
- Address by Shri R. Chaudhry, Chairman BOG, NSIT : 10.25-10.35
- Address by Prof. P. Ghosh, President, BES : 10.35-11.05
- Address by Guest of Honor : 11.05- 11.15
- Felicitation to Prof. T. K. Ghose : 11.15 -11.25
- Vote of Thanks by Dr. Shilpa Sharma : 11.25-11.30

Tea - 11.30 am to 12:00 pm

Session-I: Systems and Synthetic Biology

Session Chair: Prof. T. Satyanarayana **Co-Chair:** Prof. James Gomes

Rapporteur: Dr. Yatender Kumar

Time	Speaker	Title
12.00 - 12.20 pm	Dr. Pawan Dhar JNU, Delhi	Designing novel drugs from the unused genome
12.20 - 12.40 pm	Dr. Biplab Bose IIT Guwahati	Signal discrimination through a negative feedback
12.40 - 13.00 pm	Dr. Guhan Jayraman IIT Chennai	Regulation of metabolic pathway fluxes by synthetic biology approaches
13.00 – 13.20 pm	Dr. Pratyush Shukla MDU, Rohtak	Synthetic and systems microbiology and metabolic engineering approaches for industrial enzymes
13.20 – 13.30 pm	Session Chair Sum-up	

Lunch –13.30 - 14.20 pm

Session-II: Bioprocessing

Session Chair: Prof. Sanjoy Ghosh **Co-Chair:** Dr. Banwari Lal

Rapporteur: Mr. Akhilesh Dubey

Time	Speaker	Title
14.20 -14.40 pm	Dr. Sanjay Nene CEO, Innovation Biologicals Pvt Ltd	Historical overview and current advances in fermentation technology
14.40 – 15.00 pm	Dr. U. C. Banerjee NIPER, Mohali	Development of bioprocesses using nanobiocatalysts as enzyme source for the synthesis of chiral drugs and drug intermediates
15.00 - 15.20 pm	Dr. D. K. Sahoo, IMTECH, Chandigarh	Biopharmaceutical process development: a case study on <i>Escherichia coli</i> as host for production of therapeutic proteins
15.20 – 15.40 pm	Dr. A. K. Panda NII, Delhi	High-throughput folding of inclusion body proteins
15.40 – 16.00 pm	Dr Banwari Lal TERI, Delhi	Microbial enhanced oil recovery
16.00 – 16.10 pm	Session Chair Sum-up	

Tea & Poster Session : 16.10 –17.30 pm
BESI Meeting : 17.30 - 19.00 pm
Cultural Programme : 19.00 – 19.30 pm
Dinner : 19.30 pm onwards

Day- 2 (9th September)

Session-III: Biological Engineering in Drug / Small Molecule Discovery
Session Chair: Dr. Amulya K. Panda **Co-Chair:** Dr. Prashant Mishra
Rapporteur: Dr. Shilpa Sharma

Time	Speaker	Title
9.00 - 9.20 am	Prof. Siddhartha S. Ghosh IIT Guwahati	Emergence of cancer diagnostics
9.20 - 9.40 am	Dr. Supreet Saini IIT Bombay	Coordinated control of virulence factors and antibiotic resistance in enteric bacteria
9.40 - 10.00 am	Dr. Anirban Roy BITS Goa	How can we tune the biological response of a membrane surface: an investigative study
10.00 - 10.20 am	Dr. Mohd. Ali Jamia Milia Univ. Delhi	Lower terpenes and aromatherapy
10.20 – 10.30 am	Session Chair sum-up	

Tea – 10.30 - 11.00 am

Session-IV: Environment, Bio-energy and Bioseparation
Session Chair: Dr. D. K. Sahoo **Co-Chair:** Dr. Kashyap Dubey
Rapporteur: Ms. Akanksha Kulshrestha

Time	Speaker	Title
11.00 -11.20 am	Dr. D.K. Tuli Chair, DBT-IOC centre for Bio-Energy Research	Lignocellulosic ethanol - current status and impediments
11.20 - 11.40 am	Dr. T. R. Sreekrishnan IIT Delhi	Biotechnology of waste water management
11.40 am -12.00 pm	Dr. Ram Prakash and Dr M. Krishnamohan CEERI Pilani and BISR Jaipur	Mercury-free plasma UV lamp based technology for environmental protection
12.00 -12.20 pm	Dr Arun Kansal TERI University, Delhi	Anaerobic digestion in sanitary landfills
12.20-12.40 pm	Dr. P. Mondal IIT Roorkee	Phytoremediation of arsenic, fluoride and manganese containing wastewater
12.40 – 12.45 pm	Session Chair Sum-up	

Panel Discussion and Closing Ceremony: 12.45 – 14.15 pm

Panel Discussion: Curriculum and Career - Biology Based Engineering
Chair: Dr. Sanjoy Ghosh

Panel: Dr. Amulya Panda; Dr. A. K. Dubey; Dr. Aradhana Srivastava; Dr. Prashant Mishra; Dr. T. Satyanarayana; Dr. T. R. Sreekrishnan

Vote of Thanks: Dr. Shilpa Sharma

Lunch: 14.15 pm onwards