

Tata Centre for Technology and Design, IIT Bombay

1st Annual Symposium

On: 17th & 18th January, 2018

At: Victor Menezes Convention Centre (VMCC), IIT Bombay

Agenda

Day 1 – 17th January, 2018

8.30 am – 9.00 am Registration

9.00 am – 9.05 am Welcome by **Prof. Ravi Sinha**, Dean ACR, IIT Bombay, and
Prof. Sanjay Mahajani, Professor-in-charge, Tata Centre, IIT
Bombay

9.05 am – 9:15 am Inaugural address by **Prof. Devang V. Khakhar**,
Director, IIT Bombay

9.15 am – 10.00 am Keynote address by Guest Speakers

Prof. Jyeshtharaj Joshi, Padma Bhushan, Chemical Engineer

10.00 am – 11.30 am Panel Discussion 1

Technological Innovation for Social Impact – Challenges and
Differences in Perspective

Speakers: **Robert James Stoner**, Director, Tata Center for Technology and
Design, MIT, USA

Prof. Bhallamudi Ravi, Institute Chair Professor, Department of
Mechanical Engineering, IIT Bombay

Prof. Santosh Noronha, Department of Chemical Engineering, IIT
Bombay

Manoj Kumar, Co-Founder and CEO, Foundation for Innovation and
Social Entrepreneurships & Head, Institutions, Innovation &
Entrepreneurships, Tata Trusts

A Gurunathan, Director, Tata Dhan Academy & Program Leader,
Dhan Foundation

Moderator: **Dr. Murali Sastry**, CEO, IIT B Monash Research Academy, India

11.30 am – 11.45 am Tea & Snacks

11.45 am – 1.00 pm Lightning Presentations and Discussions -

The **Healthcare** Domain - Proposed Solutions

Prof. Santosh Noronha - Cervical cancer screening

Prof. Debjani Paul - A mobile phone microscope with applications in
point-of-care diagnostics and health education – **Session Chair**

Prof. Jayesh Bellare - Low cost bone graft for bone reconstruction

Prof. Narendra Shah - Ready-to-use therapeutic foods for
malnourished children

Prof. Soumyo Mukherji - Billiscope: Jaundice detection in neonates

Lin Zhao - Low-cost high temperature and pressure sterilization at
one-sun

Dr. Richard Fletcher - Mobile technology for point of care screening
and diagnostic

1.00 pm – 2.00 pm Lunch

2.00 pm – 4.00 pm Lightning Presentations & Discussions -

Food & Agriculture, Energy, Education & Waste Management
Domains

Prof. Parag Bhargava - Development of indigenous screen-printable
silver paste for solar PV

Prof. Milind Rane - Compact efficient modular water based biogas
scrubber

Prof. Vivek Agarwal - Design and fabrication of power electronic
controllers for certain home appliance motors

Prof. Narendra Shah - Evaluation of the performance of traditional
seed storages and design and development of seed storage system for
community level seed banks and marginal farmers

Prof. Alka Hingorani - LETS Learn English Through Stories

Prof. Gajananrao Jadhav - Process design for the reclamation of waste sand from small foundries

Prof. Ahmed F Ghoniem -Tata Center for Technology and Design, MIT, USA

Dr. Chintan Vaishnav - Tata Center for Technology and Design, MIT, USA

Prof. Shireesh Kedare, IIT Bombay – **Session Chair**

4.00 pm – 4.15 pm Tea & Snacks

4.15 pm – 5.00 pm **Bridging Waters with Science, Technology & Communities**

Dr. Rajendra Singh, Winner of the Magsaysay Award, Stockholm Water Prize, Water Man of India

5.00 pm – 6.30 pm Panel Discussion 2 –

Young Entrepreneurs Championing the Social Cause

Speakers: **Samuel Rajkumar**, CEO and Co-founder – Foundation for Environmental Monitoring, Bengaluru

Arun Muruges, Lead, Saahas Zero Waste, Bengaluru

Manas Nanda, CEO and Founder, Harvest Wild

Lewitt Somarajan, Founder & CEO, Life-Lab, Pune

Akanksha Hazari, CEO & Founder, mPaani, Mumbai

Moderator: **Varun Kashyap** – Co-Founder and Chief Evangelist, LetsEndorse, Bengaluru

6.30 pm -7.15 pm **Short Notes** – Session chaired by **Prof Arti Kalro**

6.30 pm – 6.45 pm **Nakul Saran**, Head, Special Projects and Sustainability Initiatives

6.45 pm – 7.00 pm **Shrashtant Patara**, Senior Vice President, Development Alternatives

7.00 pm – 7.15 pm **Varun Kashyap**, Co-Founder and Chief Evangelist, LetsEndorse, Bengaluru

7.15 pm onwards Dinner

Day 2 – 18th January, 2018

- 8.45 am – 9.00 am Tea
- 9.00 am – 10.00 am Keynote address by Guest Speaker
Dr. Raghunath Mashelkar, Padma Vibhushan, Padma Bhushan,
Padma Shri
- 10.00 am – 11.30 am Panel Discussion –
What do Innovations start with - Technological Breakthroughs or The
Need?
- Speakers: **Prof. Alka Hingorani**, IDC School of Design, IIT Bombay
Deepa Soman, Founder and Managing Director, Lumière Business
Solutions Pvt Ltd
Yogesh Kalkonde, Public Health Researcher, Society for Education,
Action and Research in Community Health (SEARCH), Gadchiroli
GG Sohani, President, BAIF Development Research Foundation,
Pune
Prof. Bino Paul, Dean, School of Management and Labour Studies,
Tata Institute of Social Sciences, Mumbai
Sunderrajan Krishnan, Director, India Natural Resource Economics
and Management Foundation (INREM), Anand, Gujarat
- Moderator: **Prof. Ramaswamy C. Anantheswaran**, Director for Education by
Non-Traditional Delivery & Chair of the Cocoa, Chocolate, and
Confectionary Research Group, Penn State University
- 11.30 am – 11.45 am Tea & snacks
- 11.45 am – 1.00 pm **Poster presentations**
- 1.00 pm – 2.00 pm Lunch
- 2.00 pm – 4.00 pm Lightning Presentations and Discussions -
The **Water** Domain: Proposed Solutions

Prof. Soumyo Mukherji - EIS platform for bacteriological monitoring of water

Prof. Soumyo Mukherji - Heavy metal sensing in water using optical fiber sensors

Prof. Rajdip Bandyopadhyaya - Detection and sensing of arsenic in drinking water

Prof. Suparna Mukherji - Characterization of grey water and development of a cost effective system for grey water recycling

Prof. James Wescoat –Tata Center for Technology and Design, MIT, USA

Dr. Chintan Vaishnav –Tata Center for Technology and Design, MIT, USA – **Session Chair**

Prof. Rohit Karnik - Tata Center for Technology and Design, MIT, USA

4.00 pm – 4.15 pm Tea & Snacks

4.15 pm – 5.30 pm **Short Notes** – Session chaired by **Prof Shishir Jha**

4.15 pm – 4.30 pm **Prof. Chetan Solanki**, Department of Energy Science and Engineering, IIT Bombay & Founder, KWatt Solutions, IIT Bombay

4.30 pm – 5.00 pm **Prabhat Pani**, Head, Partnerships and Technology Platforms, Tata Trusts

5.00 pm – 5.30 pm **Transforming Innovations to Unaddressed Needs**
Address by **Dr. Harish Hande**, Managing Director, SELCO-India

5.30 pm - 5.45 pm Valedictory Function

5.45 pm onwards Tea and snacks