

Humboldt Kolleg on
Innovation & Entrepreneurship: Role of Science & Technology
By
Humboldt Academy, Pune Chapter

January 31, February 1-2, 2019
Venue: Prakruti Resorts, Kashid, Maharashtra, India

FINAL PROGRAMME
(Talk time includes presentation & discussion)

DAY-1
Thursday, January 31, 2019

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|-------------------|---|
| 12.00 – 14.00 h | Registration & Lunch |
| 14.00 – 14.30 h | Inauguration |
| 14.30 – 15.15 h | Plenary Lecture: Connecting Academic R&D with Product Innovation: A few case studies and a way forward Prof. V. Ramgopal Rao, Director, IIT, Delhi |
| 15:15 – 15.45 h | Tea/Coffee Break |
| Session I: | Clean Energy, Fuel, Batteries and Materials |
| 15:45 – 16.15 h | <u>Lecture-1:</u> New Catalysis for light alkanes – from oxidative dehydrogenation of alkanes to methane functionalization Prof. Dr. Johannes A. Lercher (Technische Universität München) |
| 16:15 – 16.45 h | <u>Lecture-2:</u> Possibly Scalable Solar Hydrogen Generation by Water Splitting Dr. C. S. Gopinath (NCL, Pune) |
| 16:45 – 17.15 h | <u>Lecture 3:</u> Energy devices with resistance to mechanical fatigue Dr. K. Krishnamoorthy (NCL, Pune) |
| 17.15 – 17.35 h | Flash talks (10 talks of 90 sec. each by poster presenters) |
| 17.35 – 18.05 h | <u>Lecture 4:</u> Connecting academic excellence worldwide – Introduction to the fellowship programmes of the Alexander von Humboldt Foundation Dr. Thomas Hesse (AvH, Bonn) |
| 19.00 – 22.00 h | Mixer & Dinner (2 min informal talks by Young and “Younger” Humboldtians about their experience in Germany). |

DAY-2
Friday, February 01, 2019

Session II

Science and Innovation - 1

- 09.30 – 10.00 h Lecture-5: Chemistry: Key Enabler to provide solutions for current and future needs.
Dr. Dietmar Hueglin (BASF, Mumbai)
- 10.00 – 10.30 h Lecture-6: Exciting the public about science, one cup at a time! The journey of Chai and Why?
Prof. Arnab Bhattacharya (TIFR, Mumbai)
- 10.30 – 11.00 h Lecture-7: Regulation of Interparticle Interactions for Advanced Nanoparticle Functions
Dr. Pramod P. Pillai (IISER, Pune)
- 11.00 – 11.30 h **Tea/Coffee Break**

SESSION-III

Affordable Healthcare and Diagnostics

- 11.30 – 12.00 h Lecture-8: Compact NMR for Nondestructive Testing and Chemical Analysis: From Basic Science to Industry
Prof. Dr. Bernhard Blümich (RWTH, Aachen University)
- 12.00 – 12.30 h Lecture-9: The Future of Magnetic Resonance (NMR & EPR) in the Biological and Medical Fields: An Overview
Prof. S. Subramanian (IIT, Madras)
- 12.30 – 13.00 h Lecture-10: OncoDiscover Liquid Biopsy Technology: Translation from Lab to Clinic
Dr. Jayant Khandare (Actorius Innovations & Research Pvt. Ltd., Pune)
- 13.00 – 14.00 h **Lunch Break**

SESSION-IV

Affordable Healthcare and Diagnostics

- 14.00 – 14.30 h Lecture-11: Probes for Understanding Mood (Structure) Swings in Nucleic Acids
Dr. S. G. Srivatsan (IISER, Pune)
- 14.30 – 15.00 h Lecture-12: Extracellular matrix stiffness and Organization regulate Receptor tyrosine kinase signaling and mitochondrial activity in cancer cells.
Dr. Atul Bharde (SPPU, Pune)
- 15.00 – 15.30 h **Flash talks (15 talks of 90 sec. each by poster presenters)**
- 15.30 – 16.00 h **Tea/Coffee Break**

16.00 – 16.30 h **Flash talks (15 talks of 90 sec. each by poster presenters)**

16.30 – 18.00 h **Poster presentation**

19.00 Onwards **Entertainment followed by dinner**

DAY-3

Saturday, February 02, 2019

SESSION-V Sustainable and Eco Safer Agriculture

09.30 – 10.00 h Lecture-13: Secrets of Alphonso Mango Fruit Flavor
Dr. Ashok P. Giri (NCL, Pune)

10.00 – 10.30 h Lecture-14: Role of the Middle Atmosphere in Climate
Prof. Dr. Franz-Josef Lübken (Leibniz-Institute of Atmospheric Physics)

SESSION-VI Science and Innovation -2

10.30 – 11.00 h Lecture-15: Sustainability in Catalysis and Materials
Dr. Samir H. Chikkali (NCL, Pune)

11.00 – 11.30 h **Tea/Coffee Break**

11.30 – 12.00 h Lecture-16: Scanning electrochemical microscopy of energy materials
Prof. Dr. Gunther Wittstock (University of Oldenburg)

12.00 – 12.30 h Lecture-17: Mimicking Transition Metal Chemistry with Main-group Compounds for Frugal and Sustainable Catalysis
Dr. Sakya S. Sen (NCL, Pune)

12.30 – 13.00 h Lecture-18: Innovation and Entrepreneurship at Savitribai Phule Pune University: Concept to Market
Prof. Nitin Karmalkar, Vice Chancellor (SPPU, Pune)

13.00 – 14.15 h **Lunch**

SESSION-VII Panel Discussion & Conclusion

14.15 – 15.30 h Panel discussion

15.30 – 16.00 h Conclusions, Poster awards and vote of thanks

16.00 – 16.30 h **Tea/Coffee Break**

Departures; Auf wiedersehen!