



**IITB-NTU workshop**  
**on**  
**chemical and biological sciences**  
**driven sustainability**

5<sup>th</sup>-6<sup>th</sup> October, 2023

5 <sup>th</sup> October, E-MBA conference room, IIT Bombay		
09:00	Inauguration and welcome remarks	
09:20	Prof. Meng How Tan	The ADAR family of dsRNA-binding proteins in development and disease
09:45	Prof. Venkateswarlu Yarlagadda	Antimicrobial drug design and discovery strategies in the era of drug resistance
10:10	Prof. MihaiELA C Stuparu	Synthesis of Curved Nanographenes
10:35	Prof. Chidambar Kulkarni	Exploring chirality-induced spin-selectivity in soft organic materials
11:00	Tea Break	
11:20	Prof. Roderick W. Bates	Synthesis of Natural and Unnatural Products
11:45	Prof. Arnab Dutta	Photocatalytic H <sub>2</sub> production by an enzyme-inspired molecular design
12:10	Prof. Edwin Yeow	Applications of lanthanide-based nanomaterials in photochemistry
12:35	Prof. Maheswaran Shanmugham	Low coordinate 3d metal complexes for efficient conversion of CO <sub>2</sub> into Methanol under mild conditions
13:00	Lunch	
14:10	Prof. Richard D. Webster	Electrochemistry and Environmental Chemistry
14:35	Prof. Sanjog Nagarkar	Glasses and liquids derived from MOFs
15:00	Prof. Howe-Siang Tan	Studying the Ultrafast Energy Transfer Processes and Spectral Diffusion Dynamics of Complex Biological and Chemical Systems using Coherent Two-Dimensional Electronic Spectroscopy
15:25	Prof. Anindya Datta	Exciton dynamics in water soluble quantum dots
15:50	Prof. Han Sen Soo	Valorization of Non-Biodegradable Plastics and Unactivated Alcohols by Ambient Condition Vanadium Photocatalysis
16:15	Tea	
16:45	Prof. Chandramouli Subramaniam	Photothermal conversion and utilization using nanostructured carbons
17:10	Prof. Tej S. Choksi	A Multiscale Understanding of how Oscillating Bubbles Orchestrate Chemistry in Sonochemical Reactors
17:35	Summary and future directions	
18:00	High Tea	

## **General guidelines**

- Presentation time is for 20 minutes with 5 minutes for discussions
- Standard Windows HDMI adaptor and laser pointers will be available. Participants are requested to bring other suitable adaptors.
- All NTU delegates are requested to assembly in the Padmavihar Guest house lobby at 8:35 AM on 5<sup>th</sup> October. Our volunteers will guide you to the venue.