



Schedule for 1st IITB-NUS joint research workshop ('ENERGY 2014')

24th & 25th February 2014 Venue: Lecture hall 33, 3rd floor, VMCC, IIT Bombay

Day 1: 24 th FEBRUARY, 2014 (times in 24 h format)	
09:30-10:00	Inaugural Session
	Inaugural address by Prof. Devang Khakhar, Director, IIT Bombay
10:00-10.25	Overview : Faculty of Engineering @ NUS
10:25-10:50	High Tea
10:50-13:00	Technical Presentation Session 1:
	(all presentations are by invitation)
	Session Chair: Prof. Rajiv. O. Dusane (Department of Metallurgical Engineering and Materials Science, IIT Bombay)
10.55-11.20	"Research at ECE@NUS and Current PES Research Directions" by Prof. Akshay Kumar Rathore, Department of Electrical and Computer Engineering, National University of Singapore
11.20-11.45	"Insights into Waste-to-Energy in Megacities through a Hybrid Approach: Centralization versus Decentralization" by Prof. TONG Yen Wah, Department of Chemical and Biomolecular Engineering, National University of Singapore
11.45-12.10	"Electrochromic Windows: Improvements in colour contrast and switching rates" by Prof. Daniel John Blackwood, Department of Materials science and engineering, National University of Singapore
12.10-12.35	"Soft Generators for Motion-Based Energy Harvesting" by Prof. Koh Soo Jin Adrian, Department of Civil and Environmental Engineering, National University of Singapore
12.35-13.00	"Thermal Management Solutions for High Power Dissipation" by Prof. Lee Poh Seng, Department of Mechanical Engineering, National University of Singapore

13:00-14:00	Lunch	
14:00-15:45	STUDENT POSTER PRESENTATION (as contributed)	
	and Tea	
15:45-16:00	Overview: Engineering and Research @ IITB	
13:43-10:00	by Prof. Prasanna M. Mujumdar, Dean of Research and	
	Development, IIT Bombay	
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16:00-17:40	Technical Presentation Session 2:	
	(all presentations are by invitation)	
	Session Chair: Prof. Rangan Banerjee (Department of Energy Science and Engineering, IIT Bombay)	
	Science and Engineering, III Bombay)	
16.00-16.25	"Electrochemical oxygen reduction on "core-shell" nanoparticle	
	catalysts: The effect of core" by Prof. Arindam Sarkar, Department	
	of Chemical Engineering, IIT Bombay	
16.25-16.50	"Metallic Nano/Micro-structures for Controlling Electromagnetic	
	Wave" by Prof. Shobha Shukla, Department of Metallurgical	
	Engineering & Materials Science, IIT Bombay	
16.50-17.15	"Demand response and distributed storage" by Prof. Suryanarayana	
10.30-17.13	Doolla, Department of Energy Science and Engineering, IIT	
	Bombay	
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17.15-17.40	"Fabrication of dye sensitized solar cells and their aging behaviour" by Prof. Parag Bhargava, Department of Metallurgical Engineering	
	& Materials Science, IIT Bombay	
19:30	Banquet Dinner at Mantra Dining Bar, Hiranandani Ground,	
	Powai	
Day 2: 25 th F	FEBRUARY, 2014 (times in 24 h format)	
Day 2. 25 FEDRUARI, 2014 (times in 24 ii format)		
9:30-10:45	Technical Presentation Session 3:	
	(all presentations are by invitation)	
	Session Chair: Prof. B. M. Arora, Department of Electrical	
	Engineering, IIT Bombay	
9.30-9.55	"Lithium-ion Battery: Advances in New Anode and Cathode	
	Materials" by Prof. Sagar Mitra, Department of Energy Science and	
	Engineering, IIT Bombay	
9.55-10.20	"Performance trade-offs for perovskite based solar cells" By Prof.	
7.23 10.20	Pradeep R. Nair, Department of Electrical Engineering, IIT	
	Bombay	

10.20-10.45	"Polymer Light Emitting Diodes" by Prof. Dinesh Kabra, Department of Physics, IIT Bombay
10:45-12:15	Tea + Networking (with faculties and students)
12:15-13:30	Lunch
13:30-16:15	Laboratory visits
16:15-16.30	Tea
16:30-17:00	Summary and Future planning
17:00-18.00	Faculty meeting and discussion on collaboration, etc.
(extended	
session, if	
required)	