

**IITB-Monash Research Academy Opening November 2008 - Overall Schedule**

Wed 26/11	Time	Activity	Location
	08.30-9.00	Welcome to Monash Delegation	Institute Auditorium, IRCC Building
	09.00-12.30	Faculty interaction / Visit to Depts	Institute Auditorium and Depts
	09.00-10.30	Board Meeeting	Director's Conference Room, IITB
	11.00-12.30	Advisory Council Meeting	Director's Conference Room, IITB
	12.45-13.30	Press Meet (Madison)	Gulmohur Banquet Hall
	13.30-14.00	Lunch	Gulmohur Banquet Hall
	13.30-15.00	Faculty interaction / Visit to Depts	Departments
	15.30-16.30	Formal Opening	FC Kohli Auditorium
	19.30	Dinner	Renaissance Hotel, Powai
	19.30	Starters Served	
	20.15	Introduction to His Excellency John McCarthy by Richard Larkins	
	20:20	Talk by His Excellency John McCarthy: <i>On the importance of Aus-India links especially in S&amp;T &amp; education</i>	
	20:30	Thanks and response to the talk by His Excellency John McCarthy by Ms Anita Nayar, Indian Consul General, Victoria, Australia	
	20.35	Dinner Served	
<b>Thu 27/11:</b>	<b>Thematic Symposium</b>		
	<b>Computational Modelling: Structures, Materials and Fluid Mechanics</b>		
	09.00-18.00, Venue: FC Kohli Auditorium		
<b>Fri 28/11:</b>	<b>Thematic Symposium</b>		
	<b>Biotechnology and Stem Cell Research</b>		
	09.00-18.00, Venue: FC Kohli Auditorium		
<b>Sat 29/11:</b>	<b>Industry Day: Venue: FC Kohli Auditorium</b>		
<b>Industry Day</b>	09:00-18:00	Presentations by Various Industry Champions Presentations from Industry Leaders that energises, challenges & sets a 10-yr research vision for these companies/sectors.	

**IITB-Monash Research Academy Opening November 2008 - Modelling Day**

Time		Person	Organisation	Cluster	Talk Title
09:00-09.10	<b>WELCOME TO THE DAY -- Prof Devang Khakkar</b>				
09.10-09.55	Chair: Devang Khakkar	J. B. Joshi	UICT	OPENING	Insights into theories of Transport Phenomenon: An Implication to Reactor Design
09.55-10.20		A. S. Abhiraman (Georgia Tech)	Ex Uni Lever	OPENING	Modeling - Modes and Motivess
10.20-10.30	<b>MORNING TEA</b>				
10.30-10.55	Chair: Rob Norris	John Sheridan	Monash	Modelling	Fluid Dynamics Moelling: Opportunities and Challenges
10.55-11.20		S. S. Joshi	IITB	Modelling	Modeling and Development of Tool-based Micromachining Processes
11.20-11.45		B. K. Dutta	BARC	Modelling	Material Modelling from Nano-to-Micro Scale'
11.45-12.10		Ravi Jagadeeshan	Monash	Modelling	Micro & Macro in the dynamics of polymer solutions
12.10-12.35		Prita Pant	IITB	Modelling	Dislocation Based Modeling of Deformation and Phase Transformation
12.35-13.00		Fiona McClure	Monash	Modelling	Numerical Modelling of Piston Secondary Motion and Skirt Lubrication in Internal Combustion Engines
13.00-13.25		Preeti Aghalayam	IITB	Modelling	Clean Coal: Future technologies for coal utilisation
13.25-14.00		<b>LUNCH</b>			
14.00-14.25	Chair: John Sheridan	Raman Singh	Monash	Materials	Corrosion of Nanocrystalline vis-à-vis Microcrystalline Metallic Materials: An Opportunity for Modelling
14.25-14.50		Saurabh Misra	IITB	Materials	Monte Carlo Simulation of Grain Growth in the Heat-Affected Zone of Welds
14.50-15.15		Prabhakar Ranganathan	Monash	Materials	Stretchable Liquids: Using Viscoelasticity to Control Necking, Jetting, and Splattering
15.15-15.30	<b>AFTERNOON TEA</b>				
15.30-15.55	Chair: Amit Biswas	Xiaolin Zhao	Monash	Structures/G	FRP Strengthening of Steel Structures
15.55-16.20		Pradipta Banerji	IITB	Structures/G	Structural Health Monitoring of Steel Bridges to Assess the Impact of Increased Axle Loads
16.20-16.45		Jayantha Kodikara	Monash	Structures/G	Modelling of desiccation and thermal shrinkage cracking in geomaterials
16.45-17.10		D. N. Singh	IITB	Structures/G	Modeling In Environmental Geomechanics
17.10-17.35		Ranjith Pathegama	Monash	Structures/G	How feasible CO2 sequestration in coal seams: Geomechanical considerations.
17.35-17.45	<b>BREAK</b>				
17.45-18.30	Panel Discussion on the day: Devang Khakkar, A. S. Abhiraman, Amit Biswas, John Sheridan				

**IITB-Monash Research Academy Opening November 2008 - Biotech Day**

Time	Person	Organisation	Cluster	Talk Title
09:00-09.15	<b>WELCOME TO THE DAY -- Paul Verma and Swati Patankar</b>			
09.15-09.40	Alok Srivastava	CMC Vellore	Biotech and	Clinical translation of stem cell research
09.40-10.05	Paul Verma	Monash	Biotech and	Advances in generating transplantable stem cells
10.05-10.30	Dulal Panda	IITB	Biotech and	Interplay between mitosis and apoptosis: Dynamic spindle microtubules are attractive targets for cancer chemotherapy
10.30-10.50	<b>MORNING TEA</b>			
10.50-11.15	Chair: Kerry Hourigan	Monash	Bio-eng	Biomedical Engineering Imaging
11.15-11.40	K. K. Rao	IITB	Bio-eng	Label Free Optical Biosensors for Widescale Deployment
11.40-12.05	George Thouas	Monash	Bio-eng	Progress in systems for expansion of stem cells in vitro
12.05-12.30	John Forsythe	Monash	Bio-eng	Advances in Neural Tissue Engineering
12.30-13.30	<b>LUNCH</b>			
13.30-13.55	Chair: Brian Cooke	Monash	Biology and	The molecular rheology of malaria infection
13.55-14.20	Dulal Panda	IITB	Biology and	Malaria noncoding RNAs: Genomics and Bioinformatics
14.20-14.45	Ross Coppel	Monash	Biology and	Alternative Methods of Production and Delivery of Subunit Vaccines for Malaria
14.45-15.10	Rinti Banerji	IITB	Biology and	Gene Therapy
15.10-15.30	<b>AFTERNOON TEA</b>			
15.30-15.55	Chair: Huseyin Sumer	Monash	Biotech and	Cell fusion based reprogramming
15.55-16.20	Soumyo Mukherji	IITB	Biotech and	Modulation of Glucose Transport Causes Preferential Utilization of Aromatic Compounds in Pseudomonas putida CSV86
16.20-16.45	Graeme Woodrow	CSIRO	Biotech and	The convergence of advanced materials and biology at CSIRO
16.45-17.10	N S Punekar	IITB	Biotech and	Aspergillus Biology in transition – from biochemistry to biotechnology
17.10-17.20	<b>BREAK</b>			
17.20-18.00	Panel Discussion on the day: Alok Srivastava, Paul Verma, Dulal Panda, Graeme Woodrow			

**IITB-Monash Research Academy Opening November 2008 - Industry Day**

Time		Person	Organisation	Cluster	Talk Title
09.00-09.05	<b>WELCOME: Edwina Cornish</b>				
09.05-09.30	Chair:	Dr. Partha Maitra	Reliance	Future Direc	Energy technology challenges
09.30-09.55	Edwina	Hameed Bhombal	Aditya-Birla	Future Direc	Importance of R&D for the Indian Industry
09.55-10.20	Cornish	Laks Lakshmanan	ITC R&D	Future Direc	Leadership in Shaping R&D: Culture, Processes and Metrics
10.20-10.45		Arun Viswanath and Dr Raju Konduru	Former P&G and Leader, Connect+Develop, P&G	Future Directions	Open Innovation as a vehicle to bring together unique partners
10.45-11.00	<b>MORNING TEA</b>				
11.00-11.25	Chair:	Murali Sastry	Tata Chemicals	Process / M	Innovation challenges in Tata Chemicals
11.25-11.50	Pradipta	Arun Jaura	Mahindra & Mahindra	Process / M	Trends in Automotive R&D in Dynamic Emerging Markets
11.50-12.15	Banerji	Edwin van Leeuwen	BHPB	Mining / Res	Challenges facing the mining industry
12.15-12.40		Dr A. K. Mohindru	GM, R&D, NTPC	Energy / Sus	Indian Research Challenges for Clean Power
12.40-13.30	<b>LUNCH</b>				
13.30-13.55	Chair:	Manish Gupta	IBM India Res Labs	IT & Service	Challenges and Opportunities for IBM Research in India
13.55-14.20	A. S. Abhiraman	A. V. Mohan	Satyam	IT & Service	Beyond ERP Systems - A digitally integrated manufacturing enterprise
14.20-14.55		Subu Goparau	Infosys	IT & Service	Innovation Co-Creation. Challenges and Opportunities
14.55-15.20		Aravind Sitaraman	CISCO	IT & Service	Internet: The equaliser in emerging countries
15.20-15.35	<b>AFTERNOON TEA</b>				
15.35-16.00	Chair:	Aparna Khanna	Avesthagen	Biotech & St	Stem Cells in Drug Discovery
16.00-16.25	Tam Sridhar	Uday Kumar	Invitrogen	Biotech & St	Developing defined media protocols for scale-up and differentiation of human embryonic and mesenchymal stem cells
16.25-16.50		Alka Sharma	DBT	Biotech & St	Stem Cell Research: The National Scenario
16.50-17.05	<b>BREAK</b>				
17.05-18.00	Panel Discussion: Ramesh Mashelkar, Tam Sridhar, Juzer Vasi, A. S. Abhiraman. Edwina Cornish, Pradipta Banerji				
19.30-22.00		Dinner			