

Room G29

Date	Session	Time	Themes	Organization	Name of Person	Talk Title	
March 5 2014		9:00	Introduction	Welcome & introduction to the day			
	E1	9:05	Elec Eng and Algorithms	IITB	Virenda Sule	Unified formulation of computational challenges.	
		9:35		Monash University	Ron Steinfeld	Efficient Cryptographic Multilinear Maps from Ideal Lattices and Applications	
		10:05		Monash University	Linyun Huang	On Parameter Estimation of the Envelope Gaussian Mixture Model	
		10:35		Monash University	Amin Sakzad	Integer-Forcing MIMO Linear Receivers Based on Lattice Reduction Algorithms	
	Morning Tea: 11:10 to 11:25						
	E2	11:25	Fuel Cells	IITB	Manoj Neergat	Electrocatalysis with precious metal nanomaterials	
		11:50		Monash University	Bradley Ladewig	Polymer composite gas separation membranes with exceptional gas selectivity	
		12:15		Monash University	Huanting Wang	Membranes and composite materials for fuel cells	
		12:40	Process	Monash University	Prabhakar Ranganathan	Complex Flows of Complex Fluids @ Monash	
		13:05	Modelling	CSIRO	Guy Metcalfe	The Heavens, the Earth, and the Factory Floor: On the Nature and Uses of Chaos	
	Lunch: 13.30-14.00						
	E3	14:00	Optimisation	Monash University	Guido Tak	Combinatorial Optimisation: State of the Art in Modelling and Solving	
		14:25		Monash University	Maria Garcia Dela Banda	Overview of research at FIT	
		14:50		IITB	Narayan Rangaraj	Models for Operations Management for Railways and Multi-modal transport in India	
		15:15		Monash University	Mohan Krishnamoorthy	Mathematical models and optimal algorithms for static data location in information networks	
		15:40		CSIRO	Gaurav Singh	Planning and Scheduling in Bulk Material Supply Chains	
		16:05		Monash University	Kate Smith-Miles	Introducing MAXIMA: the Monash Academy for Cross & Interdisciplinary Mathematical Applications	
16:30	CSIRO	Andreas Ernst	Recreational Vehicle Fleet Scheduling				
Closing Remarks: 17:05							

Room G30	Session	Time	Themes	Organization	Name of Person	Talk Title	
March 5 2014	Date	9:00	Introduction	Welcome & introduction to the day			
	E1	9:05	CFD and Modelling	IITB	Shivasubramanian Gopalakrishnan	Advanced Numerical Methods for Modern Computer Architectures	
		9:35		Monash	Greg Sheard	TBA	
		10:05		Monash	Michael Page	The flow of a rotating fluid at low Rossby number	
		10:35		IITB	Balaji Ramakrishnan	Coastal/Ocean Engineering Research and Education	
	Morning Tea: 11:10 to 11:25						
	E2	11:25	CFD and Modelling	Monash	Adrian Neild	Acoustic Actuated Microfluidics for Biochemistry	
		11:50		CSIRO	Mahesh Prakash	The role of flood/fire modelling in disaster management applications	
		12:15		Monash	Hugh Blackburn	High-order methods applied to transitional and turbulent flows	
		12:40		Monash	Murray Rudman	TBA	
	Lunch: 13.05-13.35						
	E3	13:35	Materials Eng, Modelling and Physics	IITB	Dinesh Kabra	Molecular Electronics: Charge Transport and Spectroscopic Based Investigation	
		14:00		Monash	Nick Birbillis	Towards more durable light metals - a Monash / IIT-B big picture	
		14:25		Monash	Terry Turney	"A Nanoparticle's Tale" - Controlling the Toxicology of Engineered Nanoparticles	
		14:50		Monash	Udo bach	Strategies Towards More Efficient Dye-Sensitized Solar Cells	
		15:15		Monash	Nikhil Medhekar	2D materials: mechanical, chemical and electronic properties	
		15:40		IITB	Ajay Panwar	Equilibrium behaviour and mechanical response of hydrophobic-hydrophilic copolymers: Single chain and dense brush systems	
		16:05		CSIRO	Ravichandar Babarao CSIRO	Next Generation materials for green technological applications : integrating experiments and modelling	
		16:30		IITB	Swaroop Ganguly	"Harnessing spins in semiconductors	
	16:55	Monash	Mainak Mujumdar	Expanding the Application Space of Graphene-Based Materials			
Closing Remarks: 17:20							