

Programme for NMR Meets Materials 5th-6th May 2017 **TCIS**, Hyderabad

5 th May 2017			
Time	Speaker	Title	
9.45 – 10.00	Dr. Polshettiwar TIFR, Mumbai	Introduction	
	/Dr. Vipin		
	Agarwal, TCIS,		
	Hyderabad		
Session Chair: Prof K.V.R. Chary			
10.00 – 10.30	Prof. P. Selvam, IIT, Chennai	Applications of solid state NMR in catalysis	
10.30 – 11.00	Dr. C.S.	Solar hydrogen generation through artificial	
	Gopinath,	photosynthesis Issues.	
	NCL, Pune		
11:00 – 11:30		Tea Break	
		on Chair: Anusha Gopalan	
11.00 – 11.30	Dr. S.	Methods and applications of solid state NMR	
	Ganapathy,	spectroscopy in materials characterization	
	NCL, Pune		
11.30 – 12.00	Prof. P. K.	NMR of materials: spins, nuclei, information, and grey	
	Madhu, TIFR,	issues	
	Mumbai/TCIS,		
	Hyderabad		
12.30 - 14.00		Lunch Break	
	1	on Chair: Kshama Sharma	
14.00 – 14.30	Dr. Abhijit Patra, IISER, Bhopal	Multifunctional porous organic polymers	
14.30 – 15.00	Dr. Shubhangi,	Need of multinuclear NMR in	
	NCL, Pune	homogeneous/heterogeneous catalysis - Study of mechanism and catalyst deactivation	
15.00 – 15.30	Dr. T.G.	Insights into polymers, magnetic materials and catalysts	
	Ajithkumar, NCL	from solid-state NMR investigation	
	Pune		
15.30 – 16.00			
	1	ession Chair: Mukul Jain	
16.00 – 16.30	Dr. Sebastian C.	Design and development of non-Pt based compounds as	
	Peter, JNCSAR,	efficient catalysts for the green energy production in fuel	
	Bangalore	cell: The role of ordering, defects, substitution, dealloying and phase transition in improving the activity	
16.30 – 17.00	Dr. Vipin Agarwal	Structure and properties of polyolefinic polymers	
17.00 – 17.30	Dr. Vivek	Morphology controlled nanomaterials: formation	
	Polshettiwar	mechanism, catalysis and CO2 capture	
17.30 – 18.00		Tea Break	
18:00 – 18:15	Dr Chandrakala	Solid-state NMR structures of conducting polymers	
	Gowda, TCIS,		



TATA INSTITUTE OF FUNDAMENTAL RESEARCH (Autonomous Institution of the Department of Atomic Energy, Government of India) TIFR Centre for Interdisciplinary Sciences

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	Hyderabad		
18.15 – 19.15	Round table discussion (Prof P.K. Madhu, Dr. C.S. Gopinath, Prof. P.		
	Selvam and Dr. S. Ganapathy)		
19.15-22.00	Dinner		
6 th May 2017			
Time	Speaker	Title	
Session Chair: Rajalakshmi			
9.30 - 10.00	Dr. Sudhanshu	Oxidation state and catalysis: a case study of	
	Sharma, IIT,	platinum	
	Ghandinagar		
10.00 - 10.30	Dr. Tapas Mandal,	Layered titanates, vanadates and phosphates:	
	IIT, Roorkee	applications in photocatalysis and energy storage	
10.30 – 11.00	Dr. Kaustubh Mote,	Proton detection at slow-moderate MAS frequencies	
	TCIS, Hyderabad	for analysis of materials and material surfaces	
11.00 – 11.30	Tea Break		
Session Chair: Sumit Bawari			
11.30 – 12.00	Dr. S. Jayanthi,	Restricted dynamics of Molecules in mesopores - a	
	IIST,	dynamic model using deuterium MAS NMR and	
	Thiruvananthapuram	molecular dynamics	
12.00 – 12.15	Dr. Anand and Dr.	Possibilities of NMR studies on the mechanisms of	
	Sreekanth, TCIS,	ion transport, membranes and electrochemical	
	Hyderabad	reactions	
12.15 – 12.45	Prof. J. Bera, IIT,	Water as reagent in organometallic catalysis	
	Kanpur		
12.45 - 14.00	Lunch Break		
14.00 - 14.30	Conclusions: Prof. J. Bera, Dr. Polshettiwar and Dr. Vipin Agarwal		