

**2<sup>nd</sup> International Workshop on “Ionic Liquids: Alternative Benign Materials for Renewable Energy and its Applications”**  
**16 - 17 January 2013**  
**Scientific Program**

**Wednesday, 16.01.2013**

9.00-9.30	Registration
9:30-9:40	Welcome and Introductory Remarks S. Pal, Director National Chemical Laboratory, Pune, India
9:40-10:00	Genesis of NARILAR Project A. Coronas, University Rovira i Virgili, Tarragona, Spain
<b>10:00-10:30</b>	<b>Coffee break</b>
10:30-11:00	A 25-year long journey starting with absorption heat pumps to ionic liquids via Thermodynamics Anil Kumar, National Chemical Laboratory, Pune, India
11:00-11:30	Novel Thermal and Electrical Properties Sensors for New Energy and Benign Environmental Applications Maria Jose Lourenço, University of Lisbon, Lisbon, Portugal
11:30-12:00	Rheology of Ionic Liquids and Ionanofluids Fernando Santos, University of Lisbon, Lisbon, Portugal
12:00-12:20	Synthesis and characterization of graphene; measurement of thermal conductivity of graphene nanofluids and ionic liquids Sagar H. Patil, National Chemical Laboratory, Pune, India
12:20-12:40	Ibiofluids: Alternative fluids for Renewable Energy Carla S Queiros, University of Lisbon, Lisbon, Portugal
12:40-13:00	Paints with Ionanofluids as pigments for improvement of heat transfer applications Salome C. Vieira, University of Lisbon, Lisbon, Portugal
<b>13:00-14:00</b>	<b>L U N C H (for all participants)</b>
14:00-14:30	Synthesis, Properties and Physical applications of Ionanofluids- A Brief Outline Carlos A. Nieto de Castro; University of Lisbon, Lisbon, Portugal
14:30-14:50	Nanofluids: Characterisation by XPS and TEM. K. R. Patil, National Chemical Laboratory, Pune, India
14:50-15:10	Technical requirements for alternate working pair in vapor absorption system Sameer Kulkarni, Devadatta Navale, R.D. Aga Research Technology & Innovation center, Thermax Limited, Pune, India
15:10-15:30	Modelling of Volumetric Behaviour and Phase Equilibria of Some Natural Refrigerant/Ionic Liquid Mixtures for Absorption Refrigeration Systems using PC-SAFT Model Daniel Salavera, University Rovira i Virgili, Tarragona, Spain
<b>15:30-15:50</b>	<b>Coffee break</b>
15:50-16:10	Ionic Liquids in alcoholic Environment. A thermal Quest for the perfect solvent pairs, Gitanjali Rai, National Chemical Laboratory, Pune, India
16:10-16:30	Applications of Ionic Liquids C. V. Rode, National Chemical Laboratory, Pune, India
16:30-16:50	Polarity of Ionic Liquids Shashikant Shukla, National Chemical Laboratory, Pune, India
16:50-17:20	Present status of the research in absorption technology using ionic liquids Alberto Coronas, Universitat Rovira i Virgili, Tarragona, Spain
	<b>End of Program</b>
<b>19:30</b>	<b>DINNER</b>

<b>Thursday, 17.01.2013</b>	
9:30-10:00	Theoretical performance of a single effect system with some ionic liquid-refrigerant combinations Sumit Swarnakar, S. Srinivasa Murthy and G. Venkatarathnam, Indian Institute of Technology, Chennai, India
10:00-10:30	Catalytic applications of ionic liquids B. M. Bhanage, Inst. Chemical Technology, Mumbai, India
10:30-10:50	Synthesis, Characterization and Measurement of some Thermophysical Properties of Ammonium based Ionic Liquids Andry R. Cera, University Rovira i Virgili, Tarragona, Spain
10:50-11:10	Preparation and Characterization of Gold Nanofluids. Virendra Patil, National Chemical Laboratory, Pune, India
<b>11:10-11:30</b>	<b>Coffee break</b>
11:30-11:50	Influence of Biocompatible Ionic Liquid on folding and refolding state of biomolecules Pannuru Venkatesu, University of Delhi, Delhi, India
11:50-12:20	Group Contribution Methods and QSPR Correlations for Predictions of Thermophysical Properties of Ionic Liquids Ramesh Gardas, Indian Institute of Technology Madras, Chennai, India
12:20-12:40	Performance Analysis of Absorption Refrigeration Cycles with some ammonia/IL mixtures with ASPEN PLUS Hifni Mukhtar Ariyadi, University Rovira i Virgili, Tarragona, Spain
12:40-13:00	Thermophysical properties of New systems for absorption Refrigeration. I – Ionic Liquid + Water and ionanofluids Sofia Molias, Sumit Swarnkar, Filipe Reis, João França, Fernando Santos, Maria José Lourenço, Carlos Nieto de Castro and Alberto Coronas; University of Lisbon, Lisbon, Portugal
13:00-13:20	Excess molar properties for binary systems of CnMIM-BF <sub>4</sub> ionic liquids with cyclic ethers in the temperature range (298.15-318.15) K. Experimental results and theoretical model calculations Naved I. Maleka, A. Durrani, Applied Chemistry Department, S. V. National Institute of Technology, Surat- India
13:20-13:40	Synthesis, characterization and measurement of some thermophysical properties of [C8MIM] [I] and water/[C8MIM] [I] mixtures Tausif Altamash, Universitat Rovira i Virgili, Tarragona, Spain
13:40-13:50	Concluding remarks
<b>13:50-15:00</b>	<b>L U N C H (for all participants)</b>
15:00	<b>End of Program</b>