

FM2013 - PROGRAM

Day -1: 7th February 2013

18:00–20:00 *Registration*

Day -2: 8th February 2013

09:00–09:45 *Registration (contd.)*

09:45–10:00 *Welcome address (Tanusri Saha-Dasgupta)*

Chairperson: **P. M. Oppeneer (Uppsala University, Sweden)**

10:00–10:40 *Organic-based Magnets: New Metalorganic Materials for this Millennium*
J. S. Miller (University of Utah, USA)

10:40–11:10 **Tea / Coffee**

11:10–11:50 *Fused Azulenes- Molecular Multiferroics?*
S. Ramasesha (IISc, Bangalore)

11:50–12:15 *A recent advancement of DFT based methodology in predicting the magnetic, structural and dynamical properties of open-shell magnetic molecules*
Md. E. Ali (Bochum University, Germany)

12:15–12:55 *The Non-bonding Orbital of Phenalenyl: A Safe Nest for Electron*
S. Mandal (IISER, Kolkata)

13:00–14:00 **Lunch**

Chairperson: **S. De (IACS, Kolkata)**

14:00–14:40 *Magnetism and Magnetoresistance at Ferromagnet-organic molecule Interface*
J. Moodera (MIT, USA)

14:40–15:20 *Bimodal Functionality and Gated CO₂ Uptake in Flexible MOFs*
T. Maji (JNCASR, Bangalore)

15:20–15:50 **Tea / Coffee**

15:50–16:30 *Heterometallic (3d/4f) and homometallic (4f) ensembles: new families of molecule-based magnets*
V. Chandrashekar (TIFR, Hyderabad)

16:30–17:10 *Building-block approach to design new “Single Chain Magnets” and related materials*
R. Clérac (CRPP, Pessac, France)

17:10–17:35 *Tuning magnetism of organometallics by point defects in graphene*
B. Sanyal (Uppsala University, Sweden)

18:30–20:00 **Cultural programme by Ms. Swagata Lakhmi Dasgupta**

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Day-3: 9th February 2013

Chairperson:	M. Sanyal (SINP, Kolkata)
09:00–10:00	Special lecture <i>Graphene, Graphene Mimics and their Novel Attributes</i> C.N.R. Rao (JNCASR, Bangalore)
09:40–10:20	<i>X-ray spectroscopic studies of paramagnetic porphyrin molecules on graphene</i> W. Kuch (Freie Universität Berlin, Germany)
10:20–10:50	Tea / Coffee
Chairperson:	T. Saha-Dasgupta (SNBNCBS, Kolkata)
10:50–11:30	<i>TM-phthalocyanines and Porphyrins for Electronic Devices</i> J. Yakhmi (BARC, Mumbai)
11:30–12:10	<i>Achieving enhanced electronic and optoelectronic functionality with hybrids of atomically thin semiconductor membranes</i> A. Ghosh (IISc, Bangalore)
12:10–12:35	<i>Electronic structure and magnetic interactions at the metal-organic molecule/ substrate interface: New insights</i> P. M. Oppeneer (Uppsala University, Sweden)
12:40–14:00	Lunch
Chairperson:	A. Mookerjee (SNBNCBS, Kolkata)
14:00–14:40	<i>Architected interfaces and materials at surfaces: A microscopic and spectroscopic view into the site-specific behaviour of atoms, molecules and electrons</i> T. A. Jung (Paul Scherrer Institut, Switzerland)
14:40–15:20	<i>Tuning Spin-States in Planar Metal-Organics Assembled on Surface</i> N. Ballav (IISER, Pune)
15:20–15:50	Tea / Coffee
15:50–16:30	<i>Spin-hybrid systems constructed from metalorganic molecules: from FePc single-deckers to DyPc₂ double-deckers</i> H. Wende (Universität Duisburg-Essen, Germany)
16:30–18:00	Poster Session
19:00–	Conference dinner

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Day-4: 10th February 2013

Chairperson:	I. Dasgupta (IACS, Kolkata)
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09:00–09:40	<i>The Hybrid Organic-Ferromagnetic Interface</i> S. Blügel (Forschungszentrum Jülich, Germany)
09:40–10:20	<i>Porous Solids through a Metal-Organic Approach</i> R. Murugavel (IIT, Mumbai)

10:20–10:50	Tea / Coffee
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10:50–11:30	<i>Electronic structure of metal-phthalocyanines: beyond standard density functional theory</i> L. Kronik (Weizmann Institute of Science, Israel)
11:30–11:55	<i>Near Edge Absorption Fine Structure (NEXAFS) and Photoelectron Spectroscopy (PES) Calculations of Carbon-based Conjugated Molecules and Macrocycles</i> B. Brena (Uppsala University, Sweden)
11:55–12:20	<i>Nanohybrids: The Materials for Energy, Environment and Biology</i> S. Pal (S.N. Bose Centre, Kolkata)

12:20–14:00	Lunch
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Chairperson:	M. Kumar (SNBNCBS, Kolkata)
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14:00–14:40	<i>Molecular route to spin memory devices</i> K. Raman (IBM India, Bangalore)
14:40–15:05	<i>First-principles Study of Spin-Crossover Polymers</i> T. Saha-Dasgupta (S.N. Bose Centre, Kolkata)
15:05–15:15	Concluding remarks (P. M. Oppeneer)
