

Programme Schedule
International Conference on Functional Oxides and
New Carbon Materials
(CFOCM-2012)

MAY 6, 2012

17.00 – 18.00 –	Registration
Session 1: Chairperson –	A.K.Raychaudhuri (SNBNCBS)
18.00 – 18.15 –	Welcome Address by J. K. Bhattacharjee (Convenor)
18.15 – 19.00–	Evening Talk by P.Ganguly (Retired Professor NCL,Pune) <i>Functional Oxide Materials: Separation of properties by Size, Spin and Charge</i>
19.30 – 21.30–	Director's Dinner at Stadel

May 7, 2012

Session 2: Chairperson –	A. Ganguli (IIT, Delhi)
09.00 – 09.45–	Opening Lecture – R. Pohl (Cornell, USA) <i>Lattice Vibrations of Amorphous Solids and Disordered Crystals</i>
09.45 – 10.15–	Tea/Coffee Break
10.15 – 10.45–	T.V. Ramakrishnan (IISC, Bangalore)

Phenomenological Ginzburg Landau Like Theory for High Temperature Superconductivity in the Cuprates: Emergent d-wave Order

10.45 – 11.15–

R.C Budhani (NPL, Delhi)
Quantum Phases and Phase Transitions in Two Dimensional Superconductors

11.15 – 12.00–

Break

Session 3: Chairperson – D. Chakrabarty (IACS)

12.00 – 12.30–

S.Duttgupta (Visvabharati, Shantiniketan)
Quantum Dissipation in Graphene

12.30 – 13.00–

P. Chaddah (UGC-DAE CSR, Indore)
Tunable phase-coexistence in functional magnetic oxides

13.00 – 14.30–

Lunch

Session 4: Chairperson – I.Dasgupta (IACS)

14.30 – 15.00–

R. Mahendiran (NUS, Singapore)
Interplay of 4f-3d interaction and novel dynamical magnetotransport in Mn-oxides

15.00 – 15.30 –

A. Ghosh (IISc, Bangalore)
Origin of Flicker Noise in Ultra-thin Membranes

15.30 – 16.00 –

M.Sanyal (SINP, Kolkata)
Metallic behavior of polymer nanowires

16.00 – 16.30 –

Tea /Coffee Break

16.30 – 18.00 –

Poster Session

18.00– 19.30 –

Felicitation of A.K. Raychaudhuri on the occasion of his 60th birthday

19.30 –

Conference Dinner at SNBNCBS Lawn

MAY 8, 2012

Session 5: Chairperson – T.Saha-Dasgupta (SNBNCBS)

9.00 – 9.30 –

D.E. Logan (Oxford University, UK)
Locally correlated electrons: models and reality

9.30 -10.00 –

H.R.Krishnamurthy (IISc, Bangalore)
Possibilities of novel phases in Strongly Correlated Band Insulators

10.00 – 10.30-

K.Damle (TIFR, Mumbai)
Vacancy-induced spin textures and their interactions in a classical spin liquid

10.30 – 11.00 –

Tea/Coffee Break

Session 6: Chairperson – A. Barman (SNBNCBS)

11.00 – 11.30 –

A. Sundaresan (JNCASR, Bangalore)
Ferroelectricity in Rare-earth Orthochromites

11.30 – 12.00 –

P. Raychaudhuri (TIFR, Mumbai)
Berezinski-Kosterlitz – Thoules transition in ultrathin superconducting films

Session 7: Chairperson – S. Puri (JNU)

12.00-12.30 –

S. Banerjee (IIT, Kanpur)
Competition between magnetism and superconductivity in an underdoped iron pnictide superconductor

12.30 – 13.00–

K.Nagapriya (GE, Bangalore)
Torsional Electromechanics of Carbon and Inorganic Nanotubes

13.00 – 13.30 – A. Bid (IISC, Bangalore)
*Interactions in an Electronic Fabry-Perot Interferometer
operating in the Quantum Hall Effect Regime*

13.30 – 15.00- Lunch

Session 8: Chairperson – P. Mahadevan (SNBNCBS)

15.00 – 15.30 – D.Kumar (JNU, Delhi)
Magnetism of Cluster Compounds

15.30 -16.00 – A. Mookerjee (SNBNCBS, Kolkata)
*The Harbola-Sahni approach to the band gap and excited
states in semi-conductors and insulators*

16.00 – 16.30 – A.K Majumdar (IISER, Kolkata)
*Anomalous Hall effect in ferromagnets: bulk to
nanometer size entities*

16.30 – 17.00 – S. Banerjee (SINP, Kolkata)
*Unknown realm of magnetism in oxide, graphene and
quasicrystal.*

17.00 – 17.15 – Closing Remarks

17.15 – 17.30 – Refreshments