

Indo – French School and Conference on the
"Magnetism of Molecular Systems"
Solid State and Structural Chemistry Unit
Indian Institute of Science, Bangalore – 560 012

Conference Programme

Thursday, November 29, 2018

Session I : 9:00 AM – 10:30 AM

Chair: J. P. Sutter

9:00 AM - 9:30 AM: **V. Chandrasekhar** "Single Molecule Magnets
Containing Lanthanide and Transition Metal ions"

9:30AM - 10:00 AM: **Valerie Marvaud** "Light Induced Magnetism in
Molybdenum and Tungsten Complexes"

10:00 AM - 10:30 AM: **Helene Bolvin** "Magnetic Properties of f Magnetic
Centers with Quantum Chemistry Tools"

10:30 AM - 11:00 AM Tea/Coffee

Session II: 11:00 AM – 1:00 PM

Chair: V. Chandrasekhar

11:00 AM - 11:30 AM: **Karthik V. Raman** "Probing magnetic anisotropy at
molecule-transition metal interfaces"

11:30 AM - 12:00 Noon: **S. M. Yusuf** "Revealing Novel Magnetic Properties in
Prussian Blue, Oxalate and Phenanthroline based Molecular Compounds "

12:00 Noon - 12:30 PM: **Virgine Bereau** " $[M(\text{NCQ})_6]^{2-/3-}$ (M = Re^{IV}, Mo^{III}, Q =
S, Se) : Building Blocks for the Preperation of Magnetic Hetrometallic {3d-
4(5)d} Architectures"

12:30 PM - 1:00 PM: **Jerome Long** "Multifunctional molecule-based magnets:
slow relaxation, luminescence and above room-temperature ferroelectricity"

1:00 PM - 2:00 PM

Lunch

2:00 PM - 3:30 PM

Poster Session & Tea/Coffee

Session III : 3:30 PM – 5:30 PM

Chair: **Swapan K. Pati**

3:30 PM - 4:00 PM: **V. Baskar** "Organoantimony Oxo Clusters and Functionalized β -diketone for Assembling Lanthanide clusters and their magnetic properties"

4:00 PM - 4:30 PM: **Nayanmoni Gogoi** "Effect of Structural Distortions on Single Ion Magnetic Anisotropy"

4:30 PM - 5:00 PM: **Nathalie Guihery** "Study of the Electronic Structure of NiGa_2S_4 and Extraction of the Spin Hamiltonian Parameters from *Ab Initio* Calculations"

5:00 PM - 5:30 PM: **Ehesan Ali** "First Principle Investigations of Magnetic Anisotropy of Metalorganic Molecules"

Friday, November 30, 2018

Session IV : 9:00 AM – 10:30 AM

Chair: **Talal Mallah**

9:00 AM - 9:30 AM: **Manoranjan Kumar** "Multipolar phases in Frustrated Spin-1/2 Chain in Presence of Long Range interaction"

9:30 AM - 10:00 AM: **Rodolphe Clerac** "Optical and Magnetic Molecular Switches: from Solid State to Solution"

10:00 AM - 10:30 AM: **Swapan Pati** "Computational Modeling of Thermoelectric Junction to Spintronics and Spinterface"

10:30 AM - 11:00 AM

Tea/Coffee

Session V : 11:00 AM – 1:00 PM

Chair: **S. M. Yusuf**

11:00 AM - 11:30 AM: **Talal Mallah** "Preparation and magnetic behavior of highly anisotropic Ni(II) complexes with increased nuclearity"

11:30 AM - 12:00 Noon: **Maheswaran Shanmugam** "Can we control the single-ion magnetic anisotropy of Tetrahedral Co(II) ion by ligand design?"

12:00 Noon - 12:30 PM: **Corine Mathoniere** "Switching properties in cyanido-bridged Fe/Co molecules followed by bulk and local techniques"

12:30 PM - 1:00 PM: **Kevin Bernot** "Recent Advances in Lanthanide Molecular Materials: From Isolated Dimers to Metal-Organic Frameworks"

1:00 PM - 2:00 PM

Lunch

Session VI : 2:00 PM – 3:30 PM

Chair: **Rodolphe Clerac**

2:00 PM - 2:30 PM: **Sanjit Konar** "Single ion magnetic anisotropy in Co(II) complexes"

2:30 PM - 3:00 PM: **Abhishake Mondal** "Photo and Thermo-Induced Electron-Transfer in mixed-valence Fe^{III}/Fe^{II} Prussian Blue molecular model complexes"

3:00 PM - 3:30 PM: **R. Rajamani** "Modeling Magnetic Anisotropy in Molecular Magnets"

3:30 PM – 4:00 PM

Tea/Coffee

Session VII : 4:00 PM – 5:30 PM

Chair: **Abhishake Mondal**

4:00 PM - 4:30 PM: **Rodrigue Lescouezec** "Photomagnetic A{Fe₄Co₄} cages as building blocks for the design of responsive material"

4:30 PM - 5:00 PM: **Jean Pascal Sutter** "Polynuclear Nanomagnets based on Robust Pentagonal Bipyramid Ising-type Building Units"

5:00 PM - 5:30 PM: **S. Ramasesha** "Modeling Molecular Magnets with Large Exchange and On-Site Anisotropies"

