



POM-based molecular electronics, POM-based molecular magnetism and spintronics
Incorporation of POM chemistry in devices: achievements and challenges

Friday October 30th

15:00 - 19:00

Short talks and discussion

- Lee CRONIN Non-conventional computation with analogue to digital Molecular Metal Oxides
- Boris TSUKERBLAT Quantum cellular automata: a logic gate in one POM molecule
- Anna PROUST et Dominique VUILLAUME
Immobilisation of POMs on surfaces: toward electronic devices
- John ERRINGTON Surface Chemistry for POM Devices: Silicon as a Substrate
- Nikos GLEZOS Electronic transport and charging properties of POM monolayers-Hybrid memory devices
- Helena NOGUEIRA AFM and Raman imaging of polyoxometalate based nanocomposites
- Paul KOGERLER Resistive Switching
- Pedro DE OLIVEIRA POMs on electrode surfaces: could the experimental evidence of PCET be predicted by theoretical modeling
- Cristina FREIRE POM@nanocarbon composites as electrocatalysts for oxidation and reduction reactions

19:30

Dinner

Saturday October 31st

9:00- 11:30

Short talks and discussion

- Eugenio CORONADO
- Nicolas SUAUD Theoretical calculations for POMs: understanding and prediction of the magnetic properties
- Ulrich KORTZ Chromium(III)-Containing Polyoxotungstates with Exceptionally Large Magnetic Anisotropy
- John ERRINGTON Redox Engineering for Switchable Magnetic POMs
- José BALDOVI Modelling the properties of lanthanide SIMs based on POMs
- Laurent RUHLMANN
- Antonis DOUVAS Incorporation of POMs in polymeric films for device microfabrication and use of POM layers in organic optoelectronic devices
- Josep-Maria POBLET Computational Modelling of Photoactivated Polyoxometalates