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DATES

Submit Abstract by: **25 May 2015**
Abstract Acceptance by: **22 June 2015**

Venue

Warsaw University of Technology
(Warsaw, Poland)

EMRS web:
[http: www.emrs-strasbourg.com](http://www.emrs-strasbourg.com)

1st Announcement



EMRS 2015 Fall Meeting
Warsaw, Sept 15-18

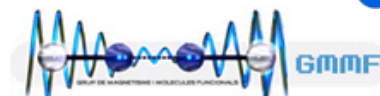
Symposium on
Molecular Materials
for Quantum Computing
(MMQC)



Universidad
Zaragoza



UNIVERSITAT DE BARCELONA



PRESENTATION

Quantum computing will lead the future revolution of information technology.

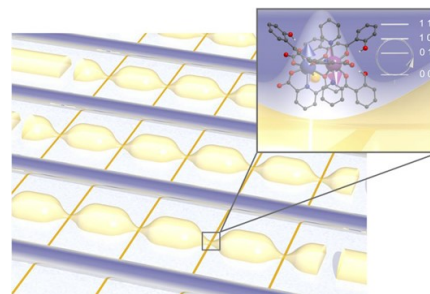
Current efforts in materials science focus on the physical realization of qubits and qugates. This symposium will highlight the contribution to this from the molecular materials' perspective, mainly on the manipulation of the electronic spin as the basic unit of quantum information.

CONFIRMED SPEAKERS

Alejandro Gaita Ariño (U. Valencia)
Andrea Morello (U. New South Wales)
Joris van Slageren (U. Stuttgart)
Paolo Santini (U. Parma)
Takeji Takui (Osaka City U.)
Stephen Hill (NHMFL, Tallahassee)
Mario Ruben (KIT, Karlsruhe)
Filippo Troiani (CNR Modena)

TOPICS

- Chemical design of qubits using lanthanide and transition metal complexes
- Organic radicals for quantum computing
- Design and control of quantum coherence through chemistry
- Physical methods to unveil quantum entanglement within molecules
- Realization of multi-qubit quantum gates
- Pulsed and HF-EPR for the detection and characterization of quantum coherence
- Simulation of magnetic anisotropy and quantum coherence
- Quantum simulation of quantum systems
- Hybrid quantum computation architectures with molecules and atoms
- Surface nanostructuring of molecular qubits and qugates.



INSCRIPTIONS

Early registration:

Regular participants	450 EUR
Students	280 EUR

Late registration:

Regular participants	500 EUR
Students	330 EUR