1st Announcement

EMRS 2015 Fall Meeting
Warsaw, Sept 15-18

Symposium on Molecular Materials for Quantum Computing (MMQC)

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

ORGANIZERS

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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.

**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 nanostructuration of molecular qubits and qugates.

**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)

**INSCRIPTIONS**

**Early registration:**
- Regular participants: 450 EUR
- Students: 280 EUR

**Late registration:**
- Regular participants: 500 EUR
- Students: 330 EUR