

**ATMOL LAUNCHES THE TRAINING COURSE:
FROM ATOMIC SCALE DESIGN TO SURFACE FABRICATION**

CEMES-CNRS (Toulouse, France): December 02, 2014.

Madrid, SPAIN, 17th November 2014

AtMol, ICT-FET Integrated Project, is pleased to announce the training course: **From atomic scale design to surface fabrication**, to be held the **2nd December 2014** in Toulouse, France.

Objective: training for circuit designers and UHV surface producers to detail the progresses made in the last 5 years in the conception and fabrication of molecular chips (chips whose interconnected atomic scale circuits will be able to provide large computing power).

After a general introduction of the Atom Tech perspectives, students will be divided in two groups:

- Specific course on how an atomic scale surface well adapted to planar atomic scale circuit can be constructed and tested up to a detail presentation of the new LT-UHV 4 Probes instrument (Pico-Lab CEMES-CNRS micro-clean room)
- Intensive course on the different ways of designing a molecular/atomic scale circuit, with the possibility to play with a quantum circuit simulator to design their own atomic scale logic gates

Following the AtMol Les Houches Winter school on Quantum Resources & Molecule-machines (January 2013), the courses will be set up for PhD students, Post-Doctoral fellows and young researchers. They will be specifically organized for synthetic chemists, surface physicists and circuit designers interested by the possible next generation of calculating circuits which one day will be constructed (or assembled) on such diverse surfaces as Si(100)H, AlN(0001), graphene or MoS₂.

Attendance is free but registration is required at the training course webpage:

www.atmol.eu/training-Toulouse

AtMol

This European project open the atomic scale era of molecular computing integrating state of the art atomic scale technologies, new quantum architectures with multi-scale interconnection and packaging techniques for a single molecule to compute and be packaged into a molecular chip. The AtMol Integrated Project and its related "dissemination & training" activities are going to provide both academic researchers and industry engineers access to the tools needed to be at the forefront of the atomic scale technology revolution, a revolution beyond nanotechnology.

AtMol Website: www.atmol.eu

Phantoms Foundation

This Non-Profit organisation was established on November 26, 2002 (Madrid, Spain) in order to provide high level Management profile to scientific projects. This association plays an important role in the 7th Framework Programme as a platform for European funded projects (nanoICT, AtMol, nanoCODE, etc.) to spread excellence amongst a wider audience and to help in forming new networks. Phantoms Foundation is now a key actor in structuring and fostering European Excellence in "Nanoscience and Nanotechnology", having a world leading position in organising conferences, training and dissemination activities in this field.

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