Administrative and General Information

The primary source of information about MNE2012 is the conference website: www.mne12.org

Questions about further information, sponsorship and commercial exhibition may be addressed to: contact@mne12.org

Special Events

The welcome reception will be held on Sunday evening 16 September at the conference venue, Centre des Congrès Pierre Baudis. An interesting social program will be arranged and published on the MNE2012 website.

The conference dinner will be held in the remarkable space museum of Toulouse, la Cité de l’espace, on 18 September. Visit of the outstanding Airbus industry will be arranged on 21 September.

Registration and Fees

Information on registration and abstract submission will be available on the conference website starting in 2012. Special early booking rates will be available until 6 August 2012.

Important Dates and Deadlines

Conference: 16-20 September 2012
Abstract Deadline: 8 June 2012
Notification to authors: 13 July 2012
Early registration rate: until 6 August 2012

Welcome to Toulouse

Welcome to Southern France, in Toulouse, the «pink city».

In our region, nature can be beautiful and majestic, tormented or peaceful.

The monuments, churches, abbeys, castles and palaces built by our ancestors to protect themselves or to pay tribute to their faith are in tune with natural beauty.

Toulouse, a rich and beautiful city, is famous for its aeronautical and space achievements, its university founded in 1229, its laboratories and research centres. Today, more than 97,000 students attend its three universities, institutes and schools. This city owes its name «Ville Rose» to the colour of the bricks covering the walls, which glitter under the blazing sun.

It combines a strong living spirit with a brilliant past and can unveil the gist of its beauties while jealously hiding less familiar treasures.

Toulouse is constantly building the future but is also a real heaven for the strolling passer-by who just wants to muse in a cloister or on a terrace outside a cafe or a restaurant till very late at night. Toulouse also lives within the sound of rhythm and music, with a subtle mix of Italian and Spanish influences.

The Conference Venue

The Centre des Congrès Pierre Baudis is a modern place for trade, privileged by its immediate proximity to the Toulouse Centre in a green environment, located 15 minutes from the airport and 10 minutes on foot from Capitole Square. The flexibility of spaces allows for the welcoming of, in excellent conditions, congresses, conventions, symposiums, seminars, study days, gala dinners, product launches, festive events, trade shows, reviews and competitions. It can hold from 50 to 1,200 people.

Accommodation

The congress office will reserve a sufficient number of hotel rooms in various hotel categories and price ranges nearby the congress venue. All listed hotels are located in the city centre at walking distance from the conference venue.
Micro and Nano-Engineering (MNE) is an international conference on micro and nanofabrication, manufacturing using lithography and all technological processes of miniaturization. The conference brings together engineers and scientists from all over the world to discuss recent progress and future trends in the fabrication and applications of micro and nano structures, devices and systems. The conference proceedings are published in Microelectronic Engineering Journal - Elsevier.

MNE2012 in Toulouse will be the 38th conference in a series that started in Cambridge in 1975 and was more recently held in Copenhagen (2007), Athens (2008), Ghent (2009), Genoa (2010), Berlin (2011). On average MNE conference attracts 600-700 participants.

Conference Structure
The conference starts with a welcome reception on Sunday 16 September, in the evening. The technical program starts on Monday 17 September and ends at noon on Thursday 20 September.

The conference combines plenary and parallel sessions and features invited presentations by a number of internationally recognized scientists, contributed oral and poster presentations and a commercial exhibition. Abstracts will be accepted and assigned to poster or oral presentation based on the recommendations of the International Program Committee. Note that MNE attributes the same weight to poster and oral presentations. The conference center can accommodate special meetings or workshops on Thursday 20 September and Friday 21 September.

Scope of the Conference
Micro and Nanolithography
Nanoimprint and Soft-Lithography: systems, alignment, stamp fabrication, processes and imprinting methods, results and applications, dedicated resists...
Maskless Lithography: photon, charged particles, scanning probe techniques, sources, optics, systems, alignment, modelling, throughput, 3D lithography...
Photon Lithography: DUV, immersion, EUV, sources, optics, systems, mask technology, alignment, optical proximity correction, lithography modelling, novel techniques ...
Electron and Ion beam Lithography: sources, optics, systems, alignment, proximity corrections, e-beam mask writer, ion and electron beam surface interactions...

Micro and Nanofabrication / Micro and Nanoengineering

Nano fabrication with top-down and bottom-up approaches: novel fabrication methods, self-assembly and directed self-assembly, combination of top-down and bottom-up processes, surface nano engineering, resolution limits, nanomanipulation, integration of nano-objects, tip-induced fabrication, nano scale modelling, molecular technologies...

Pattern transfer and plasma etching: nanoscale etching, lithography/etching interactions, etching of new materials, novel etching chemistry, etching damage, deep etching, lateral etching, lift-off, plating, sputtering, beam etch/diposition, modelling....

Nanometrology: inspection, testing, metrology and in-situ process measurements, devices and circuits, reliability, nanoscale metrology...

Nanoelectronic/photon devices: nanoelectronics, nano optics/ nanophotonics, plasmonics, nanowires and nanotubes based devices, SiOxEMS, high density data storage devices, nano magnetics, molecular devices, characterization...

Micro and nano manufacturing: transfer of nanofabrication and nanoscience from lab to industry, manufacturable production of nanostructures, devices and systems...

Micro and Nanosystems and their Fabrication, MEMS, NEMS, Micro Optics, Photovoltaic
Surface and bulk micromachining, 3D structures, stereolithography, rapid prototyping, moulding, new materials, sensors and actuators, SiOxEMS, NEMS, RF-MEMS/NEMS, electromechanical passive devices, RF mechanical resonators....

Micro and Nanofabrication for Life Sciences
Micro and Nano devices and systems for biology, chemistry and medicine: micro and nanofabrication of fluidic systems and characterization, micro-biodesvices, biodetection devices, cell sorting devices, cell/micro-nanostuctures interactions, neuronal devices, biochips and Lab on a chip, µTAS, BioMEMS, micro-nano devices for chemical analysis, gaz sensors...

Bio-Inspired technologies: biomanomachines, Bioassembly of nanomaterials, hybrid devices...