

Editorial

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**MONA Symposium and Roadmapping Workshop held in Grenoble**

On 28-29 November 2006, the MONA Symposium and Roadmapping-Workshop on Nanophotonics - Processes, Materials & Devices took place at MINATEC in Grenoble.



The goal of the **MONA-Symposium** on November 28 was to exchange scientific and technological vision in the field of nanophotonics of various FP6-funded activities such as Phoremest, OLLA, ePIXnet, etc. and to offer a platform for network building. More than 100 enthusiastic participants, coming from 13 European countries, attended the sessions with presentations by senior researchers in nanophotonics.

The goal of the **MONA-Roadmapping Workshop** on November 29 was to discuss and improve a draft version of the Nanophotonics-Roadmap prepared by the MONA consortium. The workshop was organized in parallel working groups covering following topics:

- . Semiconductor quantum dots and nanoparticles
- . Photonic crystals and high-index-contrast devices
- . Plasmonic nanostructures and metamaterials
- . Carbon nanotubes and organic nanomaterials
- . Integration of nanophotonic materials/structures with electronic ICs/Silicon Photonics
- . Epitaxy and deposition processes
- . Nanostructuring processes (litho, etching, nano-imprint, etc)

The last hour of the workshop was dedicated to a presentation of the outcomes of the working groups followed by a lively debate. Every participant was fully aware that the future of nanophotonics in Europe is at stake in the process, since the roadmap is intended to directly feed into the next stages of the Strategic Research Agenda of **Photonics21**.

A detailed report including program, presentations, pictures on this event will be available soon in the report section of the MONA website: <http://www.ist-mona.org>



*The Quantum Dot Working Group*

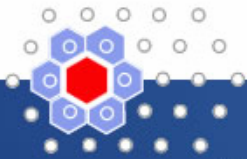


*Enthusiastic participants debating during a break*

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## Conferences on the Nanophotonics Roadmap in Korea

Tom Pearsall, General Secretary of EPIC, participated in the IEEE Nanotechnology Materials and Devices Conference in Gyeongju, on October 22-24, and in the 3rd Annual VLSI Photonics Symposium at the INHA University in Incheon on October 26-27, where he made plenary presentations on the MONA Project: the Nanophotonics Roadmap.

This trip was an opportunity for the MONA project to identify and meet with science and engineering organizations such as KOSEF (the Korean Science & Engineering Foundation, ETRI (the Electronic and Telecommunications Research Institute) KIST (the Korean Institute of Science & Technology) and the MoST (Ministry of Science & Technology). T. Pearsall met with Dr. Cha-Dong KIM, Director General of the Cooperation Bureau Europe at the MoST to discuss European cooperation.

A CD-ROM about this trip report as well as Korean and European R&D in the nanophotonics area has been released in November, and you can download it from the MONA website. <http://www.ist-mona.org/international/default.asp>



Tom Pearsall and Yoon-Ha JEONG,  
Chairman of the IEEE NMDC conference in  
Gyeongju



T. Pearsall and L. Fulbert at the MONA booth

## MONA at Photonics West in San Jose 20-25 January, 2007



MONA will organize a workshop at **Photonics West** on the 25th of January, 2007 called **Workshop on Building a Nanophotonics Roadmap** to be held at the Fairmont Hotel, Hillsborough Room, with roadmap contributions from Europe, Japan, Korea, Taiwan and the USA.

In this workshop the attendees are invited to participate in the construction of the nanophotonics roadmap. There will first be presentations of nanophotonics roadmap progress from around the world. From these efforts some key areas for debate have been identified. The participants will be able to contribute by joining a work group to develop a response to one of these issues. The results of all working groups will be presented in the concluding part of the workshop.

Among the invited speakers, Yasuhiko ARAKAWA, OITDA and the University of Tokyo (Japan), Lionel KIMERLING, Massachusetts Institute of Technology, USA, Wei-Xin NI, National Nano Device Laboratory (Taiwan), Jung Il LEE, Korea Institute of Science and Technology - KIST (South Korea) and Thomas P. PEARSALL, European Photonics Industry Consortium (France) presenting "MONA, the Nanophotonics Roadmap Project in Europe".

For more information and a detailed program of this event, please visit the MONA website: <http://www.ist-mona.org> and the SPIE website: <http://spie.org/conferences/programs/07/pw/>

The European project **MONA (Merging Optics & Nanotechnologies)** had a booth at **OPTO 2006** in Paris from October 16-19, 2006.

The main goal was to inform a large audience about the progress of the MONA project and the MONA Symposium and Workshop in Grenoble on November 28-29, 2006. With 200 exhibitors, more than 4000 visitors and 600 delegates, OPTO 2006 was a great success.

Within the conference program of the European Optical Society (EOS) which has been held alongside the OPTO exhibition in Paris, Krassimir Krastev, OpticsValley, as a partner of the MONA project, made a presentation about MONA, Merging Optics and Nanotechnologies in FP-7: the Nanophotonics Technology Roadmap.