



2nd ICTON - Mediterranean Winter 2008



December 11-13th, 2008, Marrakech, Morocco



ICTON-MW'08 is the winter event to the International Conference on Transparent Optical Networks (ICTON) intended to provide an international forum of discussion and promotion of research advances in transparent and all-optical technologies in broadband telecommunication networks, systems, and components in Mediterranean region.



ICTON-MW'08 is receiving technical co-sponsorship by the IEEE Lasers and Electro-Optics Society.



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Call for Papers

Workshop on Advanced Materials and Photonics Applications (AMPA)

The field of **Advanced Materials and Photonics Applications** covers large and diverse areas of knowledge ranging from nanostructures, bioengineering, functionalized advanced materials to photonics. To reach high development in such area we have to understand quite well the Fundamental of Photonics, Nanophotonics and Biophotonics including laser-matter interaction and nonlinear optical processes, theoretical models, measurements techniques and applications. Functionalized compounds organics and minerals could be a solution to very sophisticated problems since the world where we live in becomes more and more complex and increasingly dependent upon advanced technologies. In these perspectives advanced and functionalised nanocompounds could provide better solutions to unsolved problems up to now and could lead to applications in the field of optical technologies in telecommunication networks, systems, and components in Mediterranean region.

Advanced Smart Materials, Photonics Nanophotonics and Bionanophotonics are exciting new frontiers that have captured the interest of people worldwide. They deal with the interaction of light with matter on a nanometer size scale. By adding a new dimension to nanoscale science and technology, nanophotonics provides challenges for fundamental research and creates opportunities for new technologies. The interest in nanoscience is a realization of a famous statement by R.P. Feynman that 'There is plenty of room at the bottom'. Bionanophotonics integrates four major technologies: lasers, photonics, nanotechnology, and biotechnology. The fusion of these technologies truly offers a new dimension for both, diagnostics and therapy. Bionanophotonics creates many opportunities for chemists, physicists, engineers, physicians, health professionals and biomedical researchers. The need for new materials and technologies to provide early detection of diseases, to produce and apply more targeted therapies, and to restore impaired biological functions is constantly increasing. Key topics include:

- Electrical and optical properties: charge transport in organic/inorganics materials
- Nanophotonics/Photonic crystals
- Biophysics/Biophotonics applications
- Functionalized compounds for NLO applications: $\chi(2)$ and $\chi(3)$ materials and devices
- Electro-optic materials and devices
- Laser-matter interaction and nonlinear optical processes
- Novel photonic nanostructures for optoelectronics applications
- Applications of nanostructures and nanomaterials
- Meta-materials
- Micro-Nano photonic structures
- Advanced materials and technologies

Authors are cordially invited to submit the contributions (in electronic form, MS Word accompanied by a PDF version) for Regular and Poster Sessions to icton-mw@iaer.eu by **September 30th, 2008**. More information can be found on the ICTON-MW'08 website: www.iaer.eu/icton-mw08.

The authors will be notified on the acceptance by **October 31th, 2008**. Post-deadline papers with recent results are requested by **November 15th, 2008**. Accepted papers will be published in the conference proceeding.

IEEE Copyright Transfer Form is requested for ICTON-MW submissions exceeding one page.

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