

# International Conference on Transparent Optical Networks – Mediterranean Winter 2007 Sousse, Tunisia



## ICTON-MW'07



December 6-8<sup>th</sup>, 2007, Sousse, Tunisia



INSTYTUT ŁĄCZNOŚCI  
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ICTON-MW'07 is a satellite 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'07 is receiving technical co-sponsorship by the IEEE Lasers and Electro-Optics Society.



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## Call for Papers

### Workshop on Advanced Materials for Nanophotonics Applications (AMNA)

The field of **Advanced Materials for Nanophotonics Applications** cover large and divers 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 could be a solution to our very sophisticated problems since the world where we live become more and more complex and increasingly dependent upon advanced technologies. In these perspectives functionalised nanocompounds for photonics could provide better solutions to unsolved problems.

**Nanophotonics and Bionanophotonics** are an exciting new frontier that has captured the imaginations 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 (Prof. Paras N. Prasad, *Nanophotonics*, 2004). The interest in nanoscience is a realization of a famous statement by R.P. Feynman that '*There is plenty of room at the bottom*' (R.P. Feynman, 1961). 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, dentists, 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. Keys topics of Interest include, but are not limited to:

- . Biophotonics
- . Nanophotonics
- . Photonic nanostructures
- . Applications of nanostructures and nanomaterials
- . Laser-matter interaction and nonlinear optical processes

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](mailto:icton-mw@iaer.eu) by **September 30th, 2007**. More information can be found on the ICTON-MW'07 website: [www.iaer.eu/icton-mw07](http://www.iaer.eu/icton-mw07).

The authors will be notified on the acceptance by **October 30th, 2007**. Post-deadline papers with recent results are requested by **November 15th, 2007**. 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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University 7th November  
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