

Campus Colloquia series

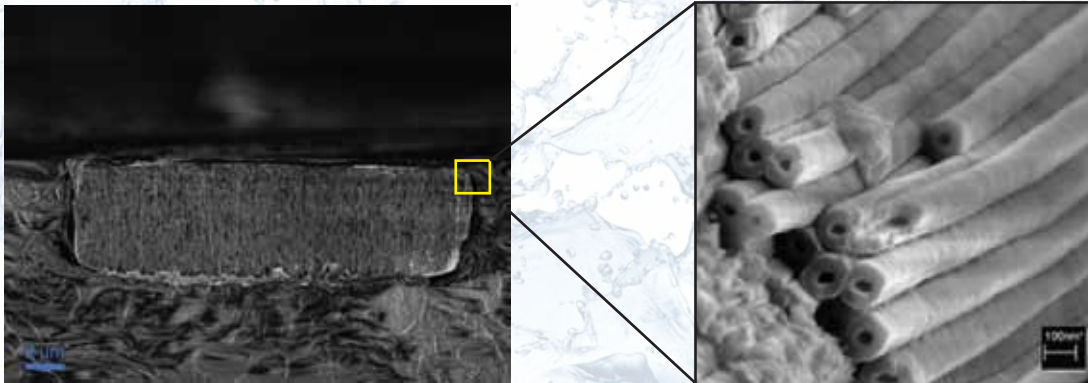
Mercoledì 22 aprile 2015

Area della Ricerca CNR-INAf Via Gobetti 101

Aula 105 - Ore 11

Nanotechnology for water purification: the European project WATER

Vittorio Privitera - *CNR-IMM Catania*



The focus of the presentation is on the application of nanotechnology to water treatment. Worldwide 1.2 billion people suffer inadequate access to clean water. Nanotechnology is expected to improve the water purification with lower cost and energy. These were the major motivations for undertaking the initiative of the EU project **WATER** www.water.imm.cnr.it, coordinated by CNR-IMM, that aims to develop novel applications attracting industrial and service assets.

The actions of this project include widening of the research infrastructures; exchange of know-how and personnel with partners to tackle the issues of the proposed nanotech-based innovation and improve the opportunities of collaborative research; reinforcement of research staff; refinement of management capacities; innovative dissemination actions both for specialists and broader audience; development of a strategic plan for the IP. The multidisciplinary partnership includes scientists from UK, Spain, France, Germany and Norway, local authorities, representatives of ministerial institutions, water treatment SME and filters technology world leader company, to guarantee the effectiveness and sustainability of the project.

The nanotech filtration up-scalable to industrial production might determine an impact on the economy and society through technology innovation. The general outcome will consist in boosting the research potential of the research group in this emerging research domain and in the affirmation of a long term scientific vision and strategy in a common scientific and social context.

water

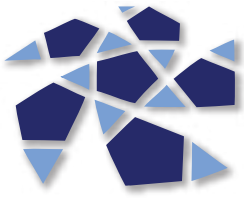


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Nanotechnology for water purification: the European project WATER

Vittorio Privitera - *CNR-IMM Catania*

Vittorio Privitera is Senior Scientist of the National Research Council of Italy (Istituto per la Microelettronica e i Microsistemi, Unità di Catania-Università, CNR) and Head of the Group "Nanostructures for electronics, energy and environment". His current research program is focused on the application of nanostructures, mainly based on metal oxides and carbon materials, to water purification.

He was a post-doc Marie Curie fellow in 1992-93 at IMEC, Belgium. He was a member of the project management committee of several European Projects (ENDEASD, FRENDECH, IMPULSE) in the field of nanomaterials and nanoelectronics. He was the Coordinator of the European project "Fundamentals and applications of LASer processing for Highly innovative MOS technology" (FLASH) and of several national projects. He currently coordinates the European Coordination and Support Action "Winning Applications of nanoTEchnology for Resolutive hydropurification" (WATER) and obtained a grant of 4 M€ by the European Commission for its execution.

He is author of 200 publications in international scientific journals, delivered several invited talks at international conferences, won 5 awards at national and international conferences and holds one patent.

He chaired three international conferences (E-MRS Symposium 2001, IEEE-RTP 2007, IEEE-NMDC 2014) and is a member of the International Scientific Committee of several conferences. He is referee of the Journal of Applied Physics, Applied Physics Letters, Journal of the Electrochemical Society, Applied Physics A, IEEE Transactions on Electron Devices.

He was supervisor of several theses in the field of materials science at the University of Catania and member of the Doctoral Examination Committee at the University of Oslo (Norway), Delft University of Technology (The Netherlands) and University of Trento (Italy).

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