
Editorial

Adnane Abdelghani and Melika Ardhaoui

Nanotechnology Laboratory, Carthage University,
National Institute of Applied Science and Technology,
Bp676, Centre Urbain Nord, 1080 Charguia Cedex, Tunisia
Fax: +216 71 704 329
Email: aabdelghan@yahoo.fr
Email: melikaard@yahoo.fr

Sherine O. Obare

Department of Chemistry, Western Michigan University,
Kalamazoo, Michigan, USA
Email: sherine.obare@wmich.edu

Axel Lorke

Faculty of Physics and CENIDE,
University of Duisburg-Essen, Lotharstraße 1,
ME245, 47058 Duisburg, Germany
Email: axel.lorke@uni-due.de

Biographical notes: Adnane Abdelghani is currently Full Professor at the National Institute of Applied Science and Technology (Tunisia). His main areas of interest are the design of gas sensors and biosensors. He supervised in Tunisia more than 10 PhD theses in the field of microsensors and published more than 80 papers in international journals and two book chapters. He organised three international conferences in the field of Nanotechnology in Tunisia (2009, 2012, 2014) with the Alexander Von Humboldt Foundation (Germany).

Melika Ardhaoui received her PhD from Institute National Polytechnique de Lorraine–France in the area of Bioprocess and Biotechnology and was a Postdoctoral Fellow at the Material Processing Research Centre, Dublin City University, Ireland. In 2006, she joined the surface engineering research group at the University College Dublin, Ireland. Since 2010, she's a Marie Curie International Research Fellow (Biofuel cells Project) based in the Chimie ParisTech, France as visiting researcher. She is a co-founder of SETCOR events start-up.

Sherine O. Obare is a Full Professor in the Department of Chemistry at Western Michigan University in the USA. Her research interests lie in the area of designing nanoscale materials with unique physical properties and to exploit these properties toward environmental remediation, improved healthcare, and alternative energy. Her work has been featured in over 100 publications in the form of journal articles, review articles, book chapters and conference presentations. She is the recipient of several national awards including the National Science Foundation CAREER Award and the American Competitive and Innovation Fellowship.

Axel Lorke received his PhD in Experimental Physics in 1991 from the Ludwig-Maximilians-Universität (LMU) Munich. He worked as a Postdoctoral fellow at the University of Tokyo, the University of California, Santa Barbara, and the LMU Munich, where he also received his 'Habilitation' (academic teaching credentials). Since the year 2000 he has been a Full Professor (C4) for Experimental Physics at the University of Duisburg-Essen. His work focuses on the electronic and optical properties nanostructures and low-dimensional semiconductors. He is co-founder of the 'Center for NanoIntegration Duisburg-Essen' (CENIDE), and Board Member of the Nanoenergy Technology Center. He is author and co-author of 6 patents and more than 150 refereed publications with a total of about 4500 citations

NANOTECH Tunisia 2014 and the MEET Tunisia 2014 Joint International conferences were held on April 24–26, 2014 in Hammamet, Tunisia. The conferences brought together a multi-disciplinary group of internationally recognised researchers and technology developers. The aim of the MEET conference is to foster interactions between scientists from academia and industry who work on fundamental and applied aspects, and to contribute to the ultimate goal of accelerating the implementation of new materials that will provide clean and affordable energy for the future. The Nanotech conference covered all frontier topics in Nanoscience & Nanotechnology including Graphene, Energy, Photonics, Microsystems, Environment and Bio/Medicine.

This event gathered a global community of distinguished scientists working on nanotechnology and materials science for energy and environmental applications, including researchers, industrial scientists, policymakers and investors. Internationally renowned speakers offered the attendees exceptional opportunities. The latest trends and discoveries in Nanoscience and Nanotechnology as well as in the area of Materials for energy and the environment from some of the world's leading players in the field were discussed.

Furthermore, the conference was an excellent event for students to meet leading researchers to discuss important scientific and technological aspects. The conference provided an unprecedented opportunity to discover innovation and new business opportunities. It was among the most important events in the region and was open to the participation of private companies. It offered companies a unique venue to promote equipment and technology.

The topics presented at the event were as follows:

- Materials for solar cells, Photovoltaic, wind energy, Nuclear, BioEnergy, etc
- Photo Catalytic Materials and Solid-state Lighting Materials
- Sensors and Microsystems
- Nanoparticle Synthesis & Applications
- Modelling & Simulation at the Nanoscale
- Nanofluidics
- Nanostructured/ nanoporous Materials & Devices
- Nanostructured Coatings, Surfaces & Membranes

- Carbon Nano Structures & Devices
- Graphene
- Polymer Nanotechnology
- Soft Nanotechnology & Colloids
- Microsensors and Microsystems
- Nanomaterials for Clean & Sustainable Technology
- Nanotechnology for Solar Energy Collection and Conversion.

The main objectives of the international event were:

- to encourage students to participate and engage in discussions with pioneering scientists in the field of nanoscale science and technology
- to strengthen the interdisciplinary exchange between physicists, engineers, chemists and (micro-) biologists for modern research aspects
- to form a collaborative network within the developing countries
- to show the impact of nanotechnology for industrial requests (start-up and spin-off companies).

In summary, 16 plenary lectures, 40 talks and 80 posters were presented on a high scientific level. Including the organising members, the NANOTECH-MEET Tunisia involved more than 120 participants from different countries (Tunisia, Germany, USA, UK, Sweden, France, Italy, Switzerland, Spain, Algeria, South Korea, King Arabia Saudi Arabia, Qatar, etc..), which signifies the broad and international scientific interest. The booklet of proceedings has been distributed and has been well accepted by all participants.

The conference was also an opportunity to thank Nobel Laureate Prof. Claude Cohen Tannoudji (who was awarded the 1997 Nobel Prize in Physics) for his effort and research activities.



Photo Group



The Nobel laureate with Pr. A. Abdelghani (in the right), Dr. Imen Hafaid (in the left) and Dr. Hamdi Baccar