

## Enrico Traversa

On August 28, the academic council of the International Association of Advanced Materials (IAAM) honored Professor Enrico Traversa with the IAAM Smart Materials Medal of 2014 for outstanding contributions in the field of Materials Science and Technology, during the opening ceremony of the International Conference on Smart Materials and Surfaces.

Professor Traversa is the Principle Investigator at the Materials for Energy Conversion and Storage (MECS) Lab within the Physical Science and Engineering Division. His research interests include nanostructured materials for sustainable development including energy, environment, and healthcare. The majority of his recent work has been on solid oxide fuel cells (SOFCs), including chemically stable proton conducting oxide electrolytes, miniaturized SOFCs, hydrocarbon-fueled SOFCs, and reversible SOFCs for energy storage. He is also interested in the biological interactions of materials, investigating redox active oxide nanoparticles with pharmacological potential, novel strategies for drug delivery, and novel scaffolds for cardiac tissue engineering elucidating the role of mechanical and biological cues. ●



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Five years of science  
and research Page 6

KAUST  
CELEBRATING  
FIVE YEARS



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## SIZE MAKES A DRAMATIC DIFFERENCE IN TUNING ELECTRON INJECTION IN QUANTUM DOT SOLAR CELLS

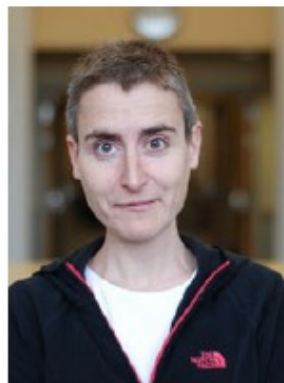


Prof. Omar Mohammed and his research team work in the laser lab at KAUST's Solar Center to align the femtosecond transient absorption setup to monitor electron injection between quantum dots (QDs) and phenyl-C<sub>60</sub>-butyric acid methyl ester (PCBM) in real time.



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## DR. BLANCA AYUSO DE DIOS NAMED VISITING SCHOLAR



Dr. Blanca Ayuso de Dios, KAUST Visiting Researcher of Stochastic Numerics Research Group, has been named the 2013 Romberg Visiting Scholar by the Heidelberg Graduate School of Mathematical and Computational Methods for the Sciences. The official notification was made in February, 2014.

After receiving her Ph.D. in Mathematical Sciences from Universidad Autonoma de Madrid (Spain) in October 2003, de Dios took a postdoctoral position at the Istituto di Matematica Applicata e Tecnologie Informatiche in Pavia, Italy. In 2007, she returned to Madrid as an Assistant Professor. Several years later, her work led her to the Centre de Recerca Matematica in Barcelona, as a Ramon y Cajal Researcher. On January 2014, she joined KAUST and the Stochastic Numerics Research Group as Visiting Researcher.

Her research is mainly concerned with the development and analysis of numerical methods (mainly of finite element type) for partial differential equations. She is also active in the analysis and development of fast solvers for the algebraic systems that arise from numerical discretization, in particular domain decomposition and multilevel methods. Her more recent interests include uncertainty quantification, and the applications of her work are most directly related to continuum mechanics and plasma physics.

The Romberg Visiting Scholarship is for up to six months, while spanning an eligible period of three years. During visits, de Dios will contribute to the training and research program of HGS MathComp. In doing so, she will work closely with Prof. Guido Kanschat and other members of the IWR, the Interdisciplinary Center for Scientific Computing of Heidelberg University. □

بيل غيتس  
من مشاكل

في محمود  
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CBRC INAUGURATION | Continued on p3