Materials development in emerging energy technologies Workshop

Monday and Tuesday *afternoons:* Dec. 4th and 5th, Farah hotel, Tangier, Morocco

http://med-space.org/irsec17/workshop1

Chaired by

Prof. Ahmed Ennaoui, Institut de Recherche en Energie Solaire et Energies Nouvelles, Morocco
Prof. Abdelilah Benyoussef, Moroccan Foundation for Advanced Science, Innovation and Research, Morocco
Prof. Tarik Chafik, FST Tangier, Morocco
Prof. Mustapha Jouiad, Masdar Institute of Science and Technology, UAE

KN 14:30-15:00 Monday Plenary Room		**Introduction to workshop, by Prof. Ahmed Ennaoui and Prof. Abdelilah Benyoussef** Materials for photovoltaic technologies: State of the art, challenges: The coming decade of Opportunities
KN 15:00-15:30 Monday Plenary Room		Development of Advanced Semiconductor Materials and Devices for Next Generation Photovoltaics: Opportunities and Challenges **Prof. Mohamed Henini** School of Physics and Astronomy, University of Nottingham, U.K
KN 15:30-16:00 Monday Plenary Room		Materials for solar energy conversion and storage: Computational predictions of physical properties using Density Functional Theory (DFT) **Prof. Abdelilah Benyoussef** Moroccan Foundation for Advanced Science, Innovation and Research, Morocco
KN 16:00-16:30 Monday Plenary Room		Laser Sculpting and Processing of Silicon for Photovoltaics **Dr. Alpan Bek**, Center for Solar Energy Research and Applications (GÜNAM) and Middle East Technical University, Ankara, Turkey.
KN 14:00-14:30 Tuesday Plenary Room		New routes to highest conversion efficiencies for solar energy conversion and direct solar water splitting: III-V semiconductor structures on silicon **Prof. Thomas Hannappel** Ilmenau University of Technology, Institut für Physik, Ilmenau, Germany.
KN 14:30-15:00 Tuesday Plenary Room		Toward material engineering for energy conversion strategies using solar spectrum **Prof. Mustapha Jouiad**, Masdar Institute of Science and Technology, UAE

KN 15:00-15:30 Tuesday Plenary Room		High Performance Computing in material science **Prof. Othmane Bouhali,** Research professor and director of research computing at Texas A&M University, Qatar
KN 15:30-16:00 Tuesday Plenary Room		Future applications for the world's oldest photovoltaic material **Dr. Teodor Todorov,** IBM T. J. Watson Research Center, USA.
KN 17:30-18:00 Tuesday Plenary Room		Low carbon emissions technology using local clay catalysts **Prof. Tarik Chafik,** FST Tangier, Morocco
KN 18:00-18:30 Tuesday Plenary Room		Nanomaterials contribution to the development of future clean energy sources **Prof. Abdelhafed Taleb** Institut de Recherche de Chimie Paris & Université Pierre et Marie Curie, Paris, France.

Many other specialized researchers will take part of this event.

Free for IRSEC'17 registered participants.

To participate, please apply online:

http://med-space.org/irsec17/register-workshop

For others, please apply and register: http://www.med-space.org/registration-form-IRSEC.html