



University of Crete
Department of Chemistry
Laboratory of Bioinorganic Chemistry

A DAY ON SOLAR ENERGY UTILIZATION

Friday October 26, 2012

University of Crete, Department of Chemistry

University Campus, Voutes, Seminar Room: 307

Laboratory of Bioinorganic Chemistry
Chemistry Department

Vassilika Vouton
PO Box 2208 Heraklion-Crete
71003 Greece

☐ T +30 2810545045

☎ F +30 2810545161

coutsole@chemistry.uoc.gr
www.chemistry.uoc.gr/coutsolelos/
www.biosolenuti.gr

AGENDA

10:00 – 11:30 **BIOINSPIRED SOLAR ENERGY UTILIZATION**

(BIOSOLENTI Regional Potential PROJECT)

A.G. Coutsolelos (*management, disseminations, exchanges, equipment*)

K. Ladomenou (*Trimeric and Ru coordinated porphyrins for DSSCs*)

G. Charalambidis (*Self assembling porphyrins*)

D. Daphnomili (*Pyridine based porphyrins for DSSCs*)

T. Lazarides (*Photophysics, laccase, H₂ production*)

E. Ferentinos (*New "push-pull" porphyrins for DSSCs*)

G. Zervaki (*Functionalized carbon-porphyrin hybrids*)

C. Stangel (*Non-covalent Porphyrin-C₆₀ assemblies*)

11:30 – 12:00 **Coffee break**

Foundation for Research and Technology (IESL/FORTH)

Nikos Pelekanos

Department of Materials Science and Technology, University of Crete

"III-V nanowires for next generation photovoltaics"

Emmanouil Kymakis

"Enhanced efficiency and stability in organic photovoltaic cells using surfactant free gold nanoparticles as additives"

Eleftherios Iliopoulos

Physics Department, University of Crete

"High efficiency III-Nitride semiconductor Photovoltaic devices"

Emmanouil Stratakis

Institute of Electronic Structure and Laser (IESL), FORTH

"Solution-processed graphene as electron acceptor in organic photovoltaics"

14:30 – 16:00 **Mini symposium on Solar Energy Utilization**

Prof. E. Stephanou

Rector, University of Crete

Konstantinos Lambrinos

Vice Regional Governor, Region of Crete

Juan Fontecilla

Institut de Biologie Structurale, University of Grenoble, France

"Structural Strategies for Oxygen resistance and tolerance in NiFe-hydrogenases"

Tomas Torres

Universidad Autónoma de Madrid, Spain

"Phthalocyanines for molecular photovoltaics"

Nikos Zografakis

Director, Regional Energy Agency of Crete (REAC)

"Policy for solar energy utilization"

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16:00 – 16:15 Coffee break

16:15 – 17:45

Dirk Guldi

Friedrich-Alexander-Universität Erlangen, Germany

"Porphyrins in solar energy conversion - From light harvesting to solar fuel production"

Daniel Gryko

Institute of Organic Chemistry, Polish Academy of Sciences, Poland

"Photophysical properties of corroles and their chances in solar energy utilization"

Panagiotis Argitis

Institute of Microelectronics (IMEL), NCSR Demokritos, Greece

"Electron/hole extraction layers in organic photovoltaic devices"

Artemis Saitakis

Director, Science Technology Park of Crete

"Industry - Academia cooperation for Renewable energy utilization"