

RPV

Technology Development & Market Trends

Sponsors

National Technical University of Athens
Solar Cells Hellas S. A.
HelioSphera S. A.
ExelGroup S. A.
Silcio S. A.
Optronics Technologies S. A.

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Prof. S. Simopoulos (NTUA-Rector), Prof. D. Yfantis, Prof. M. Founti

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HELAPCO:

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AHK:

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Organization Contributors

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4-5 October 2010



Athens, NTUA, Rectorate, Auditorium

Monday 4, October

Energy Generation

9:00-9:30, Opening

Chairman: D. Papadimitriou, NTUA

- Prof. S. Simopoulos, NTUA-Rector
- Prof. M. Santamouris, CRES-President
- Ch. Kalyviotis, HELAPCO-President
- M. Knapp, AHK-Director

9:30-10:10, 1st Session: “Industrial Activities”

Chairman: Ch. Panagopoulos, NTUA

- [The current state of the PV-Industry in Greece](#) (G. Vokas) HELAPCO
- [PV investment challenge in Greece](#) (M. Knapp) AHK

10:30-12:30, 2nd Session: “PV and related Production Activities in Greece”

Chairman: S. Tselepis, CRES

- [PV module assembly](#) (N. Chatzinikolaou) ExelGroup S.A.
- [Thin Film Micromorph PV Module Production in Greece](#) (A. Zachariou) HelioSphera S. A.
- [Production-Line of Si wafer based Solar Cells](#) (A. Papachristou) Silcio S.A.
- [Production Line of Si wafer based Solar Cells](#) (S. Pitarokilis) Solar Cells Hellas S.A.
- [PV module assembly](#) (E. Kastanakis) Stibetherm S.A.
- [Optoelectronic Systems for Characterization of PV Cells](#) (G. Papastergiou) Optronics S.A.

13:30-15:30, 3rd Session: “Developing Materials-Science & Processing Technologies I”

Chairman: D. Manolakos, NTUA

CIS/CIGS Technology

- [ILGAR Buffer-Layers for Efficient and Stable Chalcopyrite Solar Cells – from Lab to Industry](#) (Ch.-H. Fischer*, N. A. Allsop, S. Gledhill, M. Kröger, T. Kphler, R. Saez, M.-Ch. Lux-Steiner) HZB
- [3D Simulations of a CuInS₂ Thin Film Heterojunction Solar Cell with a Point Contact/Defect Passivation Structure at the Heterointerface](#) (N. A. Allsop, R. Nörnberg, M.-Ch. Lux-Steiner, Th. Schedel-Niedrig*) HZB
- [ZnO Nanostructures for the Applications of Solar Energy](#) (J. Chen*, L. Ai, Y. Tang, M.-Ch. Lux-Steiner) HZB
- [CIS, CGS, CIGS Photovoltaics: buffer- and window-layers grown by EBE, PLD, CBD and ECD](#) (D. Papadimitriou*, C. Panagopoulos, D. Manolakos, D. Yfantis, M. Kompitsas, S. Tselepis) NTUA, NHRF, CRES

16:30-18:30, 4th Session: “Developing Materials-Science & Processing Technologies II”

Chairman: N. Markatos, NTUA

III-V Semiconductor Device Technology

- [Arsenide Semiconductor based Devices](#) (U. Pohl, P. Vogt*, D. Bimberg) TU-Berlin
- [Growth and Characterization of In\(Ga\)N Compounds for Device Applications](#) (P. Vogt*, M. Kneissl) TU-Berlin
- [Optical Characterization of nano-Scale Systems](#) (W. Richter) Uni-Roma

Organic Semiconductor Device Technology

- [Organic Semiconductor Solar Cells](#) (K. Fostiropoulos) HZB

Tuesday 5, October

Energy Management & Storage

9:00-11:30, 1st Session: “System Technology”

Chairman: N. Hatziaargyriou, NTUA

- [PV-Technology Implementation Activities](#) (S. Tselepis) CRES
- [PV power electronics](#) (A. Kyritsis) CRES
- [PV system yield evaluation](#) (J. Nikolettatos) CRES
- [micro-Grids](#) (N. Hatziaargyriou) NTUA
- [Latest Technology Developments in the Design of Large Grid-connected PV Stations](#) (Ch. Protogeropoulos) Phoenix Solar

12:00-13:30, 2nd Session: “RES Production Balance with Storage”

Chairman: M. Founti, NTUA

- [Energy Storage Systems supporting Integration of RES in Island Power Systems](#) (A. Tsikalakis) NTUA
- [Potentials of Fuel Cells as micro-CHP Systems for Domestic Applications](#) (G. Vourliotakis, D. Giannopoulos and M. Founti*) NTUA
- [Model-based Optimal Control of a Hybrid Power Generation System consisting of Photovoltaic Arrays and Fuel Cells](#) (P.L. Zervas, H. Sarimveis *, J.A. Palyvos, N.C.G. Markatos) NTUA

Domestic Applications

13:30-15:00, 3rd Session: “Building Integration Technologies”

Chairman: D. Yfantis, NTUA

- [Solar Energy and Phase Change Materials \(PCM\) in Buildings](#) (K. A. Antonopoulos, C. Tzivanidis*, E. D. Kravvaritis) NTUA
- [Energy enhancing structural elements for Hybrid PV-Thermal systems for buildings](#) (I. Tzouvadakis, V. Kefalas*) NTUA

15:00-15:10, Closure

Chairman: D. Papadimitriou, NTUA

- Prof. S. Simopoulos, NTUA-Rector