



ISES Annual Meeting

Wednesday, October 5, 2011

Tel Aviv University

Meeting organization: ► TAU Renewable Energy Center
► Porter School of Environmental Studies ► TAU Faculty of Engineering

Plenary sessions will be held at the Rosenblatt Auditorium, Software Engineering building

Parallel Sessions: (A) at Rosenblatt Auditorium, (B) at room 104, Software Engineering building


08:30-09:00	Registration and gathering / הרשמה והתכנסות
09:00-09:20	Greetings / דברי פתיחה Michael Epstein, ISES Chairman Prof. Ehud Heyman, Dean of Engineering, Tel Aviv University
	Morning Plenary session // Chairman: Yossi Rosenwaks
09:20-10:00	Invited Presentation // Dr. Klaus Lips , <i>Helmholz Zentrum Berlin</i> Photochemical upconversion for amorphous silicon solar cells
10:00-10:30	Award ceremony // Chairman: Avi Kribus
	ISES Student Projects competition in renewable energy Guest speaker: Arnold Goldman , Founder & Chairman, <i>BrightSource Industries</i> Joshua Levinberg Chemi Sugarman , CTO, <i>Shikun & Binui Renewable Energy</i>
10:30-11:00	Coffee Break / הפסקת קפה

11:00-12:30	Session 1A: PV // Chairman: Gady Golan
	Organic Photovoltaics and Concentrated Sunlight? E. Katz, A. Manor, T. Tromholt, F. Krebs, <i>BGU and Tech. Uni. Denmark</i>
	Correlation of Macroscopic Photovoltaic Behavior and Microscopic Electrical Characteristics for Cu(In1-XGaX)Se Thin Films: Influence of Composition W. Li, S. Cohen, K. Gartsman, R.L. Caballero, D. Cahen, <i>WIS and HZB, Germany</i>
	Realistic performance of Photon Enhanced Thermionic Emission for solar energy conversion G. Segev, Y. Rosenwaks and, A. Kribus, <i>TAU</i>

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	Nano rectifying antennas for solar energy harvesting D. Bar-Lev, Y. Yifat, J. Scheuer, <i>TAU</i>
	Wideband Dual Vivaldi nano-antenna with high radiation efficiency over the infrared frequency band Z. Iluz, A. Boag, <i>TAU</i>
	Organic PV cells, electricity collected from plant photosynthesis – feasibility and demonstration A. Elazari, <i>Millennium Electric</i>
11:00-12:30	Session 1B: Solar Heat & Chemistry // Chairman: Gershon Grossman <i>This session is dedicated to the late Prof. Abraham Cogan, on the second anniversary of his passing</i> 
	Development of a spherical solar collector with a stationary reflector/tracking absorber for industrial process heat S. Cohen, G. Grossman, <i>Technion</i>
	Simulation of an integrated solar steam generator R. Ben-Zvi, M. Epstein, A. Segal, <i>WIS</i>
	Advantages of energy storage solar system with PCM plates S. Reis, <i>TAU</i>
	Solar thermal splitting of methane in a solar volumetric reactor for combined production of hydrogen and carbon nano-materials J. Yeheskel, S. Barak, M. Epstein, <i>WIS</i>
	Energy and exergy analysis of super-critical water gasification (SCWG) cogeneration A. Ganani, A Kribus, A Ullmann, M Epstein, <i>TAU and WIS</i>
	Metal oxides reduction in vacuum: setup development and experimental results of alumina carboreduction and zinc oxide thermal splitting I. Vishnevetsky, M. Epstein, <i>WIS</i>
12:30-13:45	Lunch Break / הפסקת צהריים
13:45-14:00	Society General Meeting / האסיפה הכללית של האגודה Chairman: Michael Epstein
	Afternoon Plenary session // Chairman: Michael Epstein
14:00-14:40	Invited Presentation // Ms. Doerte Laing, DLR, Germany Thermal energy storage for concentrated solar power: state of the art and current developments

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14:40- 15:20	Invited Presentation // Prof. Ami Ben Amotz, Seambiotic Ltd. New frontiers in algal biotechnology: from nutritional products to bio-fuel
15:20-15:50	Coffee Break / הפסקת קפה

15:50-17:20	Session 2A: PV, Systems // Chairman: Shlomo Wald
	Basic limitations to third generation PV performance L. Barnea, D. Cahen, A. Kahn, P. Nayak, <i>WIS and Princeton U.</i>
	Parameter Estimation Of Multi-Junction Solar Cells A. Ben Or, J. Appelbaum, <i>TAU</i>
	HIT in the ISG- Israeli Smart Grid Y. Beck, G. Golan, <i>Holon Institute of Technology</i>
	Balance of system costs and the Eternegy dual-axis ETracker E. Dror, <i>Eternegy</i>
	Building on Solar Energy Solutions E. Kassel, <i>SES Consortium</i>
	Novel multilayer solar absorber prepared by sputtering A. Axelevitch, B. Gorenstein, G. Golan, <i>Holon Institute of Technology</i>
15:50-17:05	Session 2B: Buildings, Wind, Power plants // Chairman: Eitan Parnass
	Fresh air as the cheapest-to-harvest renewable resource J. Fromm, <i>Nidan Systems Ltd.</i>
	To heat or not to heat - this is the (heretic) question E. Schaap, <i>Inmolysis</i>
	Solar energy plants impacts and land use in israel: background and policy suggestions E. Bar Levav, A. Halaila, Y. Ilan, <i>Haifa University</i>
	High-performance wind turbine blades using distributed closed-loop flow control system V. Troshin, A. Seifert, <i>TAU</i>
	Gas turbine tended solar power-plant scheme for maximizing clean energy output at minimized cost A. Roy, <i>Energy Projects Development</i>

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