



ISES Annual Meeting

Wednesday, September 9, 2009

Weizmann Institute of Science

Ebner Auditorium

- 08:00-09:00 Registration / הרשמה
- 09:00-09:15 Opening / דברי פתיחה Michael Epstein, *ISES Chairman*
- 09:15-09:55 Presentation of prizes to winners of Student Projects and short presentation by winners
חלוקת פרסים לסטודנטים לעבודות זוכות והצגה קצרה של עבודות על ידי הזוכים
Arie Neshet, *Porter School, Tel Aviv University*
- 09:55-10:00 Introduction to Eni award for research and development in the fields of energy and environment
Filippo Tessari, *Eni Foundation, Milano, Italy*
- 10:00-10:15 A cost-benefit analysis of renewable energy utilization in Israel 2009-2030
Amit Mor, Shimon Seroussi *EcoEnergy*
- 10:15-10:40 **Coffee Break / הפסקת קפה**
- 10:45-12:45 **Session I Scientific/PV and Electricity**
- Invited Lecture** - Solar Energy Towards Grid-Parity
Arie Tsaban *Bar Ilan University*
- Inorganic/Organic Hybrid Photovoltaics: Si / Organic Molecule / Metal Inversion Layer Solar Cells
Rotem Har-Lavan , Omer Yaffe, David Cahen *Weizmann Institute of Science*
- Can up & down conversion and multi-exciton generation improve photovoltaics?
Hagay Shpaisman, Olivia Niitsoo, Igor Lubomirsky, David Cahen
Weizmann Institute of Science
- Preparation and investigation of Silicon PIN Solar Cells
Alex Axelevich, A Wisnebeek Z. Gavrilman, B. Gorenstein, G. Golan
Holon Institute of Technology
- Sb₂S₃-Sensitized Nanoporous TiO₂ Solar Cells
Yafit Itzhaik, O.Niitsoo, M.G. Page, D. Tsivion, G. Hodes
Weizmann Institute of Science
- Progress in commercialization of dye solar cells at 3GSolar
Jonathan Goldstein *3GSolar Ltd*
- Hybrid operation of OST3 gas turbine with concentrated solar radiation and bio-fuel
Uri Fisher , Yosef Sinai *Ormat*
- Spatial Solar Flux Measurement on a CSP Tower Receiver
Zvi Auman *BrightSource Industries*

12:45-14:00 **Lunch Break / הפסקת צהריים**

14:00-14:15 **Society General Meeting האסיפה הכללית של האגודה**

14:15-16:00 **Session II Systems/Policy**

המשבר הכלכלי בראי הקיימות
Avraham Arbib, משרד התשתיות הלאומיות,

Matching Large Solar Photovoltaic Power Plants to the Israeli Electricity Grid
David Faiman, A Solomon, G Meron *Ben Gurion University*

הערכה לפוטנציאל ייצור השמל פוטו-וולטאי מבוזר בישראל
Ran Vardimon *Weizmann Institute of Science*

Supplying Israel's Electric Energy Demand: a Life Cycle Analysis approach
Tamir Klein, Yaniv Edery, Hagai Shpaismann *Weizmann Institute of Science*

The First Phase of Israel's Feed-In Tariff: An Economic Evaluation and Reflections on the First Year of Operation
Yaakov Garb, Chanoch Friedman *Ben Gurion University*

An integral conceptual approach to sustainable energy and water supply
Dan Zaslavsky *Technion*

16:00-16:25 **Coffee Break/ הפסקת קפה**

16:30-18:30 **Session III Chemistry / General**

Invited Lecture - סל האנרגיה הראשוני הדרוש לישראל -
Shlomo Wald המדען הראשי, משרד התשתיות הלאומיות

The main aspects of reactants selection for solar hydrogen production from water via thermal chemical redox cycles
Irina Vishnevetski, Alexander Berman, Michael Epstein
Weizmann Institute of Science

CO₂ reforming of methane in a directly irradiated solar reactor
Rachamim Rubin, Jacob Karni *Weizmann Institute of Science*

Bio-fuels from wet organic waste by solar super-critical water gasification
Alon Ganani, Abraham Kribus, Amos Ullmann *Tel Aviv University*,
Michael Epstein *Weizmann Institute of Science*

High Temperature Electrolysis of CO₂
Yury Alioshin *Weizmann Institute of Science*

PCM-based Storage System for Solar Energy Plants

Hanan Avraham, Eli Asis, Dan Sagie *Rotem Industries*

Solar-powered systems for cooling, dehumidification and air-conditioning

Khaled Gommed, Gershon Grossman *Technion*

Analysis of UVB radiation at Dead Sea and its application in treatment of Psoriasis

Avraham Kudish *Ben Gurion University*

Meeting Sponsors:

The Maurice and Gabriela Goldschleger Foundation, Weizmann Institute of Science

AERI Alternative Sustainable Energy Research Initiative Fund, Weizmann Institute of Science

The Student Project competition was organized by the Porter School of Environmental Studies, Tel Aviv University and prizes donated by:

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