Program

Monday, October 27, 2008

10:30 – 11:00   Arrival at the Ben-Gurion National Solar Energy Center, Midreshet Ben-Gurion, Registration

10:30-11:00   Opening Greetings
(Chair: Prof. David Faiman, BGU Blaustein Institutes, Sede Boqer)
11:00-12:00  Session 1: Invited Keynote Lecture and Discussion
(Chair: Prof.)

If the leaf can do it, we can do it

Prof. James Barber
Imperial College, London

12:00-13:30  Lunch – Dining Room, High School for Environmental Studies

13:30-15:00  Session 2: Photovoltaics I
(Chair: Prof.)

1. Photovoltaic devices based on photosynthesis reaction center protein
   Chanoch Carmeli1, Ludmila Frolov1, Yossi Rosenwaks2, Michael Chichik3, Shachar
   Richter3 and Itai Carmeli3
   1Departments of Biochemistry, 2Physical Electronics and 3Chemistry, Tel Aviv
   University, Tel Aviv, Israel

2. Understanding photosynthesis: Electron transport in single biomolecular wires
   Iris Visoly-Fisher1, Kavyon Daie1, Yuichi Terazaono2, Christian Herrero2, Fernando
   Fungo3, Luis Otero3, Edgardo Durantini3, Juana J. Silber3, Leonides Serreno3, Devens
   Gust3, Thomas A. Moore2, Ana L. Moore2 and Stuart M. Lindsay1
   1 Dept. of Chemistry, Ben Gurion University, Beersheva, Israel; 2 Arizona State Univ,
   AZ, USA; 3 Universidad Nacional de Rio Cuarto, Argentina

3. Modeling the effect of the structure of polymer photocells on their absorption
   spectrum
   Rafi Shikler1, 2 and Richard H. Friend2
   1Dept. of Electrical & Computer Engineering, Ben Gurion University, Beersheva
   Israel and 2Cavendish Laboratory, Cambridge CB3 0HE, UK

4. Reversible degradation of plastic solar cells: underlying mechanism
   Eugene Katz
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990
   Midreshet Ben Gurion, Israel

5. Reversible degradation of plastic solar cells: underlying mechanism
   Celine Bonioux and Eugene Katz
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990
   Midreshet Ben Gurion, Israel

15:00-15:30  Coffee break

15:30-17:00  Session 3: Photovoltaics II
(Chair: Prof.)

1. Can up and down conversion and multi-exciton generation improve photovoltaics?
Hagay Shpaisman, Olivia Niitsoo, Igor Lubomirsky and David Cahen
Dept. of Materials and Interfaces, Weizmann Inst. of Science, 76100 Rehovot, Israel
2. Study of different light bias sources for Si solar cell spectral response measurements
Ygal Eisenberg, Lev Kreinin, Ninel Bordin and Naftali Eisenberg
Jerusalem College of Technology, POB 16031, 91160 Jerusalem, Israel
3. A metal-organic insulator-semiconductor solar cell, based on molecular monolayer self-assembly on n-Si
Rotem Har-Lavan, Izhar Ron, Florent Thieblemont and David Cahen
Dept. of Materials and Interfaces, Weizmann Inst. of Science, 76100 Rehovot, Israel
4. Wet-chemical synthesized Extremely Thin Absorber(ETA) solar cells with CdS and Cu$_{2-x}$S absorbers
Olivia Niitso, Miles G. Page, Yafit Itzhaik, David Cahen and Gary Hodes
Dept. of Materials and Interfaces, Weizmann Inst. of Science, 76100 Rehovot, Israel
5. Recent developments in dye sensitized solar cells at 3GSolar
Jonathan Goldstein, Ilya Yakupov and Barry Breen
3G Solar, AVX Building, 3 Hamarpeh St., Har Hotzvim Technology Park, 91450 Jerusalem, Israel

17:00-18:00  Guided tour of the Ben-Gurion National Solar Energy Center at Sede Boqer
18:30-19:30  Dinner - Dining Room, High School for Environmental Studies

Tuesday, October 28, 2008

9:00-10:30  Session 4: System Issues
(Chair: Prof.)
1. Field-level effects in rooftop arrays of small parabolic dishes
Yosef Meller, Gil Shelef and Avraham Kribus
Tel Aviv University, Israel
3. Negative impact of dust on the efficiency of solar energy production
Sergey Biryukov and Leonid Yarmolinsky
Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel
2. PV module stability experience at Sede Boqer
David Faiman
Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel
4. Negative impact of clouds on the efficiency of solar energy production
Sergey Biryukov
Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel
5. Photovoltaic concentrators with unfolded aplanatic optics
Jeffrey M. Gordon$^1$, Daniel Feuermann$^1$ and Pete Young$^2$
$^1$ Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990
$^2$ Midreshet Ben Gurion, Israel
10:30-11:00  Coffee Break

11:00-12:00  Session 5: Invited Keynote Lecture and Discussion
(Chair:)
*Nuclear Power – the French Experience*
**Dr. George Serviere**
Électricité de France

12:00-13:30  Lunch – Dining room, High school for environmental studies

13:30-15:00  Session 6: Solar-Thermal
(Chair: Prof.)
1. *Solel – Spanish Solar Thermal Project*
   **Kenny Kleinerman**
   Solel Solar Systems Ltd., Beit Shemesh, Israel
2. *Evaluating a long-term thermal storage system for solar energy*
   **Roman Adinberg,**
   Weizmann Institute of Science, Rehovot. 76100
3. *Thermal measurements of a CSP tower system: use of a thermal imager in the tower control system*
   **Ophir Chernin**
   Luz II/Bright Source
4. *A building-integrated spherical collector concentrating PV thermal system*
   **Mordechai Arenson**
   Ormat, Yavne and Tel Aviv University, Israel
5. *The Zenith Solar Z-10 CSP system*
   **Roy Segev**
   Zenith Solar Ltd, Nes Ziona Israel

15:00-15:30  Coffee break

15:30-16:30  Session 7: Invited Keynote Lecture and Discussion
(Chair: Prof.)
*State of the art solar plant technologies and their cost effectiveness*
**Prof. Aaron Roy**
Ben-Gurion University of the Negev

16:30-18:00  Session 8: Long-term PV Issues
(Chair: Prof.)
1. *A dynamical thermal model of a PV panel*
   **Anat Razon** and David Faiman
2. *First efficiency measurements of 3J cells using PETAL*
   David Faiman, Sergey Biryukov, Leonid Yarmolinsky, Shlomo Kabalo, Vladimir Melnichak and Dov Bukovza
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel

3. *Aspects of storage battery use*
   Moshe Averbukh
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel

4. *How large can Israeli PV systems be?*
   A. A. Solomon
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel

5. *Economic analysis of the Israeli feed-in tariff*
   Hanoch Friedman and Yaakov Garb
   Jacob Blaustein Institutes for Desert Research, Ben Gurion University, 84990 Midreshet Ben Gurion, Israel

18:30-19:30 Dinner

Evening Program

Wednesday, October 29, 2008

9:00-10:30 ISES – Israel Session
1. *The Israeli Government’s Vision of Research and Development in Renewable Energy*
   Dr. Shlomo Wald
   Chief Scientist, Israel Ministry of National Infrastructures

2. *The Better Place Electric Vehicle Project*
   Dr. Dan Weinstock
   Better Place

3. *The electric car: solution or setback for the environment?*
   Sigal Shusterman and Prof. Avi Kribus
   Tel Aviv University

4. *Winflex wind turbine technology*
   Dr. Vladimir Kliatzkin
   CTO, Unibatt Ltd.

   **Closing Remarks** – Prof. David Faiman

10:30-11:00 Coffee Break

11:00-12:00 ISES General Meeting – Members only
12:30-14:00  Lunch – Dining room, High school for environmental studies

14:00 – 18:00  First French-Israeli Solar Energy Workshop – Day One
(open to everyone – but requires separate registration)

Festive dinner

20:00-22:30  Concert – Giacomo Meyerbeer, Performed by Rotem Sivan (Soprano) and (Yonatan Zak)