Ben-Gurion University of the Negev
אוניברסיטת בן-גוריון בנגב

ENEA
Italian National Agency for New Technologies, Energy and Sustainable Economic Development

Joint Italian-Israeli Workshop on Organic PV

October, 20.- 2011
ENEA Portici Conference Room

09:30 **Welcome Addresses and workshop Opening**
Dr. Ezio Terzini .- ENEA Portici Techical Unit Director-UTTP
Dr. Francesco Roca.- ENEA Portici UTTP.- European and International Project Coordinator

9:40-10:40 **ENEA Activity on Organic PV**

OPV Activities in the framework of Organic Electronics in ENEA-UTTP Laboratories
Eng. Carla Minarini.-Dr. Pasquale Morvillo UTTP-NANO Nanomaterials and Device Technology Lab

Nanomaterials for DSSC electrodes
Dr. Rossella Giorgi.- ENEA Casaccia Technical Unit Material Technologies

Synthesis and characterization of hybrid CdS/MEH-PPV nanocomposites for photovoltaic applications
Dr. Leander Tapfer- Technical Unit ENEA Brindisi Material Technologies (UTTMATB)

Coffee break

11:00-12:00 **BGU Activity on Organic PV**

Short presentation on Organic PV Activity @ BGU University
Studies of photo-induced charge transfer at organic-inorganic interfaces using the Kelvin probe method
Dr. Iris Visoly Fisher.- Dept of Chemistry, 2Dept of Materials Eng., and Ilse Katz Institute for Nanoscale Science and Technology, Ben Gurion University of the Negev, Be'er Sheva, Israel

Study of degradation process in polyfluorenes polymers, correlating macroscopic and microscopic measurements
Dr. Rafi Shikler Department of Electrical and Computer Engineering Ben-Gurion University of the Negev Israel

Study of organic photovotaics by concentrated sunlight: towards enhancement of stability and optimization of charge collection in large area solar cell
Dr. Eugene A. Katz Dept. of Solar Energy and Environmental Physics, Jacob Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boker Campus, Israel

12:00-13:15 **Overview on Italian Scientific Initiatives on OPV**

The CNST initiative in Milan on innovation in third generation solar cell:

Prof. Guglielmo Lanzani.- Director Center for Nano Science and Technology @Polimi, Istituto Italiano di Tecnologia, Milan Italy

Hybrid/Organic PV: new perspectives and applications

Prof. Giuseppe Gigli.- NNL - CNR NanoScience Institute, Lecce University of Salento, Innovation Engineering Dep. Italian Institute of Technology (IIT), Energy Platform

Organic and Hybrid Thin Film Photovoltaic Technologies@ UNI MI Bicocca: Materials and Devices

Prof. Alessandro Abbotto, Milano-Bicocca Solar Energy Research Center MIB-SOLAR, University of Milano-Bicocca, Italy

Activity on OPV and DSSC @ CHOSE- Center for Hybrid and Organic Solar Energy

Prof. Aldo Di Carlo .- Head of the Optoelectronics group.- Co-director of CHOSE Dept. Electronics Engineering, Univ. of Rome "Tor Vergata", Italy

13:15-14:15 **LUNCH**

14:15-14:45 **Overview about Italian Scientific Initiatives on OPV (ctd)**

Activities on Organic PV @ Centre NANO-MATES of the University of Salerno

Prof. Paolo Ciambelli; Prof. Heinrich-Christoph Neitzert, Research Centre for NanoMaterials and Nanotechnology (NANO_MATES), University of Salerno

Synthesis and application to OPV of highly regioregular polyalcoxyphenyl-thiophenes catalyzed by copper complexes

Prof. Antonio Roviello; Dr.Antonio Carella .- Chemistry Department University of Naples, Italy

14:45-15:45 **DISCUSSION PANNEL**

- Common routes and possible solutions on materials, architectures, stabilization
- How to promote consensus on device cell architecture?
- Improved material characterization/prediction methods and procedures
- How to organize and promote round robin on test devices and materials
- Inventory and presentations on special infrastructures: synthesis, realization, scale-up,characterization, testing , etc.
- Theoretical methods and software
- Future bilateral/European/international (funded) projects

16:00 **Conclusion of the Meeting and Visit to ENEA Portici Laboratories**