

**UNION OF ELECTRONICS, ELECTRICAL ENGINEERING, AND
TELECOMMUNICATION IN BULGARIA (CEEC),
INSTITUTE OF ELECTRONICS AT BULGARIAN ACADEMY OF SCIENCES
(IE BAS)
FEDERATION OF SCIENTIFIQ AND TECHNICAL UNIONS IN BULGARIA
(FNTS),
UNION OF POWER ENGINEERS IN BULGARIA (CE)**

**International symposium
"Advanced solutions in applied energy
technologies"**

P R O G R A M

19-21 September 2011

Sofia, National House of Science and Technology, 108, Rakovski str.

Organizing committee

Prof. Dr.Sc.of Phys. **Georgi Mladenov** –IE BAS, CEEC - *Chairman*

Prof. Dr.Sc.of Eng. **Ivan Yatchev**- FNTS, CEEC, T.U. Sofia

Prof. Dr. **Tsancho Tsanev**- Union of power engineers in Bulgaria

Prof. Dr.Sc.of Phys.**Katia Vutova**- IE BAS, CEEC

Assoc. Prof. Dr. **Ivan Shishkov**-CEEK

Assoc. Prof. Dr. **Elena Koleva**-IE BAS, Ch.M.T.U. Sofia - *Secretary*

Assoc. Prof. Dr. **Ivan Vasilev** – CEEC – *Secretary*

Topics

- Advanced solutions for solar energy applications,
- Hydrogen generation by thermo-chemical concentrated solar systems,
- Renewable, low carbon sources of energy,
- Nanotechnology and nano-structured materials in modern energetic systems,
- Energy storages (Lithium-ion batteries, solid hydrogen storages etc.)
- Fuel cells

Symposium schedule

Day	Hour	Event
Tuesday 20-09-2011	10,00 -10,30	Opening Session
	10,30 -12,20	Oral Session I
	13,30 – 16,00	Oral Session II
	16,00 -16,30	Coffee Break
	16,30- 17,30	Poster Session
	17,30-18,30	Discussion on renewable energy sources
	18,40	Symposium Cocktail
Wednesday 21-09-2011	9,00-11,00	Oral Session III
	11,00-11,30	Coffee Break
	11,30-12,30	Discussion on transport sector
	12,30-12,40	Closing Session

Symposium program

Tuesday 20 September, 10,00-12,20	
Opening session	
Oral session I- Chairman Assoc. Prof. Dr. Ivan Shishkov	
<i>G.Mladenov,</i> STATE OF THE ART OF CONCENTRATED SOLAR POWER GENERATION TECHNOLOGIES	Bulgaria
<i>G. M. Mladenov, E.G.Koleva,</i> PHOTOVOLTAIC ENERGY CONVERSION TECHNOLOGIES STATE-OF-THE-ARTS	Bulgaria

Lunch time

Tuesday 20 September, 13,30-16,00	
Oral session II- Chairman: prof. Dr.Sc.of Phys. Katia Vutova	
<i>N. Schiller, Ch. Metzner, G. Mattausch</i> THIN FILM TECHNOLOGIES FOR PHOTOVOLTAIC AND ENERGY STORAGE APPLICATIONS-A SURVEY OF CURRENT ACTIVITIES AT FRAUNHOFER FEP	Germany
<i>E.G.Koleva, G. M. Mladenov</i> DESCRIPTION OF TECHNOLOGY OF A PRODUCTION LINE FOR CGIS PHOTOVOLTAIC PANELS	Bulgaria
<i>M. Berov</i> SEASONAL VARIATION OF THE OUTDOOR PERFORMANCE OF A α -SIMODULE	Bulgaria
<i>V. Zhuikov, J. Yamnenko, T. Tereschenko, E. Pichkalyov</i> REALIZATION OF OPTIMAL WORKING REGIME IN PHOTOVOLTAIC SYSTEM	Ukraine

Coffee Break 16,00-16,30 h.

Tuesday 20 September, 16,30-17,30	
Poster session I	
<i>L. N. Stronski, V. M. Spivak,</i> ABOUT RATIONAL ENERGETICS OF THE HUMAN COMMUNITY	Ukraine
<i>D.Todorov, G.Mladenov</i> SOME TRENDS AND PROBLEMS OF INVERTERS FOR PHOTOVOLTAIC SYSTEMS	Bulgaria
<i>V.Donchev, G.Mladenov, K.Vutova</i> USAGE OF COMPUTER SIMULATIONS AND MATHEMATICAL MODELING IN SOLAR THERMAL HYDROGEN REACTORS	Bulgaria
<i>V.Tabakov, G.Mladenov</i> HYDROGEN APPLICATION IN POWER ENGINEERING AND TRANSPORT	Bulgaria

Tuesday 20 September, 17,30-18,30	
DISCUSSION ON RENEVABLE ENERGY SOURCES	

Symposium Cocktail - 18,40 -19,40 h.

Wednesday 21 September, 9,00-11,00	
Oral session III- Chairman: Assoc.Prof.Dr Elena Koleva	
<i>I.Levkov</i> ELECTRIC VEHICLES IN BULGARIA_BULGARIAN PARTICIPATION_ELECTRIC VEHICLES INDUSTRIAL CLUSTER	Bulgaria
<i>B.Pavurdjiev</i>	Bulgaria
<i>P.Yordanov</i> PORTABLE SOLAR INSTALLATION	Bulgaria
<i>Coffee Break 11,00-11,30 h.</i>	
Wednesday 21 September, 11,30-12,30	
DISCUSSION ON TRANSPORT SECTOR FUTURE	
Closing session- 12,30-12,40	