

SCIENTIFIC PROGRAMME

Sunday, 27 October 2013

10:00 – 16:00	Registration
16:00 – 16:30	Opening ceremony – <i>Ravel Hall</i> Chair: Livia Sarkadi and Norbert Kroó
16:30 – 17:00	Pál Kovács – Minister of State for Energy Affairs – Main Patron
17:00 – 17:30	Robert-Jan Smits – European Commission, Director General DG Research and Innovation
17:30 – 18:00	Romana Jordan – European Parliament, ITRE
18:00 – 18:15	Zoltán Cséfalvay – Minister of State for National Economy – INNOVATION AND ENERGY – HUNGARIAN PLACE ON THE EUROPEAN SCENE
18:15 – 20:15	Get-together party

Monday, 28 October 2013

	Chair: Zsolt Fülöp – <i>Ravel Hall</i>
8:50 – 9:00	Greetings from the president of the Hungarian Academy of Sciences: József Pálinkás
9:00 – 9:45	Plenary Lecture Electricity Supply System: PL1 Stefan Weitemeyer: ENERGY SYSTEM MODELLING – INTERACTIONS AND SYNERGIES IN A HIGHLY RENEWABLE PAN-EUROPEAN POWER SYSTEM
	Parallel session – Bolero Hall
	T5 – ERC (European Research Council) Topic chair: E. Renney and A. Badacsonyi Session chair: E. Renney and A. Badacsonyi
9:45 – 10:15	Topical plenary lecture: T5-PL1 András Badacsonyi SUPPORTING CREATIVE MINDS – THE EUROPEAN RESEARCH COUNCIL
10:15 – 10:45	Topical plenary lecture: T5-PL2 Elisabeth Renney: ERC IN PRACTICE – TIPS, RUMOURS AND THE TRUTH
10:45 – 11:15	Coffee break

- 11:15 – 11:35 **T5-OL1 Hele Savin:**
RIDDLE OF LIGHT INDUCED DEGRADATION IN SILICON SOLAR CELLS
- 11:35 – 11:55 **T5-OL2 Geoffrey Thornton:**
SUBMERGED TiO₂: SURFACE CRYSTALLOGRAPHY AND ELECTRONIC STRUCTURE
- Parallel session – Ravel Hall**
- T1 – Fundamental Science**
Topic chair: **N. Kroó**
Session chair: **N. Kroó**
- 9:45 – 10:15 **Topical plenary lecture:**
T1-PL1 Naumi J. Halas
SOLAR STEAM GENERATION USING NANOPARTICLES
- 10:15 – 10:45 **Topical plenary lecture:**
T1-PL2 Annamária Nádor
ENERGY FROM THE DEEP SUBSURFACE – POTENTIALS OF GEOTHERMAL FOR A SUSTAINABLE SUPPLY OF INCREASING ENERGY DEMANDS
- 10:45 – 11:15 Coffee Break
Session chair: **Alberto Loarte**
- 11:15 – 11:35 **T1-OL1 Yves Martin**
NEW PLASMA CONFIGURATIONS IN THE TCV TOKAMAK, TCV UPGRADES:TWO STEPS TOWARDS THE REALISATION OF FUSION
- 11:35 – 11:55 **T1-OL2 Robert Tetot, Gaël Sattonnay**
ATOMISTIC SIMULATIONS OF OXIDES OF NUCLEAR INTEREST
- 11:55 – 12:15 **T1-OL3 Claude Degueldre, Carlo Fiorina**
THE GEO-REACTOR: A LINK BETWEEN NUCLEAR FISSION AND GEOTHERMAL ENERGY?
- Parallel session – Cordoba Hall**
- T2 – Emerging resources and technologies**
Topic chair: **N. Armaroli**
Session chair: **N. Armaroli**
- 9:45 – 10:15 **Topical plenary lecture:**
T2-PL1 Gabriele Centi
CHALLENGES AND PERSPECTIVES IN PRODUCING SOLAR FUELS FROM CO₂ AND H₂O
- 10:15 – 10:45 **Topical plenary lecture:**
T2-PL2 Thomas Klinger
THE NEW FUSION RESEARCH DEVICE WENDELSTEIN 7-X PRESENT STATUS, PHYSICS AND RESEARCH PLAN

- 10:45 – 11:15 Coffee Break
Session chair: **Abdelilah Slaoui**
- 11:15 – 11:35 **T2-OL1 C. Fabrega, T. Andreu, D. Monllor-Satoca, J.R. Morante**
SURFACE ENGINEERING TO IMPROVE NANOSTRUCTURED PHOTOANODES FOR SOLAR FUELS PRODUCTION
- 11:35 – 11:55 **T2-OL2 Frederic Reisdorffer, Bertrand Garnier, Nicolas Horny, Mihai Chirtoc, Thien Phap Nguyen**
THERMAL CONDUCTIVITY OF ORGANIC SEMI-CONDUCTING MATERIALS USING 3 OMEGA AND PHOTOTHERMAL RADIOMETRY TECHNIQUES
- 11:55 – 12:15 **T2-OL3 Alessandro Antonelli, Mauro Annunziato, Maurizio Grossoni, Stefano Pizzuti**
PRESENCE BASED ADAPTIVE CONTROL FOR INDOOR BUILDING LIGHTING
- 12:15 – 14:00 Lunch
- Parallel session – Ravel Hall**
- T1– Fundamental Science**
Topic chair: **N. Kroó**
Session chair: **Claude Degueldre**
- 14:00 – 14:20 **T1-OL4 Jan Mlynar, Didier Mazon, Vladimir Weinzettl, Martin Imrisek, Didier Vezinet, Viktor Loffelmann**
SPATIALLY RESOLVED SOFT X-RAY DIAGNOSTICS IN FUSION ENERGY RESEARCH
- 14:20 – 14:40 **T1-OL5 Alejandro Algora**
TOTAL ABSORPTION STUDY OF BETA DECAYS RELEVANT FOR NUCLEAR APPLICATIONS
- 14:40 – 15:00 **T1-OL6 Massimo Barbagallo**
NEUTRON CROSS-SECTIONS FOR ADVANCED NUCLEAR SYSTEMS: THE n_TOF PROJECT AT CERN
- 15:00 – 15:20 **T1-OL7 Federica Mingrone, the n_TOF Collaboration**
MEASUREMENT OF RADIATIVE CAPTURE CROSS SECTION ON 238U AT THE n_TOF CERN FACILITY
- 15:40 – 16:10 Coffee Break
Session chair: **Ádám Kiss**
- 16:10 – 16:30 **T1-OL8 I. Dirnstorfer, F. Benner, P.M. Jordan, D.K. Simon, T. Mikolajick**
DESIGN GUIDE LINES FOR SILICON HETEROJUNCTION METAL WRAP THROUGH SOLAR CELLS – A 3D SIMULATION STUDY

- 16:30 – 16:50 **T1-OL9 Watit Pakdee, Bawarnsak Yuwaganit**
ONVECTIVE HEAT TRANSFER IN A POROUS MEDIA FILLED WITH COMPRESSIBLE FLUID SUBJECTED TO MAGNETIC FIELD
- 16:50 – 17:10 **T1-OL10 Csaba Janaky, Csaba Visy, Krishnan Rajeshwar**
ENERGY APPLICATIONS OF (PHOTO)ELECTROSYNTHESIZED CONDUCTING POLYMER / SEMICONDUCTOR ASSEMBLIES
- 17:10 – 17:30 **T1-OL11 Julia Schumann, Robert Schlögl, Malte Behrens**
THE EFFECT OF Al-PROMOTION ON AURICHALCITE AS A PRECURSOR FOR Cu-BASED CATALYSTS FOR METHANOL SYNTHESIS

Parallel session – Cordoba Hall

T2 – Emerging resources and technologies

Topic chair: **N. Armaroli**

Session chair: **Juan Ramón Morante**

- 13:50 – 14:20 **Topical plenary lecture:**
T2-PL3 Boyan Kavalov:
ECONOMIC, ENVIRONMENTAL AND SOCIAL CONSIDERATIONS OF SHALE GAS IN THE EU
- 14:20 – 14:40 **T2-OL4 Luigi Cosentino, Carmelo Marchetta, Alfio Pappalardo, Carlotta Scire, Sergio Scire, Gianfranco Vecchio, Paolo Finocchiaro**
HELINED: HELIUM-3-FREE LOW-COST NEUTRON DETECTORS
- 14:40 – 15:00 **T2-OL5 Sylvain Quoilin, Vincent Lemort**
THE POTENTIAL OF THE ORC TECHNOLOGY FOR WASTE HEAT RECOVERY IN THE EU
- 15:00 – 15:20 **T2-OL6 Károly Tókési, David Tskhakaya, David Coster**
ATOMIC DATA FOR INTEGRATED TOKAMAC MODELLING
- 15:20 – 15:40 **T2-OL7 Tamás Belgya**
THE ROLE OF NUCLEAR METHODS IN ENERGY RESEARCH
- 15:40 – 16:10 Coffee Break
- Session chair: **N. Armaroli**
- 16:00 – 16:30 **Topical plenary lecture:**
T2-PL4 Katherine Wilson
THE EUROPEAN METROLOGY RESEARCH PROGRAMME (EMRP)
- 16:30 – 16:50 **T2-OL8 M. Ripani**
AN INTRINSICALLY SAFE INFRASTRUCTURE FOR TRAINING AND RESEARCH ON NUCLEAR TECHNOLOGIES

- 16:50 – 17:10 **T2-OL9 Marcel Skoumal, Javier Rubio-García, Cristina Flox, J.R. Morante**
 IMPROVED VANADIUM REDOX FLOW BATTERY CELLS
 FOR MEDIUM AND LARGE ENERGY STORAGE APPLICATIONS
- 17:30 – 19:00 **Poster Session**
 Chair: **Zsolt Fülöp**
- 20:00 – Organ Concert

Tuesday, 29 October 2013

- Chair: **Luisa Cifarelli** – *Ravel Hall*
- 9:00 – 9:45 **Plenary Lecture ITER:**
PL2 Alberto Loarte:
 ITER : DESIGN, CONSTRUCTION AND OPERATION OF THE
 FIRST EXPERIMENTAL NUCLEAR FUSION REACTOR
- 9:45 –10:30 **Plenary Lecture Organic Photovoltaics:**
PL3 Rene Janssen:
 STATUS AND CHALLENGES FOR POLYMER SOLAR CELLS
- 10:30 – 11:00 Coffee Break
- Parallel session – Ravel Hall**
- T4 – Economical and social aspects**
 Topic chair: **A. McEvoy**
 Session chair: **A. McEvoy**
- 11:00 – 11:30 **Topical plenary lecture:**
T4-PL1 Harald Bolt
 ENERGY MATERIALS RESEARCH IN THE CONTEXT OF
 THE SET PLAN
- 11:30 – 12:00 **Topical plenary lecture:**
T4-PL2 Christopher Watson
 PATHWAYS TO 2050: A UK PERSPECTIVE ON FEASIBLE
 ENERGY POLICIES
- 12:00 – 12:30 **Topical plenary lecture:**
T4-PL3 Adam Kiss
 A COMPARATIVE ANALYSIS OF ENVIRONMENTAL
 IMPACTS OF NON-FOSSIL ENERGY PRODUCTION METHODS

Parallel session – Cordoba Hall**T3 – Energy production, distribution and storage**Topic chair: **J. Ongena**Session chair: **J. Ongena**

11:00 – 11:30

Topical plenary lecture:**T3-PL1 Marc Schyns**

MYRRHA: A MULTIPURPOSE NUCLEAR RESEARCH FACILITY

11:30 – 12:00

Topical plenary lecture:**T3-PL2 Francesco Romanelli**

A ROADMAP TO THE REALIZATION OF FUSION ENERGY

12:00 – 12:30

Topical plenary lecture:**T3-PL3 Matthew Barnett**

THE APPLICATION OF LIQUID AIR ENERGY STORAGE FOR LARGE SCALE LONG DURATION SOLUTIONS TO GRID BALANCING

12:30 – 14:00

Lunch

Parallel session – Ravel Hall**T4 – Economical and social aspects**Topic chair: **A. McEvoy**Session chair: **Ákos Horváth**

14:00 – 14:20

T4-OL1 Endre Börcsök, János Osán, Szabina Török

THE POSSIBILITY OF STAKEHOLDER INVOLVEMENT IN MULTI-CRITERIA DECISION ANALYSIS FOR FUTURE ENERGY ALTERNATIVES

14:20 – 14:40

T4-OL2 Michael Düren

FROM DESERTEC TO DESERTEC 2.0

14:40 – 15:00

T4-OL3 Aira E Hast, Liisa McDermott, Marja Järvelä, Marja Syri

GREEN ELECTRICITY PRODUCTS IN THE UNITED KINGDOM, GERMANY AND FINLAND

15:00 – 15:20

T4-OL4 Martin Klein, Claudia Meier

SUBSIDIES AND TRANSNATIONAL VALUE CHAINS IN PHOTOVOLTAIC INDUSTRIES

15:20 – 15:40

T4-OL5 Piotr Swiatek

ENERGY RESEARCH FUNDING UNDER THE HORIZON 2020

15:40 – 16:10

Coffee Break

Session chair: **A. McEvoy**

16:00 – 16:30

Topical plenary lecture:**T4-PL4 Gerd H. Wolf**

PROBLEMS, CONSEQUENCES AND NECESSITIES OF A GROWING INSTALLATION OF INTERMITTENT RENEWABLES

- 16:30 – 16:50 **T4-OL6 Pieter Valkering, Erik Laes, Kris Kessels, Matthijs Uyterlinde, Koen Straver**
SMART CONSUMERS, CUSTOMERS AND CITIZENS: HOW TO ENGAGE END-USERS IN SMART ENERGY BEHAVIOUR?
- 16:50 – 17:10 **T4-OL7 Ákos Horváth**
THE MID AND LONG TERM STRATEGY OF THE HUNGARIAN NUCLEAR SAFETY RESEARCH
- 17:10 – 17:15 Short break
- T1 – Fundamental Science**
Topic chair: **N. Kroó**
Session chair: **J. M. Rubi**
- 17:15 – 17:35 **T1-OL12 Y. Jiang, R. Kunjanpillai, S. Chakraborty, F. Zhou, O. Blacque, T. Fox, H. Berke**
A DIVERSITY OF CHEMICAL STRATEGIES TO IMPLEMENT HOMOGENEOUS CARBON DIOXIDE HYDROGENATIONS
- 17:35 – 17:55 **T1-OL13 Adelbert P.H Goede**
PRODUCTION OF SOLAR FUEL BY CO₂ PLASMOLYSIS
- 17:55 - 18:15 **T1-OL14 Katharina Mette, Stefanie Köhl, Andrey Tarasov, Hendrik Düdler, Kevin Kähler, Martin Muhler, Robert Schögl, Malte Behrens**
SYNTHESIS AND CHARACTERIZATION OF LONG-TERM SINTERING-STABLE NI CATALYSTS FOR DRY REFORMING OF CO₂
- Parallel session – Cordoba Hall**
- T3 – Energy production, distribution and storage**
Topic chair: **J. Ongena**
Session chair: **Stefan Weitemeyer**
- 14:00 – 14:20 **T3-OL1 Diana Moneta, Giacomo Viganò**
OPTIMIZATION OF ACTIVE DISTRIBUTION NETWORKS: DESIGN AND ANALYSIS OF SIGNIFICATIVE CASE STUDIES FOR ENABLING CONTROL ACTIONS OF REAL INFRASTRUCTURES
- 14:20 – 14:40 **T3-OL2 Alaa Alhamwi, Thomas Vogt, David Kleinhans, Stefan Weitemeyer**
OPTIMAL MIX OF RENEWABLE POWER GENERATION IN THE MENA REGION AS BASIS FOR AN EFFICIENT ELECTRICITY SUPPLY TO EUROPE
- 14:40 – 15:00 **T3-OL3 Desti Alkano, J.M.A. Scherpen**
OPTIMAL STORAGE AND PRICING FOR EMBEDDING OF LOCAL GAS SUPPLY IN THE GAS GRID

- 15:00 – 15:20 **T3-OL4 Alfonso Arias Pérez, Thomas Vogt**
LIFE CYCLE ASSESSMENT OF CONVERSION PROCESSES
FOR THE LARGE-SCALE UNDERGROUND STORAGE OF
RENEWABLE ENERGY IN EUROPE
- 15:20 – 15:40 **T3-OL5 C. Cali, L. Cosentino, P. Litrico, A. Pappalardo,
C. Scire, S. Scire, G. Vecchio, P. Finocchiaro, S. Alfieri, A. Mariani**
ON-LINE REMOTE MONITORING OF RADIOACTIVE WASTE
REPOSITORIES
- 15:40 – 16:10 Coffee Break
- Session chair: **Marc Schyns**
- 16:10 – 16:30 **T3-OL6 József Steier**
NEW APPROACH IN BIOMASS PRODUCTION WITH A
PROGRSSIVE CLIMATE MITIGATION CONCEPT FOR A
SUSTANAIBLE WORLD
- 16:30 – 16:50 **T3-OL7 Samuli Rinne, Henrik Holmberg, Tiina Järvinen,
Kaisa Kontu, Sanna Syri**
WOOD CHIP DRYING IN CONNECTION WITH COMBINED
HEAT AND POWER OR SOLAR ENERGY IN FINLAND
- 16:50 – 17:10 **T3-OL8 Roman Adinberg, David Zvegilsky, Michael Epstein**
PHASE CHANGE MATERIALS STUDY IN THE
TEMPERATURE RANGE OF 300-400°C
- 17:10 - 17:30 **T3-OL9 W. Hering, R. Stieglitz, A. Onea, N. Diez de los Rios**
DIRECT ENERGY CONVERSION USING LIQUID METALS
- 20:00 – Conference Dinner

Wednesday, 30 October 2013

Parallel session – Ravel Hall

T1 – Fundamental Science

Topic chair: **N. Kroó**

Session chair: **N. Kroó**

- 9:00 – 9:30 **Topical plenary lecture:**
T1-PL3 Alessandro Abbotto
HYBRID AND ORGANIC MATERIALS AND DEVICES FOR
PHOTOVOLTAICS AND SOLAR FUELS
- 9:30 – 10:00 **Topical plenary lecture:**
T1-PL4 J. M. Rubi
EFFICIENCY OF THERMAL RADIATION ENERGY-
CONVERSION NANODEVICES

- 10:00 – 10:30 Coffee Break
Session chair: **Tamás Belgya**
- 10:30 – 10:50 **T1-OL15 Jean-Selva Rattinacannou**
A PROMISING NEW ENERGY SOURCE : THE BROWNIAN MOTION OF NANORESONATOR ARRAYS
- 10:50 – 11:10 **T1-OL16 J. S. Pap**
WATER SPLITTING FOR SOLAR ENERGY CONVERSION – TOWARDS ROBUST WATER OXIDATION CATALYSTS
- 11:10 – 11:30 **T1-OL17 L. Casali, M. Bernert, R. Dux, R. Fisher, A. Kallenbach, O. Kardaun, B. Kurzan, P. Lang, A. Mlynek, R.M. McDermott, F. Ryter, M. Sertoli, G. Tardini, H. Zohm**
TRANSPORT ANALYSIS OF HIGH RADIATION AND HIGH DENSITY PLASMAS IN THE ASDEX UPGRADE FUSION DEVICE
- Parallel session – Cordoba Hall**
T3 – Energy production, distribution and storage
Topic chair: **J. Ongena**
Session chair: **Gerd H. Wolf**
- 9:00 – 9:20 **T3-OL10 P. Antonini, S. Centro, S. Golfetto, A. Sacca**
CONCENTRATED PHOTOVOLTAICS, A CASE STUDY
- 9:20 – 9:40 **T3-OL11 P. Antonini, S. Centro, S. Golfetto, A. Sacca**
TWINFOCUS, A CONCENTRATED PHOTOVOLTAICS MODULE BASED ON MATURE TECHNOLOGIES
- 9:40 – 10:00 **T3-OL12 George Papageorgiou, Athanasios Maimaris, Savvas Hadjixenofontos, Petros Ioannou**
HELIOTROPE: AN EFFICIENT ENERGY MANAGEMENT APPROACH FOR SOLAR POWER PRODUCTION
- 10:00 – 10:30 Coffee Break
Session chair: **Livia Sarkadi**
- 10:30 – 10:50 **T3-OL13 Elke Schuster, Carlos Ziebert, Hans Jürgen Seifert**
ELECTROCHEMICAL-CALORIMETRIC STUDIES ON DIFFERENT LITHIUM ION POUCH CELLS
- 10:50 – 11:10 **T3-OL14 Marina V. Bukhtiyarova, Carlos A. Carrero Marquez, Johanna Taing, Robert Schlögl**
METHANOL SYNTHESIS ON COPPER-BASED CATALYSTS
- 11:30 – 11:35 Short Break
- 11:35 – 12:40 Chair: **Davi Lee (Ravel Hall)** – Round-table discussion
Topic chairs: **N. Kroó, J. Ongena, N. Armaroli, A. McEvoy, E. Renney**
- 12:40 – 13:00 CLOSING
- 13:00 – 14:00 Lunch

Poster Presentations

T1 – Fundamental Science

- T1-P1 Giuseppe Ciccarella, Giuseppe Vasapollo, Claudia Carlucci
MICROWAVE-SOLVOTHERMAL SYNTHESIS OF ANATASE TiO₂
NANOCRYSTALS
- T1-P2 Epameinondas Leontidis, Maria Christoforou, Charoula Georgiou,
Thomas Delclos, Marie-Claire Dul, Damien Bourgeois, Olivier Diat
PUTTING A SEPARATION TAG ON TRIVALENT LANTHANIDE IONS
USING NEUTRAL LIPIDS MONOLAYERS AND MICELLES
- T1-P3 M. Blasone, F. Dell'Anno, R. De Luca, G. Torre
MATHEMATICAL MODEL OF AN OFF-GRID HYBRID SOLAR AND
WIND POWER GENERATING SYSTEM
- T1-P4 A. Majzik, N. Ábraham, D. Sebők, G. Bohus, G. Tóth, I. Dékány
PLASMONIC AND ENHANCED FLUORESCENCE PROPERTIES OF
BIOCONJUGATED GOLD NANOSTRUCTURES
- T1-P5 A. Horváth, M.L. Németh, N. Nagy, Z. Schay, Zs. Kasztovszky, I. Sajó, G. Sáfrán
CARBON DIOXIDE REFORMING OF METHANE ON NANOSTRUCTURED
NICKEL-BASED CATALYSTS
- T1-P6 David Kleinhans
POTENTIAL OF DEMAND SIDE MANAGEMENT IN CONTINENTAL
EUROPE
- T1-P7 Michael Morozov, Iddo Pinkas, Michal Lahav, Milko E. van der Boom
INDUCING ENERGY TRANSFER WITHIN A COORDINATION-BASED
MOLECULAR ASSEMBLY
- T1-P8 R. Banica, R. Baies, R. Bucur, C. Locovei, A. Kellenberger, T. Nyari
STUDY OF LIQUID PHASE SYNTHESIS OF SILVER NANOWIRES FOR
SOLAR CELL APPLICATIONS
- T1-P9 T. Ollár, T. Szarvas, P. Tétényi
TRANSITION METAL SULFIDES FOR CLEANER ENERGY

T2 – Emerging resources and technologies

- T2-P1 Giuseppe Ciccarella, Agostina Lina Capodilupo
FLUORINE-THIOPHENE-SUBSTITUTED ORGANIC DYES FOR DYE
SENSITIZED SOLAR CELLS
- T2-P2 J. Cortés-Pérez, J.A. Ríos-Cortés, F. M. Sánchez A., F. N. García C, A Reyes S.
INFLUENCE OF CRYSTALLINE ORIENTATION ON THE THERMAL-
ENERGY CONVERSION EFFICIENCY IN SHAPE MEMORY ALLOYS
- T2-P3 Yu.G. Mateyshina, A.S. Ulihin, N.F. Uvarov
MECHANOCHEMICAL SYNTHESIS OF CARBON-BASED
NANOCOMPOSITES FOR SUPERCAPACITORS

- T2-P4 Yu. G. Mateyshina, A.S. Ulihin, A.A. Iskakova, A.S. Uhina, N.F. Uvarov
IONIC CONDUCTIVITY IN ALKALI NITRITES AND COMPOSITE
SOLID ELECTROLYTES BASED ON LiNO₂
- T2-P5 F.Tripicchio, F. Lamonaca, F. Nastro, M. Vasile, A. Nastro
ENERGY SAVING BY USING POWDER OF GRINDED USED TO
PRODUCE ASPHALT
- T2-P6 D. Olszewska, D. Nazimek
THE NEW METHOD OF CLEAN COMBUSTION OF COAL
- T2-P7 L. Russo, L. Cosentino, G. De Luca, A. Pappalardo, M. Piscopo, C. Scirè,
S. Scirè, G. Vecchio, G. Muscato, P. Finocchiaro
A ROBOTIC ARM FOR OPTICAL AND GAMMA RADWASTE
INSPECTION
- T2-P8 Abdelilah Slaoui
EUROSUNMED: EURO-MEDITERRANEAN COOPERATION ON
RESEARCH & TRAINING IN SUN BASED RENEWABLE ENERGIES
- T2-P9 Dietrich E. Wolf, Sebastian Angst, Gabi Schierning, Rafael Frieling,
Hartmut Bracht
HOW SILICON BECOMES A PROMISING THERMOELECTRIC
MATERIAL

T3 – Energy production, distribution and storage

- T3-P1 Davide Viganó, Robert P. Kenny, Gianluca Alimonti
STANDARDIZATION OF THE ENERGY PERFORMANCE OF
PHOTOVOLTAIC MODULES IN REAL OPERATING CONDITIONS
- T3-P2 Grazia Fattoruso, Saverio De Vito, Ciro Di Palma, Girolamo Di Francia
MONITORING ENERGY EFFICIENCY IN BUILDINGS
- T3-P3 M. Lahav, S. Shankar, R. Balgley, M. van der Boom
METAL-ORGANIC SUPRAMOLECULAR ARCHITECTURES FOR
ENERGY STORAGE
- T3-P4 C.W. Lee, S.D. Seo, D.W. Kim, S. Park, K. Jin, D.-W. Kim, K.S. Hong
HETEROEPITAXIAL GROWTH OF ZnO NANOSHEET BANDS ON
ZnCo₂O₄ SUBMICRON RODS TOWARD HIGH- PERFORMANCE Li ION
BATTERY ELECTRODES
- T3-P5 Se-Won Seo, Gi-Doo Lee, Lee Seul Oh, Jong-Ok Jeon, Kug Sun Hong,
Jin Young Kim
Cu(In,Ga)Se₂ (CIGS) THIN FILM SOLAR CELLS PREPARED BY THE
ELECTROCHEMICAL DEPOSITION USING HIGHLY STABLE
ELECTROLYTES

T4 – Economical and social aspects

- T4-P1 Miklós Árpási
SITUATION OF GEOTHERMAL ENERGY USE IN HUNGARY-2013
- T4-P2 G. Di Francia
THE IMPACT OF THE SCIENTIFIC RESEARCH ON THE LEVELIZED
ELECTRICITY COST FROM PHOTOVOLTAIC
- T4-P3 E.F. Jones
EVALUATION OF PERIODIC CONTRIBUTORS TO CLIMATIC
TEMPERATURE FLUCTUATIONS FROM HISTORIC DATA
- T4-P4 S.V.Kiseleva, L.V.Nefedova, J.Y.Rafikova, Y.V.Manjilevskiy
THE USE OF GEOINFORMATION TECHNOLOGIES FOR RENEWABLE
ENERGY AND REGIONAL ASPECTS OF DEVELOPING RENEWABLE
ENERGY IN RUSSIA