

Preliminary Program



LEBANESE UNIVERSITY



LEBANESE NATIONAL COUNCIL
FOR SCIENTIFIC RESEARCH



Liberté • Égalité • Fraternité
Ambassade de France au Liban

Service de Coopération et d'Action Culturelle

AMBASSADE DE FRANCE
AU LIBAN



The MEDGREEN Society (Decree. 1277)
MEDITERRANEAN DURABLY GREEN
CNRS Task force: Environment & Clean Energy (020610)

MEDGREEN 2011-LB CONFERENCE

Impact of Integrated Clean Energy on the Future of the Mediterranean Environment

April 14 -16, 2011

Lebanese University, Rafic Hariri University Campus

Beirut - Lebanon

Thursday, April 14 - 2011

07:30 Shuttle bus transportation from the hotel to the conference venue

08:00 - 9:00 **REGISTRATION**

09:00 - 10:00 **OPENING CEREMONY**

Prof. Chafic SALAME, *MEDGREEN President*, Lebanese University (5 min.)

Prof. Ali MNIEMNEH, *Dean of the Faculty of Sciences* - Lebanese University (5 min.)

Prof. Mouin HAMZEH, *General Secretary* - Lebanese National Council for Scientific Research (5 min.)

His Excellency Mr. Denis PIETTON, *French Ambassador to Lebanon* (5 min.)

Prof. Zouheir CHOKR, *Lebanese University President* (5 min.)

Inaugural Address: Prof. Hubert REEVES, *Albert Einstein Laureate* (30 min.)

10:00 - 10:30 **Ceremonial cocktail (Award honoring Dr. Hubert REEVES)**

10:30 -12:30 Plenary session I. Chair: Hassan CHARIF+B52; Co-chairs: Michel Aillerie, Ph.D. - Fawaz Massouh, Ph.D.- Chafic Salame, Ph.D.

Title/ Authors/ Affiliation/ COUNTRY

10:30 - 10:50 keynote Speaker: Ihab Farag, Ph.D.- University of New Hampshire (UNH) - USA

Microalgae Biodiesel: Towards Water Resources Conservation, Greenhouse Gas Mitigation and Energy and Food Security in the Mediterranean

10:50 - 11:00 P182. Building markets for energy savings equipment and modelling subsidy strategies in tourism dependent economies

Paraskevas Gravouniotis , Imperial College London - UK

11:00 - 11:10 P94. A Non-Linear Time Series Prediction Method for Missing Daily Flow Rate Data of Middle Firat Cathment

Burak BARUTCU, Aslihan ALBOSTAN , Istanbul Technical University - TURKEY

11:10 - 11:20 P192. Comparison of two methods for improving dehumidification in air conditioning systems

M. Ara Sayegh , Mohammad Hammad, Zakwan Faraa - University of Aleppo - SYRIA

11:20 - 11:30 P115. Stack Pressure and Airflow Movement in High and Medium Rise buildings

Maatouk Khoukhi and Asma Al-Maqbali, Sultan Qaboos University - OMAN

11:30 - 11:40 P154. Thermal-chemical treatment of solid waste mixtures

Cosmin MARCULESCU , University POLITEHNICA Bucharest - ROMANIA

11:40 - 11:50 P166. Experimental Investigation of Evacuated-Tube Solar Collector Performance under Mediterranean Climatic Conditions

Michel Hayek, Johnny Assaf, William Lteif, Notre Dame University - Louaize - LEBANON

11:50 - 12:00 P124. Performance and Evaluation of Aqua Ammonia Auto Air Conditioner System Using Exhaust Waste Energy

Khaled Saleem Al-Qudah, Tafila Technical University - JORDAN

12:00 - 12:10 P19. Synthesis and characterization of (PAni-n-Si) solar cell

K. Zaidan, basrah university - IRAQ

12:10 - 12:30 Questions / Answers

12:30 - 14:00 **Lunch Break**

14:00 - 15:30 Plenary session II Chair: Fouad El Haj HASSAN, Ph.D.; Co-chairs: Antoine ALAMANY , Ph.D.- Fouad ELKOURDY , Ph.D.- Ihab Farag, Ph.D.

Title/ Authors/ Affiliation/ COUNTRY

14:00 - 14:20 keynote Speaker: Gilles Falmant, Ph.D. - CNRS - PROMES Director - FRANCE

Future prospects of concentrated solar energy in the Mediterranean region

14:20 - 14:30 P187. CFD and PIV investigation of unsteady flow through Savonius wind turbine

Ivan Dobreva, Massouh Fawaz, ENSAM - Paris - FRANCE

14:30 - 14:40 P133. Smart Control of UPCQ within Microgrid Energy System

C. Benachaiba, Ahmed M. A. Haidar, M. Habab, O. Abdelkhalek, University of Bechar, (MALYSIA - ALGERIA)

14:40 - 14:50 *P73. Using Mud Bricks as a Temporary Solution for Gaza Reconstruction*

Samar Sheweka, The British University in Egypt - EGYPT

14:50 - 15:00 *P200. A MAS integrated into Home Automation system, for the resolution of power management problem in smart homes*

Hussein Joumaa, Stephane Ploix, Shadi Abras, Gregory De Oliveira, Grenoble university - FRANCE

15:00 - 15:10 *P81. Evaluating impact of electrified vehicles on fuel consumption and CO2*

Charbel Mansour, Elias Zgheib, Sabine Saba, Mines ParisTech - FRANCE

15:10 - 15:30 *Questions / Answers*

15:30 - 16:00 Coffee Break - Posters Discussions

16:00 - 18:00 *Plenary session III. Chair: Rafic YOUNES , Ph.D.; Co-chairs: Adrian Ilinca, Ph.D. - Burak BARUTCU, Ph.D. - Elias NASSAR, Ph.D.*

Title/ Authors/ Affiliation/ COUNTRY

16:00 - 16:20

16:20 - 16:30 *P204 . Integration of Wind Energy into Electricity Systems: Technical Challenges and Actual Solutions*

Hussein Ibrahim, M.Dimitrova, Rafic Younès, Adrian Ilinca, Jean Perrond, Murdochville , Québec, CANADA

16:30 - 16:40 *P13. Emissivity influence on the radiatives thermal properties of Metal in the solar distiller*

Nassim BABA AHMED , Université Abou Bekr BELKAÏD - TLEMCEN - ALGERIA

16:40 - 16:50 *P33. Wind potential assessment of Adrar region, Algeria*

M. djamai, N. Kasbadji Marzouk, CDER - ALGERIA

16:50 - 17:00 *P92. Quasi-Steady State Modeling of an Air Source Heat Pump Water Heater*

Farouk Fardoun, Oussama Ibrahim, Assaad Zoughaib , IUT- Lebanese University, Ecole des Mines de Paris - FRANCE, LEBANON

17:00 - 17:10 *P34. Kinetic and isotherm study of heavy metals removal by adsorption onto peanut husks incinerated residues*

Samir TAHA, Sophie RICORDEL, Ibrahim CISSE , Faculté de santé publique III, Université Libanaise- LEBANON

17:10 - 17:20 *P177. New architecture for high efficiency DC-DC converter dedicated to photovoltaic conversion*

Pierre Petit, Abdallah Zgaoui, Jean-Paul Sawicki, Michel Aillerie, Jean-Pierre Charles, Paul Verlaine Univ. of Metz & Supelec - FRANCE

17:20 - 17:30 *P99. Renewable Energy Controller System*

Elie Barakat, Nisrine Sinno, Lebanese University, Faculty of Engineering Roumieh, Faculty of Sciences - LEBANON

17:30 - 17:40 *P173. Integration limit of renewable energy systems in small electrical grid*

Gilles Notton, Ludmil Stoyanovb, Motaz Ezzata, Vladimir Lararovb, Said Diafe, Christian Cristofari, University of Corsica Technical University of Sofia - FRANCE, BULGARIA, ALGERIA

17:40 - 18:00 *Questions / Answers*

18:00 **Shuttle bus transportation to the hotel**

20:30 **Shuttle bus to Beirut Down town (Dinner is not included)**

Friday, April 15 - 2011

08:30 **Shuttle bus transportation from the hotel to the conference venue**

9:00 - 10:30 *Plenary session IV. Chair: Chafic SALAME, Ph.D.; Co-chairs: Noureddine ZERHOUNI , Ph.D.- Khalaf ABDALLAH, Ph.D. - Georges SEMAAN, Ph.D.*

Title/ Authors/ Affiliation/ COUNTRY

09:00-09:20 *keynote Speaker: Prof. Jean-Marie CASTELAIN, Ph.D. - Arts et Métiers ParisTech - FRANCE*

Programmes européens pour la coopération avec les Pays méditerranéens.

09:20-09:30 *P169. Electric Load Disaggregation in Smart Metering Using a Novel Feature Extraction Method and Supervised Classification*
K. Chahine, K. El Khamlichi Drissi, Ch. Pasquier, K. Kerroum, C. Faure, Th. Jouannet, M. Michou, Blaise Pascal University - FRANCE

09:30-09:40 *P109. Design of an ORC system operating with solar heat and producing hot sanitary water*
E. Bou Lawz Ksayera, MINES ParisTech - FRANCE

09:40-09:50 *P125. Environmental, economic & social aspects of the electrification on the non-interconnected islands of the Aegean Sea*
Kasselouri B., Kambezidis H., Zevgolis D., Konidari P. , Hellenic Open University - GREECE

09:50-10:00 *P181. Wind Energy Output Estimation Using Weibull - representative Data in Chennai, India*
S. Vijayavenkataraman, Anna University, Shennai, INDIA

10:00-10:10 *P76. Deposition time dependent optical characteristics of chemically deposited nanostructure PbS thin films.*
M.M.Abbas, A. Ab-M. Shehabb, A-K. Al-Samuraec, and N-A. Hassanb, college of science, Baghdad University - IRAQ

10:10-10:30 *Questions / Answers*

10:30-11:00 **Coffee Break - Posters Discussions**

11:00-12:30 *Plenary session V. Chair: Gaby KHOURY, Ph.D.; Co-chairs: Hassan TINA, Ph.D. - Gille NOTTON, Ph.D. - Ziad KALLASY, Ph.D.*

Title/ Authors/ Affiliation/ COUNTRY

11:00 - 11:20 *keynote Speaker: Adrian ILINCA, Ph.D. - Quebec University Rimousky - CANADA*
Wind energy industry in Canada – strategies and policies, challenges and opportunities for research and development

11:20 - 11:30 *P179 . Environmental crimes*

Janane EL-Khoury, Lebanese University, LEBANON

11:30 - 11:40 *P44. Design and realization of LED Driver for solar street lighting applications*

Mohamed FATHI , UDES/ SOLAR EQUIPMENTS RESEARCH UNIT, ALGERIA

11:40 - 11:50 *P19. Synthesis and characterization of (PAni-n-Si) solar cell*

K. Zaidan, Basrah University - IRAQ

11:50 - 12:00 *P162. Impacts of atmospheric pollution on climate change – Laboratory studies*

Gisèle EL DIB, University of Rennes 1- FRANCE

12:00 - 12:10 *P96. Studying , testing, and simulating floor heating solar system*

Heba AL Maleh, Hussen Ali Tina, Damascus University - SYRIA

12:10-12:30 *Questions / Answers*

12:30-14:00 **Lunch Break**

14:00 - 15:30 *Plenary session VI. Chair: Georges RAHBANI, Ph.D.; Co-chairs: Louay CHACHATI , Ph.D.- Michel HAYEK, Ph.D. - Roy ASMAR, Ph.D.*

Title/ Authors/ Affiliation/ COUNTRY

14:00 - 14:20 *keynote Speaker: Fawaz Massouh, Ph.D. - Arts et Metiers ParisTech - CER de Paris - FRANCE*

Analysis of Flow in the case of wind turbines

14:20 - 14:30 *P116. Modelling of biomass combustion process*

Monica Roman, Eugen Bobasu, Dan Selisteanu, University of Craiova - ROMANIA

14:30 - 14:40 *P201 . Potential of a Hybrid Wind-Diesel-Compressed air system for Nordic Remote Canadian Areas*

Hussein Ibrahim, M.Dimitrova, Rafic Younès, Adrian Ilinca, Jean Perrond, Murdochville, Québec - CANADA

14:40 - 14:50 *P202. Concentration Heating System with Optical Fiber Supply*

S. Amara, B. Nordell, B. Benyoucef, A. Benmoussat - Uleå University of Technology (LTU) - SWEDEN

14:50 - 15:00 *P189 . Experimental investigation on a double slope solar still with partially cooled condenser in the region of Ouargla (Algeria).*

zeroual mostefa, Batna University - ALGERIA

15:00 - 15:10 *P31. Numerical Simulation of Solar Absorption Machine*

Sahar FAYAD, Rafik YOUNES, Said ABBOUDI - Universite de technologie de Belfort Monbeliard - FRANCE

15:10 - 15:30 *Questions / Answers*

15:30 -16:00 Coffee Break - Posters Discussions

16:00-17:30 *Plenary session VII. Chair: Mario ELTAHCHI, Ph.D.; Co-chairs: Hassan CHARIF , Ph.D.- Jean-Luc BESSEDE, Ph.D. - Nachida KASBADJI MARZOUK, Ph.D.*

Title/ Authors/ Affiliation/ COUNTRY

16:00 - 16:10 *P178. Photovoltaic Cell-Panel-Array Characterizations and Modelling considering Both Reverse and Direct Modes*

A. Zegaoui, P. Petit , M. Aillerie , J.P. Sawicki , A.W. Belarbi , M.D. Krachai, and J.P. Charles, Paul Valerian University of Metz - **FRANCE**

16:10 - 16:20 *P20. Thermo acoustic MHD electrical generator*

Alemany Antoine, Mohamad ALRADI UMR CNRS-INP Grenoble - **FRANCE**

16:20 - 16:30 *P188. Optimal study design for Wind farm in Arwad island*

Rodeyna Amer, Damascus university-**SYRIA**

16:30 - 16:40 *P102. Effect of the Properties of the Working Fluid on the Efficiency of a Flat Plat Collector*

Saadi Souad and Chakrer Abla, University Mentouri Constantine - **ALGERIA**

16:40 - 16:50 *P161. The Living walls as an Approach for a Healthy Urban Environment*

Samar sheweka and nourhan magdy, The British University in Egypt - **EGYPT**

16:50 - 17:00 *P29. Towards the Development of Photovoltaic Solar Cells-Case Study CdS-CdTe Thin Films*

Abdulkader hariri, Alepo University - **SYRIA**

17:00 - 17:120 *P170. Fuzzy Logic Control for the tracking of maximum power point of a PV system*

F.Bouchafa, I.Hamzaoui, A.Hadjammar, University of Sciences and Technology Houari Boumediene, **ALGERIA**

17:10 - 17:30 *Questions / Answers*

17:30 -19:00 Posters Session

19:00 **Shuttle bus transportation to the hotel**

20:00 **Shuttle bus transportation from the hotel to the restaurant**

20:30 **[Gala Dinner - Al Amine resturant](#)**

??? ***Shuttle bus to the Hotel***

Saturday, April 16 - 2011

08:30 Shuttle bus transportation from the hotel to the conference venue

09:00 - 10:30 **CLOSING SESSION**

9:00 - 10:00 Conference highlights (Findings & Recommendations)

10:00 - 10:30 Conference closing note & future announcements.

10:30 - 16:00 ***Guide tour to the city of great antiquity BYBLOS (more information will be provided later)***

Poster Zone

Posters

Title/ Authors/ Affiliation/ COUNTRY

Zone A **P1.** Tin Oxide n- type Semiconductor Inverted to p- type Semiconductor Prepared by Sol-gel Method

Mouhamd Anwar Batal, Fares Haj Jneed, Aleppo University - SYRIA

Zone A **P2.** TiO₂ doped with SnO₂ and studying its structural and electrical properties

Mustafa Afuoni, Ghassan Nashed, ISSam Mohammed Nasser, Aleppo University - SYRIA

Zone A **P3.** Design and Experimental Study for Using PV/T Collectors in the Faculty of Mechanical Engineering University of Aleppo

Marderos Ara Sayegh, Nabhan Khayata, Tamar Nahhas, Aleppo University -SYRIA

Zone A **P4.** Numerical Investigation of Horizontal Ground Coupled Heat Exchanger

Abdeylah Benazza, Eduardo Blanco, Mostefa Aichouba, José Luis Rio, Samir Laouedj, University of Sidi Bel Abbes - ALGERIA

Zone A **P5.** Influence of depletion region width on performance of solar cell under sunlight concentration

Khalaf AL ABDULLAH and Bashar BAKOUR, Aleppo University - SYRIA

Zone A **P6.** Hydrogen production over CuIn₃Se₅-WO₃ hetero-junction

Lyakout Djellala, Bachir Bellal, Mohammed Trarib, Physics Faculty - ALGERIA

Zone A **P8.** Using Fougara for heating and cooling buildings in Sahara

S. AMARA, B. NORDELL, B. BENYOUCEF, Lulea University of Technology (LTU), SE-97187 Lulea, SWEDEN - SWEDEN

Zone A **P9.** Computational modeling of the transport and electrochemical phenomena in solid oxide fuel cells

Hocine. Mahcenea, Hocine Ben Moussab, Hamza. Bouguettaiaa, Djamel. Bechkia, Mostefa Zeroual, Ouargla University - ALGERIA

- Zone A P16.** *PVSST 1.0 sizing and simulation tool for PV systems*
M. Chikh, A. Mahrane, F. Z. Bouachri, Unité de Développement des Equipements Solaires (UDES) - **ALGERIA**
- Zone B P17.** *Performance and emission features of a spark-ignition engine fuelled by hydrogen-enriched compressed natural gas (HCNG)*
Fethia Amrouchea, Ahmed Benzaouib, Farid Herouadic, Bouziane Mahmaha, Maiouf Belhamela, CRED - **ALGERIA**
- Zone B P22.** *Applications of Radial basis function and Generalized regression neural networks for modelling of coagulant dosage in a drinking water*
Salim HEDDAM, Abdelmalek BERMAD, Noureddine DECHEMI, University 20 Août 1955 SKIKDA - **ALGERIA**
- Zone B P23.** *Exploitation of albian geothermal water in South Algeria*
Salima Ouali, Abdellah Khellaf, Kamel Baddari, Mebrouk Djeddi, Zahia Benaïssa, Maiouf Belhamel, CDER - **ALGERIA**
- Zone B P28.** *Thermal requirements and temperatures evolution in an ecological house*
M A Boukli Hacene, S Amara, N E Chabane Sari, Abou Bekr Belkaid University of Tlemcen - **ALGERIA**
- Zone B P30.** *Analysis of solar radiation measurements at Ghardaïa area, south Algeria*
Kacem GAIRAA, Said BENKACIALI, Applied Research Unit for Renewables Energies - **ALGERIA**
- Zone B P36.** *Start-up test of an underground digester treating organic waste*
Kalloum.s, Khalafi.M, Jaafri.M, Tahri.A, Salem.F, Kaidi.K et Touzi. A, Renewable energy research unit in the Sahara medium - **ALGERIA**
- Zone B P40.** *Influence of Air Mass on the Performance of Many Types of PV Modulus in Baghdad*
Alaa H. Shnishil, Sami S. Chid, Mohammed J. Yaseen and Tariq Jaffar Alwan, Al-Mustansiriyah University - **IRAQ**
- Zone B P48.** *Optimisation of the Photovoltaic Pumping System Control*
Chergui M.Ia Bourahla Mb, University of Mascara - **ALGERIA**
- Zone B P51.** *Numerical study of the convection in the air gap of a solar collector*
FERAHTA Fatima Zohra, Saadi BOUGOUL, ABABSA Dalila, ABID Nora, University of Batna - **ALGERIA**
- Zone C P57.** *Ecodesign Criteria for Onshore and Offshore Composite Wind Turbine Blades*
B. Attaf, Expert in Composite Materials & Structures, Marseille, 13014 - **FRANCE**
- Zone C P58.** *Instantaneous performance of the first integrated solar combined cycle system in Algeria.*
Omar Behar, Abdallah Kellaf, Kamal Mohamedi, Maiouf Belhamel, CDER - **ALGERIA**
- Zone C P59.** *Synthesis and characterization of AnO2 Nanocrystallite films formed by electrodeposition in nitric acid solution*
Lakhdari Delloula, UTDS - ALGERIA
- Zone C P60.** *Study of energy transfer by electron cyclotron resonance in tokamak plasma*
Naima Ghoutia SABRI, Université de Bechar - **ALGERIA**
- Zone C P61.** *Computational modelling of the transport and electrochemical phenomena in solid oxide fuel cells*
hocine mahcen e, Ouargla university - **ALGERIA**
- Zone C P65.** *Evolution of solar radiation in Ghardaïa site, southern Algeria*
Said Benkaciali, Kacem Gairaa, Applied Research Unit for Renewable Energy - **ALGERIA**
- Zone C P66.** *Kinetic Study of RTM6/TiO2 by Thermal Thermogravimetric Analysis*

MERAD Laarej, University of Mascara - ALGERIA

- Zone C P69.** *Numerical Results on Operating Parameters Influence for a Heat Recovery Adsorption Machine*
W.Chekirou, R. Boussehainb, M. Feidtb , A. Karaalia, N. Boukheit, Université Mentouri de Constantine - ALGERIA
- Zone C P70.** *Study of two types of cylindrical absorber of a spherical concentrator*
BELLEL Nadir, Université Mentouri de Constantine - ALGERIA
- Zone D P71.** *New strategy of upgrading slum areas in developing countries using vernacular trends to achieve a sustainable housing development*
Tamer Abdel Aziz1, Indjy M.Shawket, Cairo University - EGYPT
- Zone D P72.** *Effects of some Passive Systems on Energy Performances of a Villa Type Building in Marrakech*
D. Laaouina, B. Benhamou, A. Bennoun, M. J. Jeminez & R. Eenriquez, Cadi Ayyad, Marrakech - MOROCCO
- Zone D P77.** *Impact of the equivalence ratio and the mass flow rate on turbulent lean premixed prevaporized combustion*
Fethi Bourasa, Azeddine Soudania, Université HL – Batna - ALGERIA
- Zone D P83.** *Towards a green building law in Egypt : opportunities and challenges*
Usama Elfiky, Kafr Elshiekh Univeity - EGYPT
- Zone D P85.** *Experimental study of coupling complexation-adsorption of Cu(II) on activated carbon*
M. Chikhi, F. Balaska, R.Benchaabi, A. Ayat, K. Maameche , A-H. Meniai, Université Mentouri - ALGERIA
- Zone D P86.** *Simulation of a solar domestic water heating system*
zeghib ilhem-Abla chaker, University Mentouri- Constantine - ALGERIA
- Zone D P89.** *Rheological study & valorization of waste sludge from wastewater treatment plants in the dredging operation of hydraulic dams*
Larbi Hammadi, University of Science and Technology - ALGERIA
- Zone D P90.** *Wear damage of carbon-polyethylenimine composite*
Ahmed HEBBAR and Nouredine MAHMOUDI, University of Mostaganem- ALGERIA
- Zone D P91.** *Algerian energy strategy in the context of sustainable development (Legal framework)*
A.Ghezloun; S.Chergui; N. Oucher, CDER- ALGERIA
- Zone E P97.** *Refrigerants and their impact in the environment. Use of the solar energy as the source of energy*
Samira BENHADID-DIB; Ahmed BENZAOUI, USTHB- ALGERIA
- Zone E PI00.** *Economic and environmental analysis for grid-connected hybrid photovoltaic-wind power system in the arid region*
koussa djohra Née SAHEB, CDER- ALGERIA
- Zone E PI01.** *Optimization of Greenhouse Climate Model Parameters Using Particle Swarm Optimization and Genetic Algorithms*
Abdelhafid Hasni, Rachid Taibi, Belkacem Draoui &Thierry Boulard, Universié de Béchar-INRA- ALGERIA - FRANCE
- Zone E PI03.** *Effect of changing the geometry of the glass cover on the productivity of a solar still, theoretical analysis*
Karroute Salima, Chaker abla, Mentouri- Constantine- ALGERIA
- Zone E PI06.** *Use of fiber Luffa Cylindrica for waters traitement charged in copper.*
Y. LAIDANI; S. HANINI; G. HENINI, Hassiba Ben Bouali University- ALGERIA
- Zone E PI07.** *Optimization for using Waste Heat Recovery System and Enthalpy Economizer Controller Saving in HVAC System*

M. M. ABO ELAZM, A. F. ELSAFTY, A. M. ELHARIDI, Arab Academy for Science- **EGYPT**

Zone E P110. *Coating an inductive model of industrial development with optimized flows for reducing its environmental impacts*
Adil MAMOUNE, Adnan YASSINE, Université du Havre- **FRANCE**

Zone E P113. *Behavior of the intervertebral disc subjected to physiological couples*
Mohamed bendoukha, University of Mostaganem – **ALGERIA**

Zone E P114. *Simulation of the opti-physical parameters of selectives surfaces of absorber by the FDTD method*
F.HADDAD,A. CHIKOUCHE, M. LAOUR, UDES - **ALGERIA**

Zone F P119. *Study of adsorption of copper on biomass pleurotus mutilus and the possibility of its regeneration by desorption*
G. HENINI, Y. LAIDANI; F. SOUAHI, Hassiba Ben Bouali University- **ALGERIA**

Zone F P120. *Supervision and control to improve the productivity of batch reactor equipped with a mono-fluid heating / cooling system*
G. HENINI, F. SOUAHI; Y. LAIDANI, Hassiba Ben Bouali University- **ALGERIA**

Zone F P121. *Assessment of wind and solar energy resources in Batna, Algeria,*
Mounir AKSAS, Hadj Lakhdar University- **ALGERIA**

Zone F P127. *Analytical Expressions of the Intermediate Pressure*
Rabah GOMRI, University of Constantine- **ALGERIA**

Zone F P128. *Effect of Low Pressure Generator Temperature on the Performance of Double Effect Vapour Absorption Heat Transformer*
Rabah GOMRI, University of Constantine- **ALGERIA**

Zone F P129. *RESOLUTION OF THE HEAT EQUATION IN THE SQUARE FORM FOUR*
Taloub Djedid , Beghidja Abd el hadi, Constantine University- **ALGERIA**

Zone F P132. *Investigation of the behavior of a 3 phase grid-connected photovoltaic system to control active & reactive power with DPC*
F.BOUCHAFAA, I.HAMZAOUI, S.HADJAMMAR, USTHB- **ALGERIA**

Zone F P136. *Elimination of copper ions from wastewater by modified orange peels*
khalfaoui Amel, Meniai Abdesslam Hassen, Université Mentouri De Constantine- **ALGERIA**

Zone F P137. *Use of IWA ADM1 model N°1 to simulate anaerobic digestion of organic waste in thermophilic temperature*
Derbal kerroum, Bencheikh-Lehocine Mossaab, Meniai Abdesslam Hassen, University of Verona- **ITALY**

Zone G P138. *Optimization of energy management of a photovoltaic system by the fuzzy logic technique*
F. Chekired, A. Mahrane, M. Chikh, Z. Smara, UDES- **ALGERIA**

Zone G P139. *Hybrid system based renewable energy for dwellings: Morocco study case*
P. Poulet, R. Outbib, LSIS- **FRANCE**

Zone G P142. *Improvement of the electrical energy quality using a Shunt Active Filter supplied by a photovoltaic generator.*
R.Belaidi, A. Haddouche, M. Fathi, M. Mghezzi Larafi, A. Chikouche, UDES- **ALGERIA**

Zone G P143. *Numerical study of the vertical solidification process*
Nouri Sabrina, 2Benzeghiba Mouhamed, 3Benzaoui Ahmed, Silicon Technology Development Unity- **ALGERIA**

Zone G P145. *Implementation of a MPPT fuzzy controller for photovoltaic systems on FPGA circuit*
F. Chekired, C. Larbes. D. Rekioua, F. Haddad, Ecole nationale polytechnique d'Alger- **ALGERIA**

- Zone G P151.** *Production of biogas from the organic solid waste in thermophilic phase*
Derbal Kerrouma*, Bencheikh-Lehocine Mossaaba, Meniai Abdesslam-Hassena, Université Mentouri- **ALGERIA**
- Zone G P153.** *Poultry processing industry waste to energy conversion*
Cosmin MARCULESCU, Constantin STAN, University POLITEHNICA Bucharest- **ROMANIA**
- Zone G P155.** *A comparative study between parabolic trough collector and linear Fresnel reflector technologies*
Najla El Gharbi, Halima Derbal, Sofiane Bouaichaoui, Noureddine Said, Center for Renewable Energy Development- **ALGERIA**
- Zone G P157.** *Investigation of an evaporative air cooler using solar energy under Algerian climate*
S. Elmetenai, M.L. Yousfi, L. Merabti, Z. Belgroun, A. Chikouche, UDES- **ALGERIA**
- Zone H P159.** *Energy and exergy analysis of the solar drying process of Mint*
Amel Boulemtafes-Boukadoum, Ahmed Benzaoui Centre de Developpement des Energies Renouvelables- **ALGERIA**
- Zone H P165.** *Yield of an improved solar still: numerical approach*
M, BOUBEKRI and A, CHAKER, University of Constantine- **ALGERIA**
- Zone H P172.** *SOFc fuel cell heat production: Analysis*
Zitouni Bariza, Abdenebi H, Ben Moussa H, Haddad, University of Batna - **ALGERIA**
- Zone H P174.** *HYBRID PHOTOVOLTAIC-WIND ENERGY SYSTEMS FOR REMOTE LOCATIONS*
Gilles Notton, Said Diafb, Ludmil Stoyanovca, University of Corsica, CDER, Technical University of Sofia- **France- ALGERIA- Bulgaria**
- Zone H P191.** *Hybrid Options Analysis for Power Systems for Rural Electrification in Algeria*
D.Saheb-Koussa, M.Haddadi , M.Belhamela & M.Koussa, CDER- **ALGERIA**
- Zone H P193.** *Comparison Study to Select an Optimum Photovoltaic Pumping*
A Boutelhig , A.Hadjarab, Y Bakelli, Applied Research Unit for Renewable Energies- **ALGERIA**
- Zone H P194.** *Unsteady Loads Evaluation for a Wind Turbine Rotor using free wake method*
Said CHKIR, Damascus University- **SYRIA**
- Zone H P203.** *Energy strategy in the context of sustainable development (legal framework)*
Antoine ALEMANY , Armands KRAUZE, Mahmoud AL RADI, CNRS-INP Grenoble-Aleppo University- **SYRIA - FRANCE**
- Zone H P205.** *Formation of Colloidal Crystal and Thin Films of Red luminescent Silicon Nanoparticles in Chloroform*
Mouna El-Chehabi - Aleppo University - **SYRIA**
- Zone H AI68.** *Use of tobacco plants as bioindicators to assess the ambient ozone in algiers. A preliminary study under climatic conditions*
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