

Preliminary Program

MEDGREEN 2011-LB: CONFERENCE

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

April 14th - 15th - 16th, 2011

Lebanese University, Rafic Hariri University Campus

Hadath - Lebanon

Thursday, April 14 - 2011

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| 7:30 | Shuttle bus transportation from the hotel to the conference venue |
| 08:00 - 9:00 | REGISTRATION |
| 09:00- 10:00 | <u>OPENING CEREMONY</u> Prof. Chafic SALAME , <i>MEDGREEN President</i> , Lebanese University (5 min.) prof. Ali MNIEMNEH , <i>Dean of the Faculty of Sciences</i> - Lebanese University (5 min.) prof. Mouïñ HAMZEH , <i>General Secretary</i> -Lebanese National Council for Scientific Research (5 min.) his Excellency Mr. Denis PIETTON , <i>French Ambassador to Lebanon</i> (5 min.) prof. Zouheir CHOKR , <i>Lebanese University President</i> (5 min.) <i>Inaugural Address</i> : Prof. Hubert REEVES , <i>Albert Einstein Laureate</i> (30 min.) |
| 10:00 - 10:30 | Ceremonial cocktail (Award honoring Dr. Hubert REEVES) |
| 10:30 - 12:30 | <u>Plenary session I</u> . Chair: Hassan CHARIF; Co-chairs: Michel Aillerie, Ph.D. - Fawaz Massouh, Ph.D. - Chafic Salame, Ph.D. Title / <u>Authors</u> / Affiliation / <u>COUNTRY</u> |
| 10:30 - 10:50 | <u>keynote Speaker</u> : 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 |

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| 12:10 - 12:30 | <i>Questions / Answers</i> |
| 12:30 - 14:00 | Lunch Break |
| 14:00 - 15:30 | Plenary session II. Chair: Georges RAHBANI, Ph.D.; Co-chairs: Louay CHACHATI, Ph.D.- Michel HAYEK, Ph.D. - Roy ASMAR, Ph.D. |
| | <u>Title / Authors / Affiliation / COUNTRY</u> |
| 14:00 - 14:20 | keynote Speaker: Gilles Falmant, Ph.D. - CNRS - PROMES Director - FRANCE |
| | <i>Future prospects of concentrated solar energy in the Mediterranean region</i> |
| 14:20 - 14:30 | P187. CFD and PIV investigation of unsteady flow through Savonius wind turbine |
| | <i>Ivan Dobрева, Massouh Fawaz, ENSAM - Paris - FRANCE</i> |
| 14:30 - 14:40 | P133. Smart Control of UPCQ within Microgrid Energy System |
| | <i>C. Benachaiba, Ahmed M. A. Haidar, M. Habab, O. Abdelkhalek, University of Bechar, (MALYSIA - ALGERIA)</i> |
| 14:40 - 14:50 | P73. Using Mud Bricks as a Temporary Solution for Gaza Reconstruction |
| | <i>Samar Sheweka, The British University in Egypt - EGYPT</i> |
| 14:50 - 15:00 | P200. A MAS integrated into Home Automation system, for the resolution of power management problem in smart homes |
| | <i>Hussein Joumaa, Stephane Ploix, Shadi Abras, Gregory De Oliveira, Grenoble university - FRANCE</i> |
| 15:00 - 15:10 | P81. Evaluating impact of electrified vehicles on fuel consumption and CO2 |
| | <i>Charbel Mansour, Elias Zgheib, Sabine Saba, Mines ParisTech - FRANCE</i> |
| 15:10 - 15:30 | <i>Questions / Answers</i> |
| 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. |
| | <u>Title / Authors / Affiliation / COUNTRY</u> |
| 16:00 - 16:10 | P204. Integration of Wind Energy into Electricity Systems: Technical Challenges and Actual Solutions |
| | <i>Hussein Ibrahim, M.Dimitrova, Rafic Younès, Adrian Ilinca, Jean Perrond, Murdochville, Québec, CANADA</i> |
| 16:10 - 16:20 | P13. Emissivity influence on the radiatives thermal properties of Metal in the solar distiller |
| | <i>Nassim BABA AHMED, Université Abou Bekr BELKAÏD - TLEMCEN - ALGERIA</i> |
| 16:20 - 16:30 | P33. Wind potential assessment of Adrar region, Algeria |
| | <i>M. djamai, N. Kasbadji Marzouk, CDER - ALGERIA</i> |
| 16:30 - 16:40 | P92. Quasi-Steady State Modeling of an Air Source Heat Pump Water Heater |
| | <i>Farouk Fardoun, Oussama Ibrahim, Assaad Zoughaib, IUT- Lebanese University, Ecole des Mines de Paris - FRANCE, LEBANON</i> |
| 16:40 - 16:50 | P34. Kinetic and isotherm study of heavy metals removal by adsorption onto peanut husks incinerated residues |
| | <i>Samir TAHA, Sophie RICORDEL, Ibrahim CISSE, Faculté de santé publique III, Université Libanaise- LEBANON</i> |
| 16:50 - 17:00 | P177. New architecture for high efficiency DC-DC converter dedicated to photovoltaic conversion |
| | <i>Pierre Petit, Abdallah Zgaoui, Jean-Paul Sawicki, Michel Aillerie, Jean-Pierre Charles, Paul Verlaine Univ. of Metz & Supelec - FRANCE</i> |
| 17:00 - 17:10 | P99. Renewable Energy Controller System |
| | <i>Elie Barakat, Nisrine Sinno, Lebanese University, Faculty of Engineering Roumieh, Faculty of Sciences - LEBANON</i> |
| 17:10 - 17:20 | P173. Integration limit of renewable energy systems in small electrical grid |
| | <i>Gilles Notton, Ludmil Stoyanovb, Motaz Ezzata, Vladimir Lararovb, Said Diafc, Christian Cristofari, University of Corsica Technical University of Sofia - FRANCE, BULGARIA, ALGERIA</i> |
| 17:20 - 17:40 | <i>Questions / Answers</i> |
| 17:40 - 18:30 | Posters Session |
| 18:30 | Shuttle bus transportation to the hotel |
| 20:30 | Shuttle bus to Beirut Down town (Dinner is not included) |

Friday, April 15 - 2011

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| 8:30 | 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 / <u>Authors</u> / Affiliation / <u>COUNTRY</u> |
| 09:00-09:20 | keynote Speaker: Prof. Jean-Marie CASTELAIN, Ph.D. - Arts et Métiers ParisTech - FRANCE <i>Programmes européens pour la coopération avec les Pays méditerranéens.</i> |
| 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. Shehab, A-K. Al-Samuraec, and N-A. Hassanb, college of science, Baghdad University - IRAQ |
| 10:10-10:30 | <i>Questions / Answers</i> |
| 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 / <u>Authors</u> / Affiliation / <u>COUNTRY</u> |
| 11:00 - 11:20 | keynote Speaker: Adrian ILINCA, Ph.D. - Quebec University Rimousky - CANADA <i>Wind energy industry in Canada – strategies and policies, challenges and opportunities for research and development</i> |
| 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 Rennes1- 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 | <i>Questions / Answers</i> |
| 12:30-14:00 | Lunch Break |
| 14:00 - 15:30 | Plenary session VI. Chair: Mario ELTAHCHI, Ph.D.; Co-chairs: Hassan CHARIF, Ph.D.- Antoine ALEMANY, Ph.D. - Nachida K. MARZOUK, Ph.D. Title / <u>Authors</u> / Affiliation / <u>COUNTRY</u> |
| 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 |

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| 14:30 - 14:40 | P201. Potential of a Hybrid Wind-Diesel-Compressed air system for Nordic Remote Canadian Areas <i>Hussein Ibrahim, M.Dimitrova, Rafic Younès, Adrian Ilinca, Jean Perrond, Murdochville, Québec - CANADA</i> |
| 14:40 - 14:50 | P202. Concentration Heating System with Optical Fiber Supply <i>S. Amara, B. Nordell, B. Benyoucef, A. Benmoussat - Uleå University of Technology (LTU) - SWEDEN</i> |
| 14:50 - 15:00 | P189. Experimental investigation on a double slope solar still with partially cooled condenser in the region of Ouargla (Algeria). <i>zeroual mostefa, Batna University - ALGERIA</i> |
| 15:00 - 15:10 | P31. Numerical Simulation of Solar Absorption Machine <i>Sahar FAYAD, Rafik YOUNES, Said ABBOUDI - Universite de technologie de Belfort Monbeliard FRANCE</i> |
| 15:10 - 15:30 | <i>Questions / Answers</i> |
| 15:30 -16:00 | Coffee Break - Posters Discussions |
| 16:00-17:30 | <u>Plenary session VII</u> Chair: Fouad El Haj HASSAN, Ph.D.; Co-chairs: Louay CHACHATI, Ph.D., Ph.D.-Fouad ELKOURDY, Ph.D.- Ihab Farag, Ph.D. <u>Title / Authors / Affiliation / COUNTRY</u> |
| 16:00 - 16:10 | P178. Photovoltaic Cell-Panel-Array Characterizations and Modelling considering Both Reverse and Direct Modes <i>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</i> |
| 16:10 - 16:20 | P20. Thermo acoustic MHD electrical generator <i>Alemany Antoine, Mohamad ALRADI UMR CNRS-INP Grenoble - FRANCE</i> |
| 16:20 - 16:30 | P188. Optimal study design for Wind farm in Arwad island <i>Rodeyna Amer, Damascus university-SYRIA</i> |
| 16:30 - 16:40 | P102. Effect of the Properties of the Working Fluid on the Efficiency of a Flat Plat Collector <i>Saadi Souad and Chakrer Abla, University Mentouri Constantine - ALGERIA</i> |
| 16:40 - 16:50 | P161. The Living walls as an Approach for a Healthy Urban Environment <i>Samar Sheweka and Nourhan Magdy, The British University in Egypt - EGYPT</i> |
| 17:00 - 17:10 | P29. Towards the Development of Photovoltaic Solar Cells-Case Study CdS-CdTe Thin Films <i>Abdulkader Hariri, Alepo University - SYRIA</i> |
| 17:10 - 17:20 | P170. Fuzzy Logic Control for the tracking of maximum power point of a PV system <i>F.Bouchafa, I.Hamzaoui, A.Hadjammar, University of Sciences and Technology Houari Boumediene, ALGERIA</i> |
| 17:20 - 17:30 | <i>Questions / Answers</i> |
| 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 | |
| 8:30 | Shuttle bus transportation from the hotel to the conference venue |
| 09:00 - 10:30 | <u>CLOSING SESSION</u> |
| 09:00 - 09:30 | Conference highlights (Findings & Recommendations) |
| 09:30 - 10:00 | Award Certificate |
| 10:00 - 10:30 | Conference closing note & future announcements. |
| 10:00 - 16:30 | Guide tour to the city of great antiquity BYBLOS (more information will be provided later) |

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 Bellalb, 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 mahcene, 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** **P100.** *Economic and environmental analysis for grid-connected hybrid photovoltaic-wind power system in the arid region*
koussa djohra Née SAHEB, CDER- **ALGERIA**
- Zone E** **P101.** *Optimization of Greenhouse Climate Model Parameters Using Particle Swarm Optimization and Genetic Algorithms*
Abdelhafid Hasni, Rachid Taibi, Belkacem Draoui & Thierry Boulard, Université de Béchar-INRA- **ALGERIA - FRANCE**
- Zone E** **P103.** *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** **P106.** *Use of fiber Luffa Cylindrica for waters traitement charged in copper.*
Y. LAIDANI; S. HANINI; G. HENINI, Hassiba Ben Bouali University- **ALGERIA**
- Zone E** **P107.** *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.** *Ceating 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. SOUABI, 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. SOUABI; 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 Performace 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, Nouredine Said, Center for Renewable Energy Development - ALGERIA
- Zone G** **P157.** *Investigation of an evaporative air cooler using solar energy under Algerian climate*
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