

The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability

TMREES14 International Conference

10th – 13th, April 2014 | Beirut - Lebanon

Chafic Salame, Michel Aillerie and Panagiotis Papageorgas

The International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability is an annual event organized by the Euro-Mediterranean Institute for Sustainable Development (EUMISD.org).

TMREES14, held in April 10-13, 2014 in Beirut - Lebanon, has a main objective to promote sustainable, healthy and diverse ecosystems; encourage and support the international energy security systems through development of green based and other renewable resources and processes, bringing together participants from international research centers, universities, industry and administrative organizations around the world to exchange innovative and novel ideas, explore enabling technologies, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment.

The TMREES14 international conference has a general philosophy to gather the global research community, discuss, present and to network the latest developments and innovations in sustainability.

The conference Topics Include:

Photovoltaic Solar Energy Advanced Material Studies

Photovoltaic Materials, New Materials, Nanomaterials, new substrates, Nanotechnologies, new Design and Concepts for PV Cells and Modules, Fundamental & Theoretical Material Studies, Modelling & simulation, Liquid Crystals, Semiconductors, Superconductors, III-V & concentrator cells for PV Solar application

Solar Energy New Technologies and Applications

Thin Film solar cells (Silicon, CdTe, CIS). Solar Cells/ Modules/PV-Systems for Space Applications. Organic-based PV, Polymer PV, dye-sensitised cells/modules. PV Systems and components, PV System Reliability and Availability. PV and Architecture, integration in buildings and urban planning. Photochemical Solar Energy Conversion, Photothermal Devices Crystallization, Wafering, advanced production technologies for silicon and wafers. Manufacturing Issues and Processing, waste treatment, safety. Microelectronics for Photovoltaic. Characterization of materials and devices, testing, measurements, quality and aging, reliability aspects. Smart grids / Innovative systems with storage, Power electronics (components and applications), Power Quality issues, Solar panel Optimization techniques.

Renewable Sources of Energy

Wind energy; Offshore wind energy-Potential, challenges and state-of-the-art, Technical developments. **Bioenergy;** Conversion technologies, Operational and logistical challenges, Techno-economic considerations, biomass and waste. **Biofuels;** biorefinery, Thermochemical and Biochemical conversion. Hydropower; Technology, Integrated water and energy management. **Marine;** Salinity difference power source.

Energy management and Sustainable Environmental Development

Energy Engineering for Storage-Saving-Management Technologies, Energy Transmission and Distribution, Production and Efficiency Electricity Networks of the Future, Power and Energy Generation. Hybrid and Integrated Energy System, Power Systems and Automation, Energy Policy, Planning & Management laws. Industrial waste treatment, Air pollution control and equipment, Pollution prevention in industry, Water pollution and treatment. Environmental technologies, Climate Change, emissions and Global Warming, Contribution of technology to sustainability, Sustainable built environment, Ecotoxicity. Sustainable development and planning, Natural resources management, Soil contamination and recovery, Landscape development and management, Green economy, Future Markets, Business Opportunities.

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TMREES14 International Conference
Technologies and Materials for Renewable Energy, Environment and Sustainability
10th – 13th, April 2014 | The Cosmopolitan Hotel, Beirut - Lebanon

Thursday April 10, 2014	08:00 – 9:30	Registration – Welcome Reception
	09:30 – 10:30	Opening Session – Welcome and keynote speech
	10:30 – 11:00	Coffee Break
	11:00 – 12:30	Session One
	12:30 – 14:00	Lunch
	14:00 – 15:30	Session Two
	15:30 – 16:00	Coffee Break - Posters Discussions
	16:00 – 17:30	Session Three
	17:30 – 18:30	Posters Session
Friday April 11, 2014	08:30 – 10:00	Session Four
	10:00 – 10:30	Coffee Break - Posters Discussions
	10:30 – 12:00	Session Five
	12:00 – 13:30	Lunch
	13:30 – 15:00	Session Six
	15:00 – 15:30	Coffee Break - Posters Discussions
	15:30 – 17:00	Posters Session
	20:00	Transportation from the Cosmopolitan hotel to the Gala Dinner
	20:30 – 23:00	Gala Dinner
Saturday April 12, 2014	08:30 – 10:00	Session seven
	10:00 – 10:30	Coffee Break - Posters Discussions
	10:30 – 12:00	Session eight
	12:00 – 13:30	Lunch
	13:30 – 15:00	Session nine
	15:00 – 16:30	Session Ten
	16:30 – 18:30	Conference closing note and Awarding Prizes Brunch
Sunday April 13, 2014	09:30 – 16:00	Guided Tour to Beit-Eddine Castle and Deir el Qamar



Thursday - April 10, 2014

Opening session - 09:30 – 11:00

- Prof. Chafic SALAME : **Welcoming Speech & TMREES14 Technical Program**
Prof. Michel Aillerie : **Environment and Sustainability** (SUPELEC-Lorraine University, France)
Prof. Panagiotis Papageorgas : **Green Mediterranean** (T.E.I. Piraeus, Greece)
Prof. Mounir El Asmar : **Keynote Address** (Arizona State University - United States)

Session One - 11:00 – 12:30

Chairs: Prof. Michel Aillerie; Prof. Panagiotis Papageorgas

- M100413.21 Influence of Dirt Accumulation on Performance of PV Panels
Shaharin A. Sulaiman, Atul Kumar Singh, Mior Maarof Mior Mokhtar and Mohammed Bou-Rabee
Presenter: Mohammed Bou-Rabee --- PAAET --- Kuwait
- M100413.38 Removal of Heavy Metals Using Nanostructured Graphite Oxide, Silica Nanoparticles and Silica/ Graphite Oxide Composite
Imtithal Sheet, Prof. Ahmad Kabbani and Prof. Hanafy Holail
Presenter: Imtithal Sheet --- Beirut Arab University --- Lebanon
- M100413.48 Numerical simulation of the type inversion in n⁺-p-p⁺ Si solar cells, used for space applications, under 1 MeV electron irradiation
Abdelghani Hamache, Nouredine Sengouga and Afak Meftah
Presenter: Nouredine Sengouga --- LMSM, Université de Biskra --- Algeria
- M100413.54 Enhancement efficiency of polymer:Fullerene solar cells by solvent vapor annealing
Abdullah Hussein, Waleed Hussain, Hussein Al-Luaiby, Tamara Basova and Aseel Hassan
Presenter: Abdullah Hussein --- University of Basrah --- Iraq
- M100413.95 Antireflection Coating at Metamaterial Waveguide Structures for Solar Energy Applications
Mohammed Shabat and Muin Ubeid
Presenter: Mohammed Shabat --- Islamic University of Gaza --- Palestinian Territory, Occupied
- M100413.129 Chemical route to synthesis hierarchical ZnO thick films for gas sensor application
Raad Saadon and Osama Abdul Azeez
Presenter: Osama Abdul Aziz --- Al-Must. university --- Iraq
- M100413.136 Individual step-up converter with active recovery stage for high efficiency conversion of photovoltaic energy
Pierre Petit, Michel Aillerie, Jean-Paul Sawicki, The Vinh Nguyen and Jean Pierre Charles
Presenter: Pierre Petit --- Laboratoire LMOPS Université Paul Verlaine --- France

Session Two - 14:00 – 15:30

Chairs: Prof. Hamdy El-Awady; Dr. Pierre petit

- M100413.158 Effects of precursor on structural and optical properties of ZnO nanopowder
Kamel Guergouri, Louiza Arab and Hayet Berkane
Presenter: Kamel Guergouri --- University of Oum El Bouaghi --- Algeria
- M100413.28 Energy and cost analysis of Photo Voltaic Trombe wall system in Tropical climate
Kashif Irshad, Khairul Habib and Nagarajan Thirumalaiswamy
Presenter: Kashif Irshad --- Universiti Teknologi PETRONAS --- Malaysia
- M100413.50 DC power-line communication based network architecture for HVDC distribution of a renewable energy system
Nguyen Vinh, Pierre Petit, Michel Aillerie, Jean-Paul Sawicki and Jean-Pierre Charle
Presenter: Nguyen Vinh --- Lorraine University, LMOPS-EA 4423, 57070 Metz, France --- France

- M100413.51 Dual Loop Control of Fuel Cell Source using Non-isolated IBC-IDDB Converter for Hybrid Vehicle Applications
R. Saadi, M. Bahri, M.Y. Ayad, M. Becherif, O. Kraa and A. Aboubou
Presenter: R. Saadi --- MSE Lab, Biskra University --- Algeria
- M100413.52 Optimal sizing design and energy management of stand-alone photovoltaic/wind generator systems
I. Tegani, A. Aboubou, M.Y. Ayad, M. Becherif, R. Saadi and O. Kraa
Presenter: I. Tegani --- MSE Lab, Biskra University --- Algeria
- M100413.56 Leveraging Module Level Power Electronics (MLPE) Solution to Avoid Negative Impact of Potential Induced Degradation (PID) on Module Performance and Reliability
Faraz Ebneali
Presenter: Faraz Ebneali --- Enphase Energy --- United States
- M100413.59 Fuzzy Logic Maximum Structure and State Feedback Control Strategies of The Electrical Car
O. Kraa, M. Becherif, M.Y. Ayad, R. Saadi, M. Bahri, A. Aboubou and Hatem Ghodbane
Presenter: O. Kraa --- MSE Lab, Biskra University --- Algeria
- M100413.62 States Feedback Control Applied to The Electric Vehicle
O. Kraa, M. Becherif, M.Y. Ayad, R. Saadi, M. Bahri, A. Aboubou and H. Ghodbane
Presenter: O. Kraa --- MSE Lab, Biskra University --- Algeria

Session Three - 16:00 – 17:30

Chairs: Prof. Michel Aillerie; Dr. Lilian Malaeb

- M100413.63 A Novel Adaptive Operation Mode based on Fuzzy Logic Control of Electrical Vehicle
O. Kraa, M. Becherif, M.Y. Ayad, R. Saadi, M. Bahri and A. Aboubou
Presenter: O. Kraa --- MSE Lab, Biskra University --- Algeria
- M100413.75 The effect of solution processing on the power conversion efficiency of P3HT-based organic solar cells
Burak Kadem, Mohammed Al-Hashimi and Aseel Hassan
Presenter: Burak Kadem --- Sheffield Hallam University --- United Kingdom
- M100413.76 Study and analyzes impedance sensor-target in a non destructive testing by eddy current
Bourouina Antar, Herous Lazhar and Tibouche Ammar
Presenter: Bourouina Antar --- university of Jijel --- Algeria
- M100413.85 Wireless Sensor Networking architecture of Polytropon: An open source scalable platform for the smart grid
Panagiotis Papageorgas, Theodora Iliopoulou, Kyriakos Agavanakis, Maria Barbarosou, Kleanthis Prekas, Konstantinos Antonakoglou and Dimitrios Piromalis
Presenter: Panagiotis Papageorgas --- T.E.I. Piraeus --- Greece
- M100413.88 Solar energy integration in urban planning: GUUD model
Miguel Amado and Francesca Poggi
Presenter: Miguel Amado --- CITAD, FCT UNL --- Portugal
- M100413.98 Non linear Flatness Control Applied to Supercapacitors Contribution in Hybrid Power Systems Using Photovoltaic Source and Batteries
M. Benaouadj, A. Aboubou, M.Y. Ayad and M. Becherif
Presenter: A. Aboubou --- MSE Lab, Biskra University --- Algeria
- M100413.99 Studying the Performances of Induction Motor Used in Electric Car
Samih Al Jabi and Zeina Bitar
Presenter: Zeina Bitar --- Damascus University --- Syrian Arab Republic

Friday - April 11, 2014

Session Four - 08:30 – 10:00

Chairs: Prof. Michel Aillerie; Prof. Paulo Brito

- M100413.128 Modeling of the Characteristics of Photovoltaic Sources Feeding a HVDC Bus
Abdallah Zegaoui, Mohamed Kellal and Michel Aillerie
Presenter: Abdallah Zegaoui --- UHBC University --- Algeria
- M100413.133 Modelling and Simulation of Series DC motors used in electric cars
Samih Al Jabi, Zeina Bitar and Imad Khamis
Presenter: Zeina Bitar --- Damascus University --- Syrian Arab Republic
- M100413.138 Impact of the Variability in the Current Density on the Porous Silicon Characteristics
Thaira Z. Al-Tayyar Al-Tayyar and Noor A. Salman
Presenter: Thaira Z. Al-Tayyar Al-Tayyar --- University of Technology UoT --- Iraq
- M100413.179 Defect Structure Analysis And Oxygen Non-stoichiometry Of Al Substituted SrFeO₃-?
Hanane Fodil and Kaouther El Kourd
Presenter: Hanane Fodil --- phd --- Algeria
- M100413.181 Fuzzy Logic and Passivity-Based controller applied to Electric Vehicle using Fuel Cell and Supercapacitors Hybrid Source
M. Mohammedi, O. Kraa, M. Becherif, A. Aboubou, M.Y. Ayad and M. Bahri
Presenter: Mohammedi Messaoud --- MSE Lab, Biskra University --- Algeria
- M100413.182 Experimental Investigation of a Pilot Sloped Solar Updraft Power Plant Prototype Performance Throughout a Year
Shadi Kalash, Wajih Naiemeh and Salman Ajib
Presenter: Shadi Kalash --- Department of Mechanical Engineering, Damascus University, Syria --- Syrian Arab Republic
- M100413.192 A new Model of global solar radiation based on meteorological data in Bejaia City (Algeria)
Ouali Kahina and Rezak Alkama
Presenter: Ouali Kahina --- Université de Béjaia --- Algeria
- M100413.19 Analysis of Lightning-Induced Voltages in Overhead Transmission Lines
Boumaiza Mostefa and Labeled Djamel
Presenter: Boumaiza Mostefa --- university of Constantine 1 --- Algeria

Session Five - 10:30 – 12:00

Chairs: Prof. Lavinia Chiara Tagliabue; Prof. Nouredine Sengouga

- M100413.193 Comparison of perturb & observe and fuzzy logic in maximum power point tracker for PV systems
Hadjer Bounechba, Aissa Bouzid, Khalil Nabti and Hocine Benalla
Presenter: Hadjer Bounechba --- constantine1 university --- Algeria
- M100413.24 Induced lightning disturbances in overhead shielded cables modeling by current generators
Boumaiza Mostefa and Labeled Djamel
Presenter: Boumaiza Mostefa --- university of Constantine 1 --- Algeria
- M100413.198 Improvement of the quality of electrical energy by a photovoltaic generator connected to the network
Sid Ahmed Tadjer, Idir Habi, Becharia N. and Fateh Khelifi
Presenter: Sid Ahmed Tadjer --- University M'Hamed Bougara of Boumerdes --- Algeria
- M100413.206 Smart management system at low cost for hybrid energy micro-grid
Ahmed Derrouazin, Nasreddine Mekakia Maaza, Rachid Taleb, Mahfoud Nacef and Michel Aillerie
Presenter: Ahmed Derrouazin --- GEER - Hassiba ben Bouali of Chlef University --- Algeria

- M100413.214 Are Building Occupants Satisfied with Indoor Environmental Quality of Higher Education Facilities?
Mounir El Asmar, Abbas Chokor and Issam Srouf
Presenter: Mounir El Asmar --- Arizona State University --- United States
- M100413.224 Study of Ni1-xZnxO thin films Grown by spray pyrolysis
Labidi Herissi, Lazhar Hadjeris and Mohammed Salah Aida
Presenter: Labidi Herissi --- Physics Department, Faculty of Sciences, University of Tebessa, 12000, Algeria --- Algeria
- M100413.234 Effects of carbon taxation, DG and electricity storage technologies on a microgrid
Anestis Anastasiadis, George Vokas, Panagiotis Papageorgas and Stamatis Kamas
Presenter: Anestis Anastasiadis --- National Technical University of Athens --- Greece
- M100413.236 Micro-controlled Pulse Width Modulator Inverter for Renewable Energy Generators
Hadj Allouache, Arab Mustapha, Abdallah Zegaoui and Michel Aillerie
Presenter: Hadj Allouache --- GEER - Hassiba ben Bouali of Chlef University, Algeria --- Algeria

Session Six - 13:30 – 13:00

Chairs: Prof. Panagiotis Papageorgas; Prof. Samih Al Jabi

- M100413.10 From Savonius to Bronzinus: a comparison among vertical wind turbines
Giovanni Gerardo Muscolo and Rezia Molfino
Presenter: Giovanni Gerardo Muscolo --- University of Genova --- Italy
- M100413.12 DESIGN CONSIDERATIONS OF MICRO-HYDRO-ELECTRIC POWER PLANT
Bilal Nasir
Presenter: Bilal Nasir --- Hawijah Technical Institute --- Iraq
- M100413.22 Influence of inoculums/substrate ratios (ISRs) on the mesophilic anaerobic digestion of slaughterhouse waste in batch mode: Process stability and biogas production
Slimane Kalloum, Fathya Salem, Assia Kouki and Hamza Mokaddem
Presenter: Slimane Kalloum --- Unité de recherché en Energies Renouvelables en Milieu Saharien , URERMS, Centre de Développement des Energies Renouvelables, CDER, 01000, Adrar, Algeria --- Algeria
- M100413.35 Analysis of an Autonomous Wind Induction Generator Supplying an Isolated Variable Load through a Controlled Rectifier
Imadouchene Malika, Nesba Ali and Mekhtoub Said
Presenter: Imadouchene Malika --- université UMM Tizi ousou --- Algeria
- M100413.72 Renewable Energy Sources of Turkey and Assessment of Sustainability
Ayşenur Erdil, Mehtap Erdil and Hikmet Erbyık
Presenter: Hikmet Erbyık --- Yalova University --- Turkey
- M100413.74 Recent Developments of Proton Exchange Membrane Fuel Cell (PEMFC)
Mohammed Jourdani, Hamid Mounir and Abdellatif El Marjani
Presenter: Mohammed Jourdani --- Ecole Mohammadia d'Ingénieur, Université Mohamed V --- Morocco
- M100413.91 Palm grove as an Energetic tool of Sustainable Urban Design in SAHARAN Cities - Case of Study RIGH Valley in Algerian Desert
Ahriz Atef, Fezzai Soufiane and Zemmouri Nouredine
Presenter: Ahriz Atef --- university of tebessa --- Algeria

Saturday - April 12, 2014

Session Seven - 08:30 – 10:00

Chairs: Prof. Giovanni Gerardo Muscolo; Prof. Michel Aillerie

- M100413.93 Numerical Simulation and Experimental Validation of Integrated Solar Combined Power Plant
Adel Abdel Dayem, Mohamed Metwally, Abdulmajeed Alghamdi and Elsayed Marzouk
Presenter: Mohamed Metwally --- Umm Al-Qura University --- Saudi Arabia
- M100413.105 Multiobjective Optimization of Renewable Energy Penetration Rate in Power Systems
Hasnae Bilil, Ghassane Aniba and Mohamed Maaroufi
Presenter: Hasnae Bilil --- Ecole Mohammadia d'Ingenieurs - Mohammed V University, Agdal --- Morocco
- M100413.123 Morinda lucida effects on steel-reinforced concrete in 3.5% NaCl: Implications for corrosion-protection of wind-energy structures in saline/marine environments
Joshua Okeniyi, Cleophas Loto and Abimbola Popoola
Presenter: Joshua Okeniyi --- Covenant University, Ota, Nigeria --- Nigeria
- M100413.124 Rhizophora mangle L. effects on steel-reinforced concrete in 0.5 M H₂SO₄: Implications for corrosion-degradation of wind-energy structures in industrial environments
Joshua Okeniyi, Cleophas Loto and Abimbola Popoola
Presenter: Joshua Okeniyi --- Covenant University, Ota, Nigeria --- Nigeria
- M100413.143 Experimental Investigation of an integrated Solar Green House for Water Desalination, Plantation and Wastewater Treatment in Remote Arid Egyptian Communities
M.Hamdy El-Awady, Hamdy El-Ghetany and Mohamed Abdel Latif
Presenter: M.Hamdy El-Awady --- National Research Centre --- Egypt
- M100413.167 Interconnection of a Wind Driven Induction Machine with the Power Utilities: A Simulation Study
Maamar Taleb
Presenter: Maamar Taleb --- University of Bahrain --- Bahrain
- M100413.171 Evaluation of the diffuse fraction of the global solar horizontal radiation of Algerian sites.
Madjid Chikh, Achour Mahrane and Mourad Haddadi
Presenter: Madjid Chikh --- UDES --- Algeria

Session Eight - 10:30 – 12:00

Chairs: Prof. Lavinia Chiara Tagliabue; Prof. Mohamed Metwally

- M100413.175 Technical and Cost-Optimal Evaluation of Thermal Plants for Energy Retrofitting of a Residential Building
Lavinia Chiara Tagliabue, Mario Maistrello and Moreno Fattor
Presenter: Lavinia Chiara Tagliabue --- Politecnico di Milano --- Italy
- M100413.188 Quantitative and Financial Impacts of Nile River Inflow Reduction on Hydropower and Irrigation in Egypt
Nadia Eshra, Medhat Aziz and Assmaa Agrama
Presenter: Nadia Eshra --- Nile Research Institute (NRI) --- Egypt
- M100413.210 Assessing the power generation solution by thermal-chemical conversion of meat processing industry waste
Cosmin Marculescu
Presenter: Cosmin Marculescu --- Polytechnic University Bucharest --- Romania
- M100413.219 Generation of Energy from Municipal Waste: A Case Study In Turkey
Aysenur Erdil and Hikmet Erbiyik
Presenter: Hikmet Erbiyik --- Yalova University --- Turkey
- M100413.223 Probabilistic Economic Emission Dispatch Optimization of Multi-Sources Power System
Hasnae Bilil, Ghassane Aniba and Mohamed Maaroufi
Presenter: Hasnae Bilil --- Engineering Mohammadia School - Mohammed V University, Agdal --- Morocco

- M100413.226 Entropy Generation due to Viscous Dissipation around a Wells Turbine Blade: A Preliminary Numerical Study
Ahmed S. Shehata, Khalid M. Saqr, Mohamed Shehadeh, Qing Xiao and Sandy Day
Presenter: Ahmed S. Shehata --- University of Strathclyde, Glasgow, UK --- United Kingdom
- M100413.15 Performance of an Interconnected Hybrid Wind-Solar-Power Utilities Energy System
Maamar Taleb
Presenter: Maamar Taleb --- University of Bahrain --- Bahrain

Session Nine - 13:30 – 15:00

Chairs: Prof. Mounir Asmar; Prof. Giovanni Gerardo Muscolo

- M100413.29 Scattering Effects in Laser Attenuation System for Measurement of Droplet Number Density
Shaharin A. Sulaiman, Ahmed Khafidzin Amin Ahmed Ismail and Muhammad Noor Fadhli Noor Azman
Presenter: Mohammed Bou-Rabee --- Universiti Teknologi Petronas --- Malaysia
- M100413.36 Heavy Metals Removal Using Activated Carbon, Silica and Silica Activated Carbon Composite
Mona Karnib, Ahmad Kabbani, Hanafy Holail and Zakia Olama
Presenter: Mona Karnib --- Beirut Arab University --- Lebanon
- M100413.66 Treatment of Wastewater in Fluidized Bed Bioreactor Using Low Density Biosupport
Haribabu Krishnan and Sivasubramanian V
Presenter: Haribabu Krishnan --- National Institute of Technology Calicut --- India
- M100413.100 A multi-objective optimization framework for green industries
Chao Gu, Adnan Yassine, Sébastien Leveneur and Estel Lionel
Presenter: Chao Gu --- Université du Havre --- France
- M100413.104 Influence of natural fractures on oil production of unconventional reservoirs
Khelifa Cherif, Zeddouri Aziez and Djabes Fayçal
Presenter: Zeddouri Aziez --- Université Kasdi Merbah Ouargla --- Algeria
- M100413.119 The Effect of Cover Geometry on the Productivity of a Modified Solar Still Desalination Unit
Lilian Malaeb, George M. Ayoub and Mahmoud Al-Hindi
Presenter: Lilian Malaeb --- King Abdullah University of Science and Technology --- Saudi Arabia
- M100413.122 STES—typical scenarios for heat accumulator cooperation
Jaroslaw Milewski and Wojciech Bujalski
Presenter: Jaroslaw Milewski --- Warsaw University of Technology --- Poland

Session Ten - 15:00 – 16:30

Chairs: Prof. Chafic SALAME; Prof. Hamdy El-Awady

- M100413.161 Study the performance of a rural electrification based on mini-grid hybrid systems of electricity generation
Bendaoud Bencherki, Hamidat Abderrahman and Loukarfi Larbi
Presenter: Bendaoud Bencherki --- UHB Chlef --- Algeria
- M100413.170 An Analytical Model for Mathematical Analysis of Smart Daily Energy Management for Air to Water Heat Pumps
Seyed Tabatabaei, Dilhan Thilakarathne and Jan Treur
Presenter: Seyed Tabatabaei --- Agent Systems Research Group, VU University Amsterdam --- Netherlands
- M100413.200 Technico-economic assessment of hybrid Diesel-photovoltaic power plant in the south of ALGERIA
Kadri Ahmed Yacine and Hamidat Abderrahmane
Presenter: Kadri Ahmed Yacine --- Faculté des Hydrocarbures, des Energies Renouvelables, des Sciences de la Terre et de l'Univers.université kasdi Merbah Ouargla --- Algeria
- M100413.269 Impact of temperature on power recovery in osmotic power production by pressure retarded osmosis
Khaled Touati, Fernando Tadeo and Thomas Schiestel
Presenter: Khaled Touati --- University of Valladolid --- Spain

- M100413.250 Comparative study between solar and conventional heating - Economic study and environmental impact
Sahnoune Fatiha, Mohamed Madani, Mimoune Zelmat and Maiouf Belhamel
Presenter: Sahnoune Fatiha --- CDER --- Algeria
- M100413.262 Simulation of Hybrid Photovoltaic/Thermal Air Systems on Building Facades
Nikolaos Theodoropoulos and Georgios Vokas
Presenter: Nikolaos Theodoropoulos --- University of Patras --- Greece

16:30 – 18:30 Conference closing note and Awarding Prizes

Brunch

Sunday - April 13, 2014

09:30 – 16:00 Guided Tour to [Beit-Eddine Castle](#) and [Deir el Qamar](#)

Posters Sessions:

- M100413.14 Investigation of the monocrystalline silicon solar cell physical behavior by AC Impedance Spectra
Khalaf Al Abdullah, Chafic Salame and Faisal Al Alloush
Presenter: Khalaf Al Abdullah --- University of Aleppo --- Syrian Arab Republic
- M100413.37 Sintering and properties of Pb_{0.98}Ca_{0.02} [(Zr_{0.52}Ti_{0.48})_{0.98}(Cr_{3+0.5}, Ta_{5+0.5})_{0.02}] O₃ ferroelectric ceramics doped with P₂O₅
Louanes Hamzioui, Fares Kahoul and Ahmed Boutarfaia
Presenter: Louanes Hamzioui --- Université de Ouargla --- Algeria
- M100413.41 poly(o-toluidine) doped with para- toluene sulphonic acid/n-type silicon heterojunction solar cells
Kareema Ziadan, Hussein And Hussein, Aseel Hassan and Kaled Ajel
Presenter: Kareema Ziadan --- 1Department of physics College of Science University of Basrah --- Iraq
- M100413.87 For a sustainable urban design based on buildings energy balance
Fezzai Soufiane and Ahriz Atef
Presenter: Fezzai Soufiane --- university of tebessa --- Algeria
- M100413.97 Contribution on buildings design with low consumption of energy incorporated PCMs
Rebha Ghedamsi, Noureddine Settou, Nadia Saifi and Boubekeur Dokkar
Presenter: Nadia Saifi --- Université Kasdi Merbah Ouargla, 30 000 Ouargla, Algérie --- Algeria
- M100413.144 Effect of the substrate temperatures on the structural and optical properties of ZnO thin films with Na dopants
Suha Najim
Presenter: Suha Najim --- Mosul University- college of science --- Iraq
- M100413.177 Influence of the thickness on optical properties of sprayed ZnO hole-blocking layers dedicated to inverted organic solar cells
Asma Bedia, Fatima Zohra Bedia, Michel Aillerie, Nabila Maloufi and Boumediene Benyoucef
Presenter: Asma Bedia --- Abou-BakrBelkaid University, URMER, Tlemcen Algeria --- Algeria
- M100413.183 Influence of temperature change on column Buckling of Double walled Carbon Nanotubes Using Different Theories
Amara Khaled, Youb Okacha, Bouazza Mokhtar, Tounsi Abdelwahed and Adda Bedia El Abbas
Presenter: Amara Khaled --- UNIVERSITY CENTRE OF AIN TEMOUCHENT --- Algeria
- M100413.222 Stiffness degradation in hygrothermal aged cross ply laminate
Amara Khaled, Alex Li, Antar Kamel and Brahimi Abdelghani
Presenter: Antar Kamel --- UNIVERSITY OF SIDI BEL ABBES --- Algeria
- M100413.232 Enhanced efficiency by the effect of strain on the structure of a solar cell
Abdelkader Aissat, Rachid Bestam, Jean Pierre Vilcot and Moussa El Bey
Presenter: Abdelkader Aissat --- Université de Blida --- Algeria
- M100413.108 Pulse electrodeposition of ZnO for thin absorber solar cells
Lahoucine Atourki, Khalid Bouabid, Elhassane Ihalane, Lahbib Alahyane, Hassan Kirou, Ahmed Ihlal, Abdesalam Elfanaoui and Larbi Laanab
Presenter: Lahoucine Atourki --- Materials and Renewable Energies Laboratory, Faculty of Sciences, Ibn Zohr University, Agadir, Morocco --- Morocco
- M100413.32 The influence of Zr/Ti content on the morphotropic phase boundary and on the properties of PZT-SFN piezoelectric ceramics
Fares Kahoul, Louanes Hamzioui and Ahmed Boutarfaia
Presenter: Fares Kahoul --- Université de Ouargla and Université de Biskra --- Algeria
- M100413.7 Effect of secondary annealing on electrical properties of polycrystalline silicon
Beddiat Zaidi
Presenter: Beddiat Zaidi --- LSC univ annaba --- Algeria

- M100413.49 Optimization of CdS/CdTe Thin Film Solar Cell Efficiency
Nawfal Jamil
Presenter: Nawfal Jamil --- plymouth university --- United Kingdom
- M100413.64 Energy performance simulations of a grid-connected PV system supplying a residential house in the north-western of Algeria
Mohammed Missoum, Abderrahmane Hamidat and Larbi Loukarfi
Presenter: Mohammed Missoum --- Université Hassiba Benbouali Chlef Algérie --- Algeria
- M100413.67 A Review of Sloped Solar Updraft Power Technology
Shadi Kalash, Wajih Naiemeh and Salman Ajib
Presenter: Shadi Kalash --- Department of Mechanical Engineering, Damascus University, Syria --- Syrian Arab Republic
- M100413.70 Radiation phenomena in electrodes/electrolyte interface of solid oxide fuel cells
Hocine Mahcene, Nedjma Meddour, Djamel Bechki, Hamza Bouguettaia and Hocine Ben Moussa
Presenter: Hocine Mahcene --- Unversity --- Algeria
- M100413.81 Physico-chemical Characterization of Industrial Effluents From The Town of Ouargla (South East Algeria)
Messrouk Houria, Hadj Mahammed Mahfoud, Touil Youcef and Amrane Abdeltif
Presenter: Touil Youcef --- university of Ouargla --- Algeria
- M100413.83 Improved performance of solar installations absorption refrigeration
Benramdane Mohammed, Ghernaouet Mea and Abboudi Said
Presenter: Benramdane Mohammed --- Université de Tlemcen --- Algeria
- M100413.89 Effect Of The Sunflower Oil On The Mechanical Permanence And The Thermal Properties Of Poly (Vinyl Chloride).
Azeddine Rouane and Mohamed Tahar Benaniba
Presenter: Azeddine Rouane --- universite of ouargla --- Algeria
- M100413.94 PHOTOVOLTAIC ASSISTED FUEL CELL POWER SYSTEMS
Ahmed Djafour, Mohamed Salah Aida and Boubakeur Azoui
Presenter: Ahmed Djafour --- Université Kasdi Merbah --- Algeria
- M100413.101 LabVIEW interface for controlling a test bench for photovoltaic modules and extraction of various parameters
Abderrezak Guenounou, Ali Malek, Achour Mahrane and Ahcene Triki
Presenter: Ali Malek--- Unité de Développement des Equipements Solaires (UDES), Abou Bekr Belkaid University of Tlemcen --- Algeria
- M100413.109 Modeling & control of simple photovoltaic pumping system
Mehdi Ouada, Mohamed Salah Meridjet and Marwen Saad Saoud
Presenter: Mehdi Ouada --- Badji Mokhtar annaba university --- Algeria
- M100413.112 Advanced Fuzzy MPPT Controller for a stand-alone PV system
Boualem Bendib, Fateh Krim, Hocine Belmili, M.Fayçal Almi and Boulouma Sabri
Presenter: Boualem Bendib --- UDES --- Algeria
- M100413.115 Design optimization of photovoltaic powered water pumping systems for a remote area in Algeria
Louai Nabila
Presenter: Louai Nabila --- university Batna --- Algeria
- M100413.135 Biological filtration on sand of dunes – Filters fouling
Youcef Touil, Yamina Gherairi, Rachid Issaadi and Abdeltif Amrane
Presenter: Youcef Touil --- university of ouargla --- Algeria

- M100413.141 Design and Implementation of Sliding Mode and PI Controllers based Control for Three Phase Shunt Active Power Filter
Benchouia Mohamed Toufik
Presenter: Benchouia Mohamed --- Biskra University, 1Laboratory LGEB Department of Electrical Engineering --- Algeria
- M100413.145 Three-Phase For-Wire Shunt Active Filter With Unbalanced loads
T. MAHNI, M.T Benchouia, k. Srairi, A.Ghamri A.Golea ,
Presenter: Kamel Srairi --- Biskra University, Laboratory LGEB Department of Electrical Engineering --- Algeria
- M100413.154 Efficiency of PV module under real working conditions
Soualmi Hamou and Saadi Zine
Presenter: Soualmi Hamou --- URERMS --- Algeria
- M100413.168 Feasibility study and electric power flow of grid connected photovoltaic dairy farm in Mitidja (Algeria)
Tarek Nacer, Abderrahmane Hamidat and Omar Nadjemi
Presenter: Tarek Nacer --- Saad Dahlab University, Blida1 --- Algeria
- M100413.180 Optimisation of a Solar Tracker System for Photovoltaic Power Plants in Saharian region, Example of Ouargla
Bouziane Khadidja, Korichi Dris and Azoui Boubakeur
Presenter: Bouziane Khadidja --- Ouargla university --- Algeria
- M100413.187 Measurement of the steam produced by a cylindrical receiver of a solar concentrator dish
Khalled Mahdi and Nadir Bellel
Presenter: Nadir Bellel --- Université Constantine 1 --- Algeria
- M100413.33 Dynamic Response of a Stand Alone DC Side Wind Energy Conversion System with Battery Energy Storage
Fouzia Brihmat and Said Mekhtoub
Presenter: Fouzia Brihmat --- Ecole nationale Polytechniques --- Algeria
- M100413.58 Opportunities and Challenges for Bioelectricity in Rural China
Xiaoping Jia, Gan Xin, Fang Wang and Zhiwei Li
Presenter: Xiaoping Jia --- School of Environment and Safety Engineering, Qingdao University of Science and Technology --- China
- M100413.79 Modeling Peaks Over A Threshold Using R (Case Wadis Soubella, Algeria)
Fares Belagoune, Djamel Boutoutaou and Kamel Rahmani
Presenter: Fares Belagoune --- université --- Algeria
- M100413.80 Performance Analysis of a 3D Axisymmetric Oscillating Water Column
Zaoui Lamine, Bouali Belkacem, Larbi Salah and Benchatti Ahmed
Presenter: Zaoui Lamine --- Université de Laghouat --- Algeria
- M100413.84 A technical, economic and environmental analysis of combining geothermal energy with carbon sequestration for hydrogen production
Soumia Rahmouni, Noureddine Settou, Nasreddine Chennouf and Belkhir Negrou
Presenter: Nasreddine Chennouf --- Kasdi Merbah University --- Algeria
- M100413.102 Biogas production from waste activated sludge using cattle dung inoculums: Effect of total solid contents and kinetics study
Maamri Sarra and Amrani Moussa
Presenter: Maamri Sarra --- university bumerdes --- Algeria
- M100413.107 Experimental determination of the kinetics of drying solar of strawberry in Sahara Of Adrar - Algeria
Manaa Saadeddine, Younsi Maammar and Moummi Noureddine
Presenter: Manaa Saadeddine --- université d'adrar --- Algeria

- M100413.114 Chemical activation of an Activated carbon Prepared from coffee residue.
Mohamed Lamine Sekirifa, Cherraye Ridha, Lotfi Baameur, Mouad Chenine, Mahfoud Hadj-Mahammed and Ammar H. Al-Dujaili
Presenter: Mohamed Lamine Sekirifa --- universit  kasdi Merbah --- Algeria
- M100413.116 Anticorrosive action of Retama retam extracts on mild steel X 52 in 20 % H2SO4 Solution
Abd-El-Kader Benmenine, Sekirifa Mohamed Lamine, Noureddine Gherraf, Mohamed Rida Ouahrani and Lotfi Baameur
Presenter: Abd-El-Kader Benmenine --- universit  kasdi Merbah --- Algeria
- M100413.130 Decrease of Energy Consumption in the Case of Water Oxygenation Processes
Mihaela Vlasceanu, Nicolae Baran and Mihai Baran
Presenter: Nicolae Baran --- Politehnica University of Bucharest --- Romania
- M100413.142 Energy performance analysis of a solar combisystem attached to a rural house in Chlef (north-western of Algeria)
Mohammed Missoum, Abderrahmane Hamidat and Larbi Loukarfi
Presenter: Mohammed Missoum --- Universit  Hassiba Benbouali Chlef Alg rie --- Algeria
- M100413.146 Energy policy in the context of sustainable development: Case of Morocco and Algeria
Anissa Ghezloun, Ali Saidane and Nassima Oucher
Presenter: Anissa Ghezloun --- CDER --- Algeria
- M100413.148 Effect of triangular solid inserts on optimization of conjugate natural convection in complex cavity
Abidi Saad Aissa, Kadja Mahfoud and Rezaiguia Issam
Presenter: Abidi Saad Aissa --- UNIVERSITY KASDI MERBAH, OUARGLA --- Algeria
- M100413.151 Experimental and Economic Evaluation Performance of an Absorption Refrigeration System (LiBr/H2O)
Chougui Mohamed Lamine and Zid Said
Presenter: Chougui Mohamed Lamine --- Laboratory of g nie climatique, university of Constantine, 25000 Constantine, Algeria --- Algeria
- M100413.152 Contribution for amelioration on the treatment schema applied at deoiling station in Haoud Berkaoui HBK center.
Chaich Zineb and Chaouch Nora
Presenter: Chaich Zineb --- Kasdi Merbah University --- Algeria
- M100413.156 Study of Mineral and Organic pollution of the unsaturated zone (UZ) of the cup Ouargla, Southeast Algerian.
Chaouki Mourad, Hadjsaid Samia, Zeddouri Aziez and Siboukeur Hicham
Presenter: Zeddouri Aziez --- Universit  Kasdi Merbah Ouargla --- Algeria
- M100413.157 Contribution to the improvement of production techniques of algal biomass and operating renewable biofuel
Souad Zighmi, Mohamed Bilal Goudjil, Salah Eddine Bencheikh, Segni Ladjel and Djamel Zerrouki
Presenter: Souad Zighmi --- University kasdi Merbah Ouargla --- Algeria
- M100413.191 Short-term scheduling of hydroelectric power systems
Belkacem Bensalem, Mohamed Salah Benbouza, Ahmed Bensalem, Khaled Guergazi and Abdelmalik Bouhental
Presenter: Belkacem Bensalem --- University of Batna --- Algeria
- M100413.194 CFD Techniques Applied to the Wind Power Assessment in the Building Vicinity
Hafida Daaou Nedjari, Mohamed Saighi and Ouahiba Guerri
Presenter: Hafida Daaou Nedjari --- CDER --- Algeria
- M100413.199 Production of Hydrogen and Methane from Banana Peel by Two Phase Anaerobic Fermentation
Nipon Pisutpaisal
Presenter: Nipon Pisutpaisal --- King Mongkut's University of Technology North Bangkok --- Thailand

- M100413.201 Development of Rapid Chemical Oxygen Demand Analysis using Ozone as Oxidizing Agent
Nipon Pisutpaisal
Presenter: Nipon Pisutpaisal --- King Mongkut's University of Technology North Bangkok --- Thailand
- M100413.203 Biological Hydrogen and Methane Production in from Food Waste in Two-stage CSTR
Nipon Pisutpaisal
Presenter: Nipon Pisutpaisal --- King Mongkut's University of Technology North Bangkok --- Thailand
- M100413.204 Improvement of Mesophilic Biohydrogen Production from Palm Oil Mill Effluent Using Ozonation Process
Nipon Pisutpaisal
Presenter: Nipon Pisutpaisal --- King Mongkut's University of Technology North Bangkok --- Thailand
- M100413.213 Numerical Study of Heat Transfer in PEN-SOFC: Radiation Effect
Abdessemmed Soumia, Zitouni Bariza and Ben Moussa Hocine
Presenter: Abdessemmed Soumia --- 1 Laboratory of Industrial Energy Systems (LESEI), Department of Mechanics, Faculty of Engineering Sciences, University of Hadj Lakhdar, 05000 Batna, Algeria --- Algeria
- M100413.220 Technical and economic analysis of a wind power generation system for rural electrification in subequatorial area of Africa
Bachirou Bogno, Mohammadou Sali and Michel Aillerie
Presenter: Bachirou Bogno --- University of Maroua --- Cameroon
- M100413.221 Feasibility of Biomethane Production from Banana Peel
Nipon Pisutpaisal
Presenter: Nipon Pisutpaisal --- King Mongkut's University of Technology North Bangkok --- Thailand
- M100413.225 Performance evaluation of hybrid Photovoltaic-Wind power systems
Rachid Maouedj, Abdelkarime Mammeri, Mohammed Draou and Boumedine Benyoucef
Presenter: Rachid Maouedj --- Unité de Recherche en Energies renouvelables en Milieu Saharien, UERMS, Centre de Développement des Energies Renouvelables, CDER, 01000, Adrar, Algeria. --- Algeria
- M100413.228 Climate Change and Agriculture Conservation in Semi-Arid Environment
Benniou Ramdane and Bahlouli Fayçal
Presenter: Benniou Ramdane --- University of Msila --- Algeria
- M100413.4 THE ENERGY BALANCE BEHAVIOR IN OPEN STREET. CASE STUDY CITY OF BISKRA, ALGERIA. Boukhabla Moufida, Alkama Djamel and Bouzaher Soumia
Presenter: Alkama Djamel --- LACOMOFA laboratory departement of architecture Biskra university --- Algeria
- M100413.6 Instability and interaction of the tourbillonner macrostructure with the boundary layer in a cavity differentially heated
Taloub Djedid and Beghidja Abdelhadi
Presenter: Taloub Djedid --- M'sila university --- Algeria
- M100413.20 Spatiotemporal analysis of precipitation in Northern Central Algeria
Houari Zeggane and Djamel Boutoutaou
Presenter: Houari Zeggane --- University Kasdi-Merbah Ouargla --- Algeria
- M100413.27 Active Power Filter Based Three-level PWM Inverter using ant colony algorithm control for Damping of Harmonics Propagation in Network System
Berbaoui Brahim, Hadidi Abdelkader and Hammouda Messoud
Presenter: Hadidi Abdelkader --- Département hydraulique université de Tlemcen --- Algeria
- M100413.34 Energy analysis of single effect absorption chiller (LiBr/H₂O) in an industrial manufacturing of detergent
Chougui Mohmed Lamine and Said Zid
Presenter: Chougui Mohmed Lamine --- Laboratory of génie climatique, university of Constantine --- Algeria

- M100413.68 Analysis of a solar concentration system for hydrogen production case of Chlef district (Algeria)
Rahmani Djelloul, Khellaf Abdallah and Loukarfi Larbi
Presenter: Rahmani Djelloul --- hassiba benbouali university of chlef --- Algeria
- M100413.125 Fuel cell system in cars: Influence of Membrane thickness on power fuel cell system
Zitouni Hadda Hadda, Brioua Mourad and Zitouni Bariza
Presenter: Brioua Mourad --- university Batna --- Algeria
- M100413.139 Optimization of Energy Consumption in Cold Chambers in the Dairy Industry
Paulo Brito
Presenter: Paulo Brito --- Instituto Politécnico de Portalegre --- Portugal
- M100413.155 Treatment heterogeneous photocatalysis; Factors influencing the photocatalytic degradation by TiO₂
Mokhbi Yasmina, Korichi Mourad, Sidrouhou Hadj Mohammed and Chaouche Khaoula
Presenter: Sidrouhou Hadj Mohammed --- Université Kasdi Merbah --- Algeria
- M100413.174 The risks of shale gas development to the water resources
Sarra Robei and Azeiz Zeddouri
Presenter: Sarra Robei --- ,University of Kasdi Merbah Ouargla --- Algeria
- M100413.185 Extraction of naphthalene from an organic phase with the mixture DMSO-methanol-phenol in batch mode.
Application of a composite centered design (CCD)
Bendebane Farida, Ismail Fadhel and Bouziane Lamya
Presenter: Bendebane Farida --- university of Annaba --- Algeria
- M100413.195 Mobility of chromium and tin associated with geochemical dynamics in groundwater in Meboudja plain
Nabil Bougherira and Azzedine Hani
Presenter: Nabil Bougherira --- Water Resources and Sustainable Development Laboratory, Dep. Geology.
University of Annaba, BP 12, 23000 Annaba, Algeria" --- Algeria
- M100413.196 Impact of the urban and industrial waste water on surface and groundwater in the region of Annaba (Algeria)
Nabil Bougherira and Azzedine Hani
Presenter: Nabil Bougherira --- Water Resources and Sustainable Development Laboratory, Dep. Geology.
University of Annaba, BP 12, 23000 Annaba, Algeria --- Algeria
- M100413.211 Soft-switching inverter-fed single-phase collector motor drive
Dimitar Spirov and Milko Dochev
Presenter: Milko Dochev --- Technical University --- Bulgaria
- M100413.212 Comparative Study on efficiency energy of two apartments located in Bechar (Algeria)
Benoudjafer Ibtissam, Ghomari Fouad, Benoudjafer Imane and Mokhtari Abderrahmane
Presenter: Benoudjafer Ibtissam --- bechar --- Algeria
- M100413.218 CFD based analysis of heat transfer enhancement in solar air heater provided with transverse rectangular ribs
Amel Boulemtafes-Boukadoum and Ahmed Benzaoui
Presenter: Amel Boulemtafes-Boukadoum --- C.D.E.R --- Algeria
- M100413.240 Experimental study of the concrete mass transfer subjected to service high-temperatures.
Benoudjafer Imane, Labbaci Boudjemaa and Benoudjafer Ibtissam
Presenter: Benoudjafer Imane --- bechar --- Algeria
- M100413.189 Municipal waste management in the Algerian High Plateaus
Okkacha Youb, Abderrahmane Youb and Hassiba Bouabdessalam
Presenter: Okkacha Youb --- ENSET ORAN --- Algeria
- M100413.251 Influence of Al-doped ZnO transparent contacts deposited by a spray pyrolysis technique on performance of HIT solar cells
Fatima Zohra Bedia, Asma Bedia, Michel Aillerie, Frederic Genty and Boumediene Benyoucef
Presenter: Fatima Zohra Bedia --- Abou-Bekr-Belkaid-University --- Algeria

- M100413.252 Porous silicon/PECVD SiO_x and SiN_x: H structures formed on the P+ substrate for thin silicon solar cell
Louardi Remache, Tetyana Nychporuk, Erwann Fourmond, Abdelhakim Mahdjoub and Mustapha Lemiti
Presenter: Louardi Remache --- Université Larbi Ben Mhidi --- Algeria
- M100413.254 Adsorption of Congo Red Dye from Aqueous Solutions Using Roots of Eichhornia crassipes: Kinetic and Equilibrium Studies.
Wycliffe Chisutia Wanyonyi, John Mmari Onyari and Paul Mwanza Shiundu
Presenter: Wycliffe Chisutia Wanyonyi --- University of Nairobi --- Kenya
- M100413.257 Opportunity of power electronics on improving the quality of voltage and power flow in the west Algeria network
Hocine Guentri, Mohammed Laouer and Fatiha Lakdja
Presenter: Mohammed Laouer --- Univerité Dr Moulay Tahar Saida --- Algeria
- M100413.258 STATCOM and Capacitor Banks in a fixed-speed wind farm
Ali Mekkaoui, Mohammed Laouer and Mimoun Younes
Presenter: Mohammed Laouer --- University of Saida --- Algeria
- M100413.259 A New Approach ACO for Solving the Compromise Economic and Emission with the Wind Energy
Fouad Khodja, Mimoun Younes and Mohammed Laouer
Presenter: Mimoun Younes --- UDL sidi bel abbes --- Algeria
- M100413.260 Hydrooligomerization of Acetylene from Electrocracking Gas over Ni/CNFs Catalyst
Ali Ismail
Presenter: Ali Ismail --- University of Al Anbar --- Iraq
- M100413.261 Valorization study of treated Deglet-Nour dates by solar drying using three different solar driers
Samira Chouicha and Abdelghani Boukri
Presenter: Samira Chouicha --- university kasdi merbeh ouargla --- Algeria
- M100413.263 Qualitative approach of high energy geothermal sources.
Dounia Nechem, Nabil Bougherira and Mani Hannouche
Presenter: Dounia Nechem --- University of Annaba --- Algeria
- M100413.264 Solving Economic Dispatch Problem Using Hybrid GA-MGA and Wind Power
Riad Lakhdar Kherfane, Mimoun Younes, Naas Kherfane and Fouad Khodja
Presenter: Mimoun Younes --- UDL sidi bel abbes --- Algeria
- M100413.265 Influence of the degasification by ejector on the improvement of the expansion and efficiency of a Thermal power station
Malek Hamzaoui
Presenter: Malek Hamzaoui --- university of tizi ouzou --- Algeria
- M100413.266 Characterization of the PCDD/F in the Province of Trento
Marco Ragazzi, Elena Cristina Rada, Marianna Marconi, Alessandro Chistè, Silvio S. Fedrizzi, Giovanni Segatta, Marco Schiavon and Gabriela Ionescu
Presenter: Elena Cristina Rada --- University of Trento --- Italy
- M100413.267 Sustainable solid waste management in the city of Mecheria (western Algeria)
Youb Abderrahmane, Youb Okkacha and Bouabdessalam Hassiba
Presenter: Youb Abderrahmane --- ENSET-Oran-Algerie --- Algeria
- M100413.270 Economic and Emission Dispatch with renewable energy using HSA
Naas Kherfane, Riad Lakhdar Kherfane, Mimoun Younes and Fouad Khodja
Presenter: Mimoun Younes --- UDL sid bel abbes --- Algeria
- M100413.271 Design Considerations for a Solar Micro Power Generator
Mazhar Tayel and Yahya Elsayed
Presenter: Mazhar Tayel --- Alexandria University --- Egypt

- M100413.272 A Novel Modulation Method For Multilevel matrix converter
Abdelkader Djahbar, Bouhani Benziane and Abdellah Zegaoui
Presenter: Abdelkader Djahbar --- University of Chlef --- Algeria
- M100413.273 Variable structure control of a doubly fed induction generator for wind energy conversion systems
Elhadj Bounadja, Abdelkader Djahbar and Zinelaabidine Boudjema
Presenter: Elhadj Bounadja --- Ecole nationale polytechnique d'Alger --- Algeria
- M100413.274 Evaluation of the antimethanogenic activity of some plants containing secondary metabolites, by the in vitro approach
Moufida Rira, Amira Chentli, Lyès Bouazza and Hacène Bousseboua
Presenter: Hacène Bousseboua --- Ecole Nationale Supérieure des Biotechnologies --- Algeria
- M100413.275 Removal of AY99 from an aqueous solution using an emulsified liquid membrane. Application of Plackett-Burman Design
Lynda Bahloul, Fadhel Ismail, Mohamed El-Hadi Samar and Hazem Meradi
Presenter: Fadhel Ismail --- University of Annaba --- Algeria
- M100413.276 Nutritional evaluation and amino acids content of enzymatic extracts from invasive Tunisian green seaweeds
Salma Rekik, Bilel Hadrich, Karim Kriaa, Gilles Bedoux, Nathalie Bourgougnon and Nabil Kechaou
Presenter: Salma Rekik --- ENIS --- Tunisia
- M100413.277 Thermoacoustic prime mover sizing software
Tareq Konaina, Ekhlas Alkhwildy, Nasser Yassen and Issa Morad
Presenter: Tareq Konaina --- Damascus University --- Syrian Arab Republic
- M100413.279 Optimum solar stirling field spacing rate
Tareq Konaina, Nasser Yassen and Amina Fares
Presenter: Tareq Konaina --- Damascus University --- Syrian Arab Republic
- M100413.280 MSW treatment by integrated solutions: energy and environmental balances
Elena Cristina Rada, Marco Ragazzi, Gabriela Ionescu, Giacomo Merler, Fritz Moedinger, Massimo Raboni and Vincenzo Torretta
Presenter: Fritz Moedinger --- Barison Industry S.a.s. --- Italy
- M100413.283 USAMI Control with a Higher Order Harmonics Elimination Strategy based on the Resultant Theory
Rachid Taleb and Ahmed Derrouazin
Presenter: Rachid Taleb --- University Hassiba BenBouali of Chlef --- Algeria