

## TMREES Conference Series



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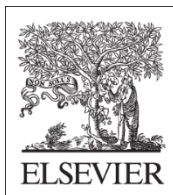
Technologies and Materials for Renewable Energy, Environment and Sustainability.  
TMREES16 International Conference

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# Conference Program

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# Preface

## TMREES CONFERENCE SERIES

### Technologies and Materials for Renewable Energy, Environment and Sustainability

TMREES16 International Conference // April 15 to 18, 2016| Beirut - Lebanon

Aseel Hassan, Chafic Salame, Michel Aillerie and Panagiotis Papageorgas

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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.

TMREES16, held in April 15-18, 2016 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.

**Keywords: Renewable Energy, Environment and Sustainability**

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**The TMREES16 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:**

#### **Topic 1: Special Session: Hydrogen Energy & fuel cells**

**Hydrogen Energy & fuel cells:** production, storage, transmission, utilization, enabling technologies, environmental impact, economic, thermochemical (combustion), photochemical, electrochemical (fuel cells) and nuclear conversion of hydrogen, mechanical & electrical energies (applications in transportation, industrial, commercial & residential sectors).

#### **Topic 2: Solar Energy: New Technologies & Advanced Material**

Thin Film solar cells (Si, CdTe, CIS), Solar Cells/ Modules/PV-Systems for Space Applications. Organic-based PV, Polymer PV, dye-sensitized cells/modules. PV Systems and components, PV System Reliability and Availability. PV and Architecture, integration in buildings and urban planning.

Photochemical Solar Energy Conversion, Photo thermal 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. Photovoltaic Materials, New Materials, Nanomaterials, Nanotechnologies, new Design/Concepts for PV Cells and Modules, Modeling and simulation, Semiconductors, III-V & concentrator cells for PV Solar application

#### **Topic 3: Other Renewable Sources of Energy**

**Smart grids:** Innovative systems with storage, Power electronics (components and applications), Power Quality issues, Solar panel Optimization techniques

**Energy Storage-Saving-Management:** Engineering Technologies & solutions, Energy Transmission and Distribution, Production and Efficiency Electricity Networks of the Future, Power and Energy Generation.

**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

#### **Topic 4: Management, Sustainability: Resources & Environmental Quality**

Hybrid and Integrated Energy System, Power Systems and Automation, Energy Policy, Planning & Management laws  
Electricity and Energy Efficiency, Building Management Systems, Smart Grid, Smart metering, Energy Storage & Plug-In Electric Vehicles. Industrial waste treatment, Air pollution control and equipment, Pollution prevention in industry, Water pollution and treatment. Environmental technologies and Contribution sustainability, Climate Change, emissions and Global Warming, 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.

## Friday - April 15, 2016

### Registration and Welcome Drink (8:30-10:00)

#### Opening session (10:00 – 12:00) :

S-I: Energy and Climate Change (Michel Aillerie, France)

S-II: Biomass and Sustainability (Georges Descombes, France)

S-III: The 3<sup>rd</sup> Industrial Revolution, Energy efficiency (Panagiotis Papageorgas, Greece)

S-IV: Technical Program, Conference details and Publication Guidance (Chafic-Touma SALAME, Lebanon)

#### KEYNOTE ADDRESS:

New hybrid materials comprising metal phthalocyanines and carbon nanotubes or graphenes for environmental detection applications. (Aseel Hassan, United Kingdom of Great Britain and Northern Ireland)

### Lunch (12:00 – 14:00)

#### Session I /Orals-T2/ (14:00 – 15:00). Chairs: Michel Aillerie, Issam Srour

O-(T2)-M.45 // The effects of organic solvents and their co-solvents on the optical, structural, morphological of P3HT:PCBM organic solar cells

Burak Kadem, Aseel Hassan and Wayne Cranton

**Presenter: Burak Kadem // Sheffield hallam University // United Kingdom of Great Britain and Northern Ireland.**

O-(T2)-M.5 // Evaluation of Hybrid Sol-gel Incorporated with Nanoparticles as Nano Paint

Zainab Jameel, Adawiya Haider, Samar Taha, Shubhra Gangopadhyay and Sangho Bok

**Presenter: Zainab N. Jameel // University of Technology, Baghdad-Iraq. // Iraq.**

O-(T2)-M.114 // A Numerical Study of Latent Thermal Energy Storage in a Phase Change Material /Carbon Panel

Najoua Mekaddem, Samia Ben Ali, Atef Mazioud and Ahmed Hannachi

**Presenter: Samia Ben Ali // National Engineering School of Gabes // Tunisia.**

#### Session II /Posters/ (15:00 – 16:00).

### Posters Presentations

### Coffee Break (16:00 – 16:30)

#### Session III /Orals-T3-T4/ (16:30 – 17:30). Chairs: Chafic-Touma Salame, Samia Ben Ali

O-(T3)-M.62 // The oasis of tiout southwest of algeria): water resources and sustainable development

Abdelkader HADIDI, Boualem REMINI, Mohamed HABI and Djamel SABA

**Presenter: Abdelkader Hadidi // Abou Bekr Belkaid University // Algeria.**

O-(T3)-M.111 // Assessment of Wind Energy Potential and Cost Estimation of Wind-generated Electricity at Hilltops Surrounding the City of Maroua in Cameroon

Dieudonné Kidmo Kaoga, Bachirou Bogno, Michel Aillerie, Raidandi Danwe, Serge Doka Yamigno, Oumarou Hamandjoda and Beda Tibi

**Presenter: Dieudonné Kidmo Kaoga // Higher Institute of the Sahel, University of Maroua // Cameroon.**

O-(T4)-M.51 // Energy-Driven Refurbishment of Existing Buildings

Maggie Khaddaj, Issam Srour and Mario Saab

**Presenter: Issam Srour // American University of Beirut // Lebanon.**

O-(T4)-M.3 // Energy production from high strength wastewater industry

Ahmed Tawfik and Mohamed El-Samadony

**Presenter: Ahmed Tawfik // Egypt-Japan University of Science and Technology // Egypt.**

## Saturday - April 16, 2016

### Session IV /Orals-T2/ (09:00 – 10:00). Chairs: Aseel Hassan, Issam Srour

**O-(T2)-M.6** // Structural and Optical Studied of Nano Structured Lead (II) Sulfide Thin Films Prepared by the Chemical Bath Deposition Technique

Nasser Saad Al Din, Nabiha Hussain and Nidhal Jandow

**Presenter:** Nabiha Hussain // Damascus University // Syrian Arab Republic.

**O-(T2)-M.26** // Biomimicry as an Approach for Sustainable Architecture-Case of Arid Regions with Hot and Dry climate-Nabila Bouabdallah, Houda M'Sellem and Djamel Alkama

**Presenter:** Nabila Bouabdallah // university of biskra // Algeria.

**O-(T2)-M.131** // Optimized MPPT Algorithm for boost converters taking into account the environmental variables Pierre Petit, Jean-Paul Sawicki, Frédéric Saint-Eve, Fabrice Maufay and Michel Aillerie

**Presenter:** Pierre Petit // LMOPS, Lorraine University & CentraleSupélec // France.

**O-(T2)-M.27** // Performances analysis and comparison of the CCPC and pyramid shaped solar concentrators for CPV Sarah El Himer, Zahra Benmohammadi, Sara El Yahyaoui, Ahaitouf Ali and Abdellah Mechaqrane

**Presenter:** Sarah El Himer // faculty of science and technology fes // Morocco.

### Coffee Break (10:00 – 10:30)

### Session V /Posters/ (10:30 – 12:00).

#### Posters Presentations

### Lunch (12:00 – 14:00)

### Session VI /Orals-T4/ (14:00 – 15:00). Chairs: Georges Descombes, Mohamed Fathi

**O-(T4)-M.37** // Progress in Energy Generation For Canadian Remote Sites Youssef Saad, Rafic Younes, Said Abboudi, Adrian Ilinca and Chadi Nohra

**Presenter:** Youssef Saad // Lebanese University // Lebanon.

**O-(T4)-M.66** // Lebanese Household Carbon Footprint: Measurements, Analysis and Challenges Ibrahim Tall, Rawad Nasr, Nour Nachabe and Farid Chaaban

**Presenter:** Rawad Nasr // American university of Beirut // Lebanon.

**O-(T4)-M.84** // Energy and Environmental Evaluation of Solid Oxide Fuel Cell System for Tri-generation in Residential Applications

Houssein Al Moussawi, Farouk Fardoun and Hasna Louahlia

**Presenter:** Houssein Al Moussawi // Lebanese University(EDST) + Université de Caen Basse Normandie(LUSAC) // Lebanon.

**O-(T4)-M.94** // Decision Making for Best Cogeneration Power Integration into a Grid

Joseph Al Asmar, Nadim Zakhia, Raed Kouta and Maxime Wack

**Presenter:** Joseph Al Asmar // Université Antonine; Université de Technologie de Belfort-Montbéliard // Lebanon.

### Session VII /Posters/ (15:00 – 16:00).

#### Posters Presentations

### Coffee Break (16:00 – 16:30)

### Session VIII /Posters/ (16:30 – 17:30).

#### Posters Presentations

### Gala Diner (Departure at 20:00 From Cosmopolitan)

## Sunday - April 17, 2016

**Awarding Prizes 1st & 2nd day // Observations of the 1st days // Next TMREES (10:00 – 11:00)**  
**Conference Ceremony + Brunch (11:30 – 13:30)**  
Departure From Cosmopolitan to the Touristic Tour - **Shouf Biosphere Reserve (14:00 – ....)**

## Monday - April 18, 2016

### Session IX /Orals-T2/ (09:00 – 10:00). Chairs: Michel Aillerie, Samia ben Ali

**O-(T2)-M.121** // Numerical modeling of GaInP/GaAs monolithic tandem solar cells  
EGHUUHNN0DKIRXG, Mohamed Fathi, Abderrahmane Belghachi and Farid Djahli  
**Presenter: Abderrezek Mahfoud // UDES/CDER-Tipaza // Algeria.**

**O-(T2)-M.132** // Thermal flow sensor used for thermal flow meter  
Amina Bekraoui  
**Presenter: Amina Bekraoui // URERMS/CDER // Algeria.**

**O-(T2)-M.134** // Dark and illuminated quantitative characteristics of PV solar modules under the influence of a dark Reverse current injection.  
Jean Zaraket, Michel Aillerie and Chafic Salame  
**Presenter: Jean Zaraket // Lebanese University // Lebanon.**

### Coffee Break - 10:00 – 10:30

### Session X /Posters/ (10:30 – 12:00).

#### Posters Presentations

### Lunch Break - 12:00 – 13:30

### Session XI /Orals-T4/ (14:00 – 15:00). Chairs: Nabiha Housein, Nidhal Jandow

**O-(T4)-M.96** // On eco-efficient technologies to minimize industrial water consumption  
Mohammad Amiri, Hossein Mohammadifard and Ghasem Ghaffari  
**Presenter: Mohammad Amiri // Isfahan University of Technology // Iran (Islamic Republic of).**

**O-(T4)-M.98** // Economic and environmental analysis of a solar thermal heating system for residential buildings in Algeria  
Salaheddine Bensalem, Khaled Imessad, Abderrahmane Hamidat and Mohamed Missoum  
**Presenter: Salaheddine Bensalem // CDER // Algeria.**

**O-(T4)-M.141** // Experimental Study and Effect of Particulate Interference on the Microhardness, Wear and Microstructural Properties of Ternary Doped Coating  
Osi Fayomi, Api Popoola and A. Inegbenebor  
**Presenter: Osi Fayomi // Covenant University // Nigeria.**

**O-(T4)-M.144** // Surface Treatment of PTFE Polymer using RF-Plasma  
Nagia Dawood  
**Presenter: Nagia Dawood // Taibah university // Saudi Arabia.**

**O-(T4)-M.141** // Experimental Study and Effect of Particulate Interference on the Microhardness, Wear and Microstructural Properties of Ternary Doped Coating  
Osi Fayomi, Api Popoola and A. Inegbenebor  
**Presenter: Osi Fayomi // Covenant University // Nigeria.**

### Conference closing note // Awarding Prize (for 3rd day) // Conference Toast (16:00 – 18:00)

## POSTERS PRESENTATIONS

**P-(T2)-M.14** // Deposition of Silver Nanoparticles on Multiwalled Carbon Nanotubes by chemical reduction process and Their Antimicrobial Effects

Adawiya J. Haider , Amin D. Thamir, Duha S. Ahmed, M. R. Mohammad

**Presenter:** Adawiya J. Haider // **University of Technology // Iraq.**

**P-(T2)-M.22** // Experimental Study of a solar still

Zkaria Sari Hassoun, Khaled Aliane and Hiba Imane Berrezoug

**Presenter:** Zkaria Sari Hassoun // **University of Tlemcen // Algeria.**

**P-(T2)-M.24** // Heating Residential Water Using Parabolic Trough Concentrators – Theoretical Calculations and Analysis  
Mahmoud Khaled, Mohamad Ramadan and Hicham El Hage

**Presenter:** Mahmoud Khaled // **Lebanese International University // Lebanon.**

**P-(T2)-M.29** // The influence of some doping on the PbS thin films properties deposited by CBD

Lynda Beddek, Meriem Messaoudi and Samira Guitouni

**Presenter:** Lynda Beddek // **Freres Mentouri Constantine // Algeria.**

**P-(T2)-M.31** // Performances and Failure of Field-Aged PV Modules Operating in Saharan Region of Algeria

Mohammed Sadok, Boumediene Benyoucef, Mourad Othmani and Ahmed Mehdaoui

**Presenter:** Mohammed Sadok // **URERMS- Adrar // Algeria.**

**P-(T2)-M.34** // A comparative study about the energetic impact of dry land residential buildings with the integration of photovoltaic system

Hocine BELAHYA, Abdelghani BOUBEKRI, Abdelouahed KRIKER and Imed SALHI

**Presenter:** Hocine Belahya // **UKMO // Algeria.**

**P-(T2)-M.40** // Numerical Study of a Flat Plate Solar Collector Equipped with Different Models of Baffles

Henaoui Mustapha, Sari-Hassoun Zakaria and Aliane Khaled

**Presenter:** Henaoui Mustapha // **Tlemcen University, Algeria // Algeria.**

**P-(T2)-M.47** // Effect of Substrate Temperature on The Optical Properties of CZTS Thin Films Deposited by Spray Pyrolysis

Guitouni Samira, Khammar Messaouda and Beddek Lynda

**Presenter:** Guitouni Samira // **lobortry of thin films // Algeria.**

**P-(T2)-M.52** // Modeling and simulation of InGaN/GaN quantum dots solar cell

A.Aissat , F.Benyettou, M. El. Bey, J.P.Vilcot

**Presenter:** Moussa El Bey // **University of Blida 1 // Algeria.**

**P-(T2)-M.65** // Fuel Cells, Batteries and Supercapacitors Stand-Alone Power Systems Management using Optimal/Flatness Based-Control

M. Benaouadj, A. Aboubou, M.Y. Ayad, M. Bahri, A. Boucetta

**Presenter:** Mahdi Benaouadj // **R&D, Industrial Hybrid Vehicle Applications // France.**

**P-(T2)-M.78** // New pilot for air humidification-Dehumidification Part I: Theoretical basis of the design

Adel Oueslati, Ahmed Hamachi and Mohamed Elmaaoui

**Presenter:** Adel Oueslati // **HigHER Institut of technological studies of Ksar Hellel // Tunisia.**

**P-(T2)-M.85** // The study by simulation of the antireflection layres:SnO<sub>2</sub> and ZnO in the solar cells n-SiC/p-SiC

Hana Zerfaoui, Djalel Dib, Rahmani Mohamed , Benyelloul Kamel and Mebarkia

**Presenter:** Hana Zerfaoui // **University of LarbiTébessi, // Algeria.**

**P-(T2)-M.90** // Modeling and Simulation of a hybrid system " wind - Photovoltaic " for producing electrical energy with Grid Connected

Mida Dris and Ben Attous Djilani

**Presenter:** Mida Dris // **University Mohamed KHIDER, BISKRA, Algeria // Algeria.**

**P-(T2)-M.91** // the role of buffer layers and double windows layers in a solar cell CZTS performances

Chafia Mebarkia, Djalel Dib and Belghit Rafik

**Presenter:** Hana Zerfaoui // **University of Tebessa // Algeria.**



**P-(T2)-M.95** // Adaptive Smart Simulator for Characterization and MPPT Construction of PV Array

Mehdi Ouada, Mohamed Salah Meridjet and Djalel Dib

**Presenter:** Mehdi Ouada // Badji Mokhtar annaba university // Algeria.

**P-(T2)-M.99** // Outdoor performances of four photovoltaic technologies under four typical meteorological conditions

Abderrezak Guenounou, Michel Aillerie, Ali Malek, Ahcene Tricky, Allaoua Oulebsir, Zoubeyr Smara, Achour Mahrane and Madjid Chikh

**Presenter:** Abderrezak Guenounou // UDES/EPST CDER Tipaza // Algeria.

**P-(T2)-M.102** // Effect of GEMPEHD thermal properties on the propagation of heat in a solar collector

Nassim Baba Ahmed and Abderrahim Benmoussat

**Presenter:** Nassim Baba Ahmed // University of Tlemcen // Algeria.

**P-(T2)-M.104** // Short review on solar energy systems

Amal Herez, Mohamad Ramadan and Mahmoud Khaled

**Presenter:** Amal Herez // Lebanese International University // Lebanon.

**P-(T2)-M.108** // Characterization of Silica Quartz as raw material in photovoltaic application

S. Anas Boussaa, A. Kheloufi, N. Boutarek Zaourar, A.Kefaifi, F. Kerkar

**Presenter:** Anas Boussaa Sabiha // CRTSE // Algeria.

**P-(T2)-M.109** // Influence of Precursor Solution Volume on the Optical Properties of Spray Deposited ZnO Films

Asma Bedia, Fatima Zohra Bedia, Michel Aillerie and Nabila Maloufi

**Presenter:** Asma Bedia // Université de Lorraine & Centralesupelec, Metz // France.

**P-(T2)-M.112** // Control Device for Automatic Orientation of a Solar Panel Based on a Microcontroller (Pic16f628a)

Mohamed Redha Rezoug and Abdelbasset Krama

**Presenter:** Mohamed Redha Rezoug // University of ouargla // Algeria.

**P-(T2)-M.116** // Optimal Sizing of Stand-Alone Hybrid PV-Diesel-Battery System Using PSO and the e-Constraint Method.

Fadhila Fodhil, Abderrahmane Hamidat and Omar Nadjemi

**Presenter:** Fadhila Fodhil // Université de Blida // Algeria.

**P-(T2)-M.119** // Comparative study between four MPPT controls of a photovoltaic generators

Lotfi Atik, Pierre Petit, Zineddine Touhami Ternifi, Ghalem Bachir and Michel Aillerie

**Presenter:** Lotfi Atik // University of science and technology of Oran, USTO, LDDE, Oran // Algeria.

**P-(T2)-M.120** // Quality improvement of the ac electrical energy produced by a modular inverter dedicated to PV applications

Touhami Zine Eddine Ternifi, Lotfi Atik, Ghalem Bachir, Ahmed Wahid Belarbi, Pierre Petit and Michel Aillerie

**Presenter:** Touhami Zine Eddine Ternifi // University of science and technology of Oran // Algeria.

**P-(T2)-M.122** // Simulation of the outdoor energy efficiency of an autonomous solar kit based on meteorological data for a site in Central Europa

Mohammed Moustafa Bouzaki, Meriem Chadel, Boumediene Benyoucef, Pierre Petit and Michel Aillerie

**Presenter:** Boumediene Benyoucef // University of Tlemcen // Algeria.

**P-(T2)-M.125** // Performance simulation of hybrid photovoltaic solar assisted heat pump/loop heat pipe system

Zheng Zhang and Shuhong Li

**Presenter:** Shuhong Li // Southeast University // China.

**P-(T2)-M.127** // A numerical study of a vertical air collector with obstacle

Moumeni Abdelhamid, Bouchekima Bachir and Lati Moukhtar

**Presenter:** Moumeni Abdelhamid // université kasdi merbah ouargla // Algeria.

**P-(T2)-M.128** // Technico – economic assessment of hybrid Diesel - photovoltaic power plant in the south of ALGERIA

Kadri Ahmed Yacine and Hamidat Abderahmane

**Presenter:** Kadri Ahmed Yacine // université kasdi Merbah Ouargla // Algeria.

**P-(T2)-M.129** // Description of the electronic band Gaps in Si1-y Cy alloys with the modified Becke-Johnson potential (mBJ-LDA)

Rahmani Mohamed and Prof. Yakoubi Abdelkader

**Presenter:** Rahmani Mohamed // university djillali liabes of sidi bel abbes // Algeria.

**P-(T2)-M.51005** // Evaluation of Hybrid Sol-gel Incorporated with Nanoparticles as Nano Paint  
Zainab Jameel, Adawiya Haider, Samar Taha, Shubhra Gangopadhyay and Sangho Bok  
**Presenter: Samar Taha // College of science for Women , Baghdad university // Iraq.**

**P-(T2)-M.51006** // Structural and Optical Studied of Nano Structured Lead (II) Sulfide Thin Films Prepared by the Chemical Bath Deposition Technique  
Nasser Saad Al Din, Nabiha Hussain and Nidhal Jandow  
**Presenter: Nasser Saad Al Din // Damascus University // Syrian Arab Republic.**

**P-(T2)-M.51112** // Control Device for Automatic Orientation of a Solar Panel Based on a Microcontroller (Pic16f628a)  
Mohamed Redha Rezoug and Abdelbasset Krama  
**Presenter: Abdelbasset Krama // University of ouargla // Algeria.**

**P-(T2)-M.52006** // Structural and Optical Studied of Nano Structured Lead (II) Sulfide Thin Films Prepared by the Chemical Bath Deposition Technique  
Nasser Saad Al Din, Nabiha Hussain and Nidhal Jandow  
**Presenter: Nidhal Jandow // Mustansiriya University Department of physics // Iraq.**

**P-(T2)-M.133** // Study of Structural and Electronic Properties of binary alloy Si<sub>1-y</sub> Cy  
Rahmani Mohamed  
**Presenter: Rahmani Mohamed // university djillali liabes of sidi Bal Abbes // Algeria.**

**P-(T2)-M.135** // Dark and illuminated quantitative characteristics of photovoltaic solar modules under the influence of a light electrical stresses  
Jean Zaraket, Michel Aillerie and Chafic Salame  
**Presenter: Jean Zaraket // Lebanese University // Lebanon.**

**P-(T3)-M.10** // Evaluation of wind energy cost and site selection for a wind farm in the south of Algeria  
Benmedjahed Miloud and Mouhadjer Samir  
**Presenter: Benmedjahed Miloud // (URER.MS) ADRAR // Algeria.**

**P-(T3)-M.13** // An Effective Control Strategy To Maximize Power Extraction From Wind Turbines  
Samir Mouhadjer  
**Presenter: Samir Mouhadjer // unité de Recherche URERMS Adrar-Algérie // Algeria.**

**P-(T3)-M.60** // A Review on the Performance and Modelling of Proton Exchange Membrane Fuel Cells  
A. Boucetta, H. Ghodbane, M.Y. Ayad and M. Bahri  
**Presenter: Abir Boucetta // R&D, Industrial Hybrid Vehicle Applications // France.**

**P-(T3)-M.88** // A multi-perspective review of microbial fuel cells for wastewater treatment: bioelectrochemical, microbiologic and modelling aspects  
Andrea G Capodaglio, Daniele Molognoni and Anna Vilajeliu Pons  
**Presenter: Andrea G Capodaglio // University of Pavia // Italy.**

**P-(T3)-M.97** // Energy optimization for a wind DFIG with flywheel energy storage  
Bouchafaa Farid and Hamzaoui Ihssen  
**Presenter: Bouchafaa Farid // USTHB Algiers Algeria // Algeria.**

**P-(T3)-M.101** // SOIL CONTAMINATION BY PETROLEUM PRODUCTS: SOUTH ALGERIAN CASE  
Amina Belabbas and Djamel Boutoutaou  
**Presenter: Amina Belabbas // University Kasdi Merbah Ouargla // Algeria.**

**P-(T3)-M.137** // Design of a nonlinear backstepping control strategy of Grid Interconnected Wind Power System based PMSG  
Youssef Errami, Abdellatif Obbadi, Smail Sahnoun, Mohammadi Benhmida, Mohammed Ouassaid and Mohamed Maaroufi  
**Presenter: Youssef Errami // University Chouaib Doukkali, Eljadida // Morocco.**

**P-(T4)-M.8** // Study on the benefits of using the date palm trees residuals in saudi arabia for development of the non-traditional wooden industry  
Mohamed Nabil Metwally, Hamza Ghulman and Mohamed Alhazmi  
**Presenter: Mohamed Nabil Metwally // Umm Alqura University // Saudi Arabia.**



**P-(T4)-M.15** // Contribution to the study of thermal properties of clay bricks reinforced by date palm fiber  
Mekhermeche Abdessalam, Kriker Abdelouahed and Dahmani Saci  
**Presenter:** Mekhermeche Abdessalam // university of Kasdi Merbah Ouargla // Algeria.

**P-(T4)-M.20** // Effect of the Addition of By-Product Ash of Date Palms on the Mechanical Characteristics of Gypsum-Calcareous Materials Used in Road Construction  
Khellou Abderrezak and Kriker Abdelouahed  
**Presenter:** Khellou Abderrezak // University Kasdi Merbah of Ouargla, Algeria // Algeria.

**P-(T4)-M.21** // Microbial diversity and organic matter fractions under two arid soils in Algerian Sahara  
Mokhtar Karabi, Baelhadj Hamdi Aissa and Salah Zenkhri  
**Presenter:** Mokhtar Karabi // University of Ouargla, // Algeria.

**P-(T4)-M.23** // Effect of Exposure Delay of Concrete into Aggressive Environment  
Youcef ABIMOULOUD and Abdelouahed KRIKER  
**Presenter:** Youcef ABIMOULOUD // University Kasdi Merbah Ouargla // Algeria.

**P-(T4)-M.28** // Assessment of groundwater vulnerability to pollution using the kherici's method in the Telezza plain (N-E Algéria)  
Badra Attoui, Samia Benrabah -Titi, Najet Zair, Habiba Majour and Nacer Kherici  
**Presenter:** Badra Attoui // Geology Laboratory Badji Mokhtar University // Algeria.

**P-(T4)-M.33** // An Intelligent Traceability System: efficient tool for a Supply Chain Sustainability  
Abdesselam Bougdira, Abdelaziz Ahaitouf and Ismail Akharraz  
**Presenter:** Abdesselam Bougdira // Polydisciplinary Faculty of Taza // Morocco.

**P-(T4)-M.35** // An experimental study on recovering heat from domestic drain water  
Mohamad Ramadan and Mahmoud Khaled  
**Presenter:** Mohamad Ramadan // Lebanese International University // Lebanon.

**P-(T4)-M.36** // Floristic characterization of pre-steppe grouping to Remth (Hammada scoparia) in the Western Saharan Atlas (Naama- Algeria)  
Boucherit Hafidha, Benabdeli Khéloufi and Benaradj Abdelkrim  
**Presenter:** Boucherit Hafidha // University Center of Naama // Algeria.

**P-(T4)-M.39** // A novel approach with energy consumption of routing protocol for wireless sensor network  
Wassim Jerbi, Abderrahmen Guermazi and Hafedh Trabelsi  
**Presenter:** Wassim Jerbi // Higher Institute of Technological Studies // Tunisia.

**P-(T4)-M.41** // Assessment of groundwater vulnerability by combining Drastic and susceptibility index: application to Annaba superficial aquifer (Algeria)  
Sedrati Nassima, Djabri Larbi and Chaffai Hicham  
**Presenter:** Sedrati Nassima // annaba university // Algeria.

**P-(T4)-M.42** // Approach to the ground water characterization of khanchela region (eastern algeria)  
Titi Benrabah Samia, Attoui Badra and Mani Hannouche  
**Presenter:** Titi Benrabah Samia // université badji mokhtar, Annaba, Algérie // Algeria.

**P-(T4)-M.43** // Control Powers Structure of DFIG Based on Fractional Regulator Fed by Multilevel Inverters DC Bus Voltages of a PV system  
Ghoudelbourk Sihem, Dib Djalel, Dendani Hayette and Omeiri Ammar  
**Presenter:** Dendani Hayette // University Badji Mokhtar of Annaba // Algeria.

**P-(T4)-M.44** // Influence of crumb rubber powder on the characteristics of asphalt concrete in south Algeria  
Kebaili Nabil  
**Presenter:** Kebaili Nabil // university // Algeria.

**P-(T4)-M.46** // LIFE CYCLE ASSESSMENT APPLIED TO THE MICROELECTRONIC DEVICES SECTOR  
Agata Matarazzo  
**Presenter:** Agata Matarazzo // university of catania // Italy.

**P-(T4)-M.48** // Rough set approach applied to air pollution to manage high risk rate industrial areas  
Agata Matarazzo  
**Presenter:** Agata Matarazzo // university of catania // Italy.

**P-(T4)-M.49** // forest certification standards as tool for environmental sustainability in wood building sector  
Agata Matarazzo

**Presenter:** Agata Matarazzo // university of catania // Italy.

**P-(T4)-M.53** // Quantification and multivariate analysis of water erosion in the Mediterranean region: a case study of the Isser basin. Northern Algeria.

Houari Zeggane and Djamel Boutoutaou

**Presenter:** Houari Zeggane // University Kasdi Merba, Ouargla // Algeria.

**P-(T4)-M.54** // Production of biomass by Spirulina at different groundwater type (Case of Ouargla -southeast Algeria-)  
Saggai Ali, Dadamoussa Belkheir, Djaghoubi Afaf and Bissati Samia

**Presenter:** Saggai Ali // University KASDI Merba Ouargla // Algeria.

**P-(T4)-M.56** // Abacus to determine the groundwater evaporation in arid areas case of the region of Ouargla  
Myriam Marie El Fergougui and Djamel Boutoutaou

**Presenter:** Myriam Marie El Fergougui // univertité kasdi merbah // Algeria.

**P-(T4)-M.57** // PCDD/FS environmental impact from an anaerobic digestion treatment

Elena Cristina Rada, Agnese Ferrari, Marco Ragazzi, Marco Schiavon and Vincenzo Torretta

**Presenter:** Elena Cristina Rada // University of Trento // Italy.

**P-(T4)-M.58** // Experimental Study on Flat Plate Air Solar Collector Using a Thin Sand Layer

Lati Moukhtar, Slimane Boughali, Hamza Bouguettaia, Djamel Mennouche and Djamel Bechki

**Presenter:** Lati Moukhtar // Ouargla University // Algeria.

**P-(T4)-M.61** // Effect of reed stalks on the flow velocity in an rectangular open canal in the arid areas

Laid Mechri, Djamel Boutoutaou, Sofiane Saggai and Mohamed Lakhdar Saker

**Presenter:** Laid Mechri // Universty of Ouargla // Algeria.

**P-(T4)-M.64** // Environmental and Comfort Upgrading through Lean technologies in Informal Settlements: Case study in Nairobi, Kenia and New Delhi, India

Lavinia Chiara Tagliabue, Enrico De Angelis, Paolo Zecchini and Mattia Milanese

**Presenter:** Lavinia Chiara Tagliabue // University of Brescia // Italy.

**P-(T4)-M.67** // Study of hydro-saline characteristics of soils a palm grove in basin of ouargla (northern algerian sahara)

Djihed Rezagui, Mustapha Daddi Bouhoun, Djamel Boutoutaou and Afaf Djaghoubi

**Presenter:** Djihed Rezagui // University Ouargla // Algeria.

**P-(T4)-M.68** // Effect of hot-dry environment on fiber-reinforced self-compacting concrete

Tahar Tioua , Abdelouahed Kriker , Imed Salhi and Gonzalo Barluenga

**Presenter:** Tioua Tahar // University of Ouargla // Algeria.

**P-(T4)-M.69** // Durability of visitable gallery concrete under the effect of domestic wastewater.

Imed Salhi, Abdelouahed Kriker and Tahar Tioua

**Presenter:** Imed Salhi // University of Kasdi Merbah Ouargla, Algeria // Algeria.

**P-(T4)-M.70** // Water pollution evaluation of Oued Boudjema (Algeria)

Radia Hafsi, Lahbassi Ouerdachi, Abed El Ouahd Kriker and Hamouda Boutaghane

**Presenter:** Radia Hafsi // Kasdi Merbah University Of Ouargla, Algeria. // Algeria.

**P-(T4)-M.71** // Effect of quality of phreatic aquifer water and water upwelling on constructions: a case study of Ouargla

Saggai Sofiane, Bachi Oum Elkheir and Saggai Ali

**Presenter:** Saggai Sofiane // GEEMS // Algeria.

**P-(T4)-M.72** // Bio-characterization of Solanum aethiopicum leaf: Prospect on steel-rebar total-corrosion in chloride-contaminated-environment

Joshua Okeniyi, Elizabeth Okeniyi and Taiwo Owoeye

**Presenter:** Joshua Okeniyi // Covenant University, Ota, Nigeria // Nigeria.

**P-(T4)-M.73** // Performance of Terminalia catappa on Mild Steel Corrosion in HCl Medium

Olugbenga Omotosho, Joshua Okeniyi, Cleophas Loto, Abimbola Popoola, Chukwunonso Obi, Oluwatobi Sonoiki,

Adeoluwa Oni, Ayomide Alabi and Abisola Olarewaju

**Presenter:** Olugbenga Omotosho // Covenant University // Nigeria.



**P-(T4)-M.75** // Inhibition and Mechanism of Terminalia catappa on Mild-Steel Corrosion in Sulphuric-Acid Environment  
Olugbenga Omotosho, Joshua Okeniyi, Adeoluwa Oni, Thomas Makinwa, Omokolade Ajibola, Ekundayo Fademi,  
Chukwunonso Obi, Cleophas Loto and Abimbola Popoola

**Presenter:** Olugbenga Omotosho // Covenant University // Nigeria.

**P-(T4)-M.79** // Impact of mining residues on surface and groundwater quality Case of Azzaba mining sector in the North-East of Algeria

Haouli Zouina , Kherici Nacer, Derdous Oussama, Sassane Amina, Bougherira Nabil

**Presenter:** Zouina Haouli // BADJI MOKHTAR ANNABA UNIVERSITY // Algeria.

**P-(T4)-M.80** // Underground karst cavities simulated by geomechanical and hydraulic parameters of the fractured rock in Cheria area, NE Algerea

Baali Fethi, Chamekh Khemissi and Yahiaoui Abde El Wahab

**Presenter:** Chamekh Khemissi // Labo Eau et Environnement // Algeria.

**P-(T4)-M.81** // Hydrogeological setting of the karstic aquifer in a semi arid region: case Cheria plain, Eastern Algeria  
Chamekh Khemissi, Baali Fethi and Kerboub Djawher

**Presenter:** Chamekh Khemissi // Labo Eau et Environnement // Algeria.

**P-(T4)-M.82** // Economic and technical study for hybrid power system in the north east of Algeria  
Louai Nabila and Khaldi Fouad

**Presenter:** Louai Nabila // université Batna-Algeria // Algeria.

**P-(T4)-M.86** // Contribution of the conferences of the parties and the renewable energy role for the fight against climate change

Anissa. Ghezloun, Ali. Saidane, Nassima. Oucher and Hamza. Merabet

**Presenter:** Anissa Ghezloun // CDER // Algeria.

**P-(T4)-M.87** // Phyllanthus muellerianus and C<sub>6</sub>H<sub>15</sub>NO<sub>3</sub> Synergistic Effects on 0.5 M H<sub>2</sub>SO<sub>4</sub>-Immersed Steel-Reinforced Concrete: Implication for Clean Corrosion-Protection of Wind Energy Structures in Industrial Environment

Joshua Okeniyi, Olugbenga Omotosho, Abimbola Popoola and Cleophas Loto

**Presenter:** Joshua Okeniyi // Covenant University, Ota, Nigeria // Nigeria.

**P-(T4)-M.89** // Quality And Management Of Hot Water Of Intercalary Continental, Northern Sahara Of Algeria  
Ala Eddine Tifrani and Imed Eddine Nezli

**Presenter:** Ala Eddine Tifrani // university of Kasdi Merbah // Algeria.

**P-(T4)-M.92** // Hydrochemical characteristics of the thermal sources in the extreme Northeastern part of Algeria  
Bekkouch Mohamed Fouzi and Benhamza Moussa

**Presenter:** Bekkouch Mohamed Fouzi // Centre universitaire Tindouf // Algeria.

**P-(T4)-M.93** // Mercuric Ions (II) Uptake From Aqueous Solutions by Chelating Resin Containing Pendant Multidentate Ligand

Ali Sami Ismail

**Presenter:** Ali Sami Ismail // Baghdad University // Iraq.

**P-(T4)-M.100** // improving the behavior of body roads by the use of gravel-slag mixture

Hocine Hadidane, Hocine Oucief and Mouloud Merzoud

**Presenter:** Hocine Hadidane // Laboratoire MGE, Badji Mokhtar University - Annaba // Algeria.

**P-(T4)-M.103** // Thermal properties of the composite material Clay-Alfa fibers: application to earth brick in northern Morocco

Abdelhamid Khabbazi, Abdallah Dadi and Yassine Elhamdouni

**Presenter:** Yassine Elhamdouni // Ecole Mohamedia d'Ingénieurs // Morocco.

**P-(T4)-M.106** // Intelligent Street Lightning System Using Solar Panels and Piezoelectric Harvesters  
Nisrine Sinno and Elie Barakat

**Presenter:** Nisrine Sinno // Lebanese university-Faculty of Sciences I // Lebanon.

**P-(T4)-M.107** // Contribution the study Physico-Mécanical of cement CRS Basis of powder of dune sand and other minerals

Dahmani Saci and Kriker Abdelouahed

**Presenter:** Dahmani Saci // universiry kasdi merbah ouargla // Algeria.

- P-(T4)-M.110** // Short Review on Heat Recovery from Exhaust Gas  
Mohamad Ramadan, Mahmoud Khaled, Hassan Jaber and Thierry Lemenand  
**Presenter: Mohamad Ramadan // Lebanese International University // Lebanon.**
- P-(T4)-M.113** // Durability of concrete under the influence of sulphates the region of ouargla – Algeria  
Boumehras Mohammed-Amin, Mellas Mekki and Kriker Abdelouahed  
**Presenter: Boumehras Mohammed-Amin // university of Biskra // Algeria.**
- P-(T4)-M.115** // Strategy of energy retrofitting for historical urban districts  
Elena Cantatore, Fabio Fatiguso and Mariella De Fino  
**Presenter: Mariella De Fino // Politecnico di Bari // Italy.**
- P-(T4)-M.123** // Study the development (Evolution) of process of hydraulic fracturing « the study of the well-bore ONM 543».  
Arbaoui Mohammed Ali and Hacini Messaoud  
**Presenter: Arbaoui Mohammed Ali // University of Kasdi Merbeh Ouargla // Algeria.**
- P-(T4)-M.130** // A study of gasoline vapor condensation recovery technique  
Lu Jieming and Du Kai  
**Presenter: Lu Jieming // School of Energy and Environment, Southeast University // China.**
- P-(T4)-M.99001** // Role of the commerce and industry in the sustainable development  
Emmanuel Labis  
**Presenter: Emmanuel Labis // CCI // France.**
- P-(T4)-M.99002** // Role of the commerce and industry in the sustainable development  
Christelle Chiché-Tohibo  
**Presenter: Christelle Chiché-Tohibo // CCI // France.**
- P-(T4)-M.99004** // Thermal heating and sustainability  
Antoune Combes  
**Presenter: Antoune Combes // CNAM // France.**
- P-(T4)-M.138** // Physico-chemical characterization of thermo mineral springs: case of hammam meskoutine (NE Algeria).  
Benamara, Kherici-Bousnoubra and Bouguerra  
**Presenter: Benamara // Badji Mokhtar University, Annaba // Algeria.**
- P-(T4)-M.139** // Hydrochemical Characteristics Of The Thermal Sources In The Extreme Northeastern Part Of Algeria  
Bekkouch Mohamed Fouzi and Benhamza Moussa  
**Presenter: Bekkouch Mohamed Fouzi // Centre universitaire de Tindouf // Algeria.**
- P-(T4)-M.140** // Non-Linear Controllers Applied To a DC-DC Buck Converter Using PSO  
Hadjer Abderrezek, Aissa Ameer and M.N Harmas  
**Presenter: Hadjer Abderrezek // university Amar Telliji Laghouat // Algeria.**
- P-(T2)-M.142** // Modeling and Sizing of Combined Fuel Cell-Thermal Solar System for Energy Generation  
Mohamad Ramadan, Mahmoud Khaled, Haitham Ramadan and Mohamed Becherif  
**Presenter: Mahmoud Khaled // Lebanese International University // Lebanon.**
- P-(T4)-M.143** // Behavior of some organic pollutants in the waters of Meboudja's plain (North - East Algerian)  
Amina Sassane, Nacer Kherici and Zouina Haouli  
**Presenter: Amina Sassane // Departmen of Geologyt -Badji Mokhtar University , 23000Annaba. // Algeria.**
- A-(T2)-M.51005** // Evaluation of Hybrid Sol-gel Incorporated with Nanoparticles as Nano Paint  
Zainab Jameel, Adawiya Haider, Samar Taha, Shubhra Gangopadhyay and Sangho Bok  
**Presenter: Samar Taha // College of science for Women , Baghdad university // Iraq.**
- A-(T2)-M.51006** // Structural and Optical Studied of Nano Structured Lead (II) Sulfide Thin Films Prepared by the Chemical Bath Deposition Technique  
Nasser Saad Al Din, Nabiha Hussain and Nidhal Jandow  
**Presenter: Nasser Saad Al Din // Damascus University // Syrian Arab Republic.**

**A-(T4)-M.51051** // Energy-Driven Refurbishment of Existing Buildings

Maggie Khaddaj, Issam Srour and Mario Saab

**Presenter: Issam Srour // American University of Beirut // Lebanon.**

**A-(T2)-M.51112** // Control Device for Automatic Orientation of a Solar Panel Based on a Microcontroller (Pic16f628a)

Mohamed Redha Rezoug and Abdelbasset Krama

**Presenter: Abdelbasset Krama // University of ouargla // Algeria.**

**A-(T2)-M.52006** // Structural and Optical Studied of Nano Structured Lead (II) Sulfide Thin Films Prepared by the Chemical Bath Deposition Technique

Nasser Saad Al Din, Nabih Hussain and Nidhal Jandow

**Presenter: Nidhal Jandow // Mustansiriya University Department of physics // Iraq.**

**A-(T4)-M.99001** // Role of the commerce and industry in the sustainable development

Emmanuel Labis

**Presenter: Emmanuel Labis // CCI // France.**

**A-(T4)-M.99002** // Role of the commerce and industry in the sustainable development

Christelle Chiché-Tohibo

**Presenter: Christelle Chiché-Tohibo // CCI // France.**

**A-(T4)-M.99004** // Thermal heating and sustainability

Anthony Combes

**Presenter: Anthony Combes // CNAM // France.**

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## TMREES16 Daily Program

Friday, April 15, 2016	
08:30 – 10:00	Registration – Welcome Drink
10:00 – 12:00	<b>Opening Session</b>
12:00 – 14:00	<i>Lunch</i>
14:00 – 15:00	Session I
15:00 – 16:00	Session II: Posters Presentations
16:00 – 16:30	<i>Coffee Break</i>
16:30 – 17:30	Session III: Posters Presentations
Saturday, April 16, 2016	
09:00 – 10:00	Session IV
10:00 – 10:30	<i>Coffee Break</i>
10:30 – 12:00	Session V: Posters Presentations
12:00 – 14:00	<i>Lunch</i>
14:00 – 15:00	Session VI
15:00 – 16:00	Session VII: Posters Presentations
16:00 – 16:30	<i>Coffee Break</i>
16:30 – 17:30	Session VIII: Posters Presentations
20:00 - ...	<i>Departure to the Gala Dinner</i>
Sunday, April 17, 2016: Social & Ceremonial	
10:00 – 11:00	<i>Awarding Prizes (for 1<sup>st</sup> &amp; 2<sup>nd</sup> day) – Conference Notes</i>
11:30 – 13:30	<i>Conference Ceremony + Brunch</i>
14:00	<i>Departure to the Touristic Tour (Shouf Biosphere Reserve)</i>
Monday, April 18, 2016	
09:00 – 10:00	Session IX
10:00 – 10:30	<i>Coffee Break</i>
10:30 – 12:00	Session X: Posters Presentations
12:00 – 14:00	<i>Lunch</i>
14:00 – 15:00	Session XI
15:00 – 16:30	Session XII: Posters Presentations
16:30 – 18:30	<i>Awarding Prize (for 3<sup>rd</sup> day) - Closing note - Conference Toast</i>



## CALL FOR PAPERS

“TMREES Conference Series” aim to promote sustainable, healthy and diverse ecosystems; encourage & support the Sustainability and development of security systems through green-based and clean resources and processes, bringing together participants from international organizations, universities, industry and administrative around the world to exchange innovative and novel ideas, explore enabling technologies, share experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on the society.

The 2016 TMREES Fall Meeting Topics Include, but are not limited to:

T1: **Special Session: Hydrogen Energy & fuel cells**

T2: **Solar Energy: New Technologies & Advanced Material**

T3: **Renewable Sources: Energy Storage-Saving-Management; Wind energy; Bioenergy; Biofuels; Hydropower**

T 4: **Management & Sustainability: Resources & Environmental Quality**

**Publications: Special Issues for 2016 TMREES Fall Meeting**



All accepted Papers are allowed to be published by one of the following Issues.

1- **AIP Scitation, American Institute of Physics Publishing LLC** (H-index: 34)

2- **Energy Procedia, Elsevier** (H-index: 37)

3- **International Journal of Hydrogen Energy-IJHE, Elsevier**(5-Year IF: 3.448)

4- **Progress in Industrial Ecology - PIE, InderScience** (H-index: 19)

5- **Journal of Electron Devices -JELDEV** (H-index: 13)

6- Papers Selection with **Management of Environmental Quality -MEQ, Emerald** (H-index: 17)

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