



**ERASMUS INTENSIVE
PROGRAMMES
2013-1-TR1-ERA10-48722**



**20-29 September 2013
Antalya - TURKEY**

PROGRAMME

19 September 2013 Thursday		
09:30-20:30 Arrivals of participants and On-desk Registration		
20 September 2013 Friday		
08:00-12:00 On-desk Registration		
Opening Session		
09:00 - 09:05	"A starting talk for EWRES 2013", Prof. Dr. Erol Kurt (Head of the organizing committee, ERAMUS IP Coordinator)	
09:05 - 09:15	Opening Talk of Sponsoring Institutions	
09:15 - 09:20	Ministry of Energy and Natural Resources for Republic of Turkey	
Invited Talk Session 1		
Chairman: Assoc. Prof. Dr. Erol Kurt		
09:20-09:45	Application of quality assurance in a nuclear R&D task	Kwan-Hyun Kim
Short Talk Session 1 "Energy - environment relations"		
Chairman: Prof. Dr. Eleonora Guseinoviene		
09:45-10:00	Possibility of geothermal exploitation in south Algeria for agriculture	Salima Ouali, Khedidja Bouzidi
10:00-10:15	Wind power systems: environmental aspects and impacts	Haddad Louiza; Aouachria Zeroual
10:15-10:30	Impact of electric vehicle penetration in distribution networks	José Romero Ruiz
10:30-10:45	Full scale experimental studies of a passive cooling roof in hot arid areas	Hamida ben Cheikh
10:45-11:00	A study on the electromagnetic field of a high voltage transmission line over the water surface	Jelena Dikun; Eleonora Guseinoviene; Antanas Andrius Bielskis; Donatas Gedmintas
11:00-11:15 Coffee Break		
Short Talk Session 2 "Wind energy applications"		
Chairman: Prof. Dr. Fawzi Al-Naima		
11:15-11:30	Text mining for systematic literature review on wind energy	Yunus EROĞLU; Serap SEÇKİNER
11:30-11:45	Towards development of feasible offshore wind turbine concepts	Abdollah Afjeh
11:45-12:00	DTC-SVM reliability in losses minimization of wind conversion chain output inverter	Bourourou Fares
12:00-12:15	Offshore wind farms development in relation to environmental protected areas	Ioanna Spiropoulou; George Kehayias; Dimitrios Karamanis
12:15-12:30	Research of small power vertical wind turbine	Eleonora Guseinoviene
12:30-13:45 LUNCH		
Short Talk Session 3 "Bio-energy"		
Chairman: Assoc. Prof. Dr. Çiğdem Yangın Gömeç		

13:45-14:00	Microalgae based green diesel production	Funda Çetin; Fatma Meliz Tunç; Burcu Yoğurtçu
14:00-14:15	Investigation of blended diesel-biodiesel effect on user convenience due to transmitted vibration using ANFIS method	Seyed Vahid Mirnezami; Seyed Reza Hasan-beygi; Rahman Abdolazade; Ahmad Banakr; Barat Ghobadian; Mehdi Malati
14:15-14:30	Effects of diesel-biodiesel blend types on hand transmitted vibration of a riding power tiller	Seyed Vahid Mirnezami; Seyed Reza Hasan-beygi; Barat Ghobadian; Rahman Abdolazade; Mehdi Malati
14:30-14:45	Competition of microwaves heating in essential oils extraction: Case of Anacyclus Clavatus's leaves	Nacéra Tigrine
14:45-15:00	Biomethane recovery from diluted chicken manure at the anaerobic sludge bed reactor operated far below mesophilic temperatures	Çiğdem Yangın Gömeç; Aigerim Jaxybayeva; Fatih Yılmaz; Orhan İnce
15:00-15:30 Coffee Break and Workshop&Conference Photo		
Short Talk Session 4 "Solar Energy Applications"		
Chairman: Prof. Dr. Shadia Ikhmayies		
15:30-15:45	Thickness dependence of the optical parameters of CdTe thin films prepared by thermal evaporation	Shadia Ikhmayies
15:45-16:00	Non-destructive testing of anti-reflection coatings for solar cells	Aref Lakhal
16:00-16:15	Simulation tool for photovoltaic system with object oriented programming	Celal Can
16:15-16:30	Maximum power point tracking application with intelligent algorithms in the renewable energy sourced systems	İpek Çetinbaş
16:30-16:45	Performance Investigation of a finny perforated solar collector	Masoud Razmipour; Hamid Mortezapour
16:45-17:00	Solar power tower technology for Algeria: volumetric air or water/steam?	Noureddine Yamani
17:00-17:15	Optical parameters of thermally evaporated CdS thin films	Shadia Ikhmayies
17:15-17:30	Methods for calculating longwave radiation: A basic summary for engineers	Abdullrahman Maghrabi
17:30-18:00 Poster Session Evaluation by International Scientific Committee		
19:30 WELCOME COCKTAIL		
21 September 2013 Saturday		
Invited Talk Session 2		
Chairman: Prof. Dr. Erol Kurt		
09:00-09:30	Fuzzy Controller Design Using Particular Swarm Optimization For Photovoltaic Maximum Power Tracking	Youcef Soufi
Short Talk Session 5 "Machines in Energy"		
Chairman: Prof. Dr. Eleonora Guseinoviene		
09:30-09:45	Oscillating pulsating current synchronous drive and pulse power supply system	Valdas Jankunas; Audrius Senulis; Serhat Seker; Tahir Çetin Akıncı
09:45-10:00	Sizing inductors of linear generator for CAD	Dalila Lahouel
10:00-10:15	Research of permanent magnet generator with compensated reactance windings	Oleg Lyan; Eleonora Guseinoviene; Audrius Knolis
10:15-10:30	Comparison of cogging torques in two different axial flux	Halil Gör; Erol Kurt

	permanent magnet generators	
10:30-10:45	Z-source inverter for renewable energy systems	ibrahim Sefa; Necmi Altın; Saban Ozdemir
10:45-11:00 Coffee Break		
Short Talk Session 6 “Energy Control Systems”		
Chairman: Prof. Dr. Dimitrios Karamanis		
11:00-11:15	An experimental study of part load efficiency of a micro hydro turbine	Yousef Yassi
11:15-11:30	A dedicated design of a smart home energy management system	Fawzi Al-Naima; Hassanain Kareem
11:30-11:45	A proportional integral controller for a grid-connected renewable energy system	Mojgan Hojabri; Mehrdad Hojabri; Mohammad Soroush Soheilrad
11:45-12:00	Adaptive indoor electric power supply	Audrius Knolis; Lione Urmoniene; Valdas Kucinkas; Vasilij Djackov
12:00-12:15	Design of sun tracker system for solar energy applications	Hussain Akbar
12:15-12:30	Power management of hybrid fuel cell propulsion system for small UAV by using fuzzy logic controller	Baba Omar; Al Savvaris
12:30-13:45 CONFERENCE PHOTO and LUNCH		
Short Talk Session 7 “Modeling of Energy Systems”		
Chairman: Assoc. Prof. Dr. Mustafa Büyükata		
13:45-14:00	An optimization study of solar air heaters by using artificial bee colony optimization algorithm	Cihan Yıldırım; İbrahim Aydoğdu
14:00-14:15	Virtual power plant: The future of power delivery systems	Mahmoud Othman
14:15-14:30	Effect of metal doping on hydrogen hosting cage 12-atom Boron clusters: Density functional study of MB12Hn	Mustafa Büyükata; Ziya B. Güvenç
14:30-14:45	The performance of 0.5 h/t ratio wells turbine operating under unidirectional steady flow and bi-directional sinusoidal flow	Rahil Abdulhadi
14:45-15:00	Wind conversion chain model simulation with PI voltage regulation	Bourourou Fares
15:00-15:15	A new IEC fusion device design	Erol Kurt; Bekir Dursun
15:15-15:30	Energy and exergy analysis of an existing gas turbine	Serhat Karyeyen; Mustafa İlbaş
15:30-15:45 Coffee Break		
Short Talk Session 8 “Alternative Approaches to Energy Systems”		
Chairman: Assoc. Prof. Dr. Cihan Yıldırım		
15:45-16:00	A piezoelectric energy harvester generating energy in changeable wind speeds	Yunus UZUN; Erol KURT
16:00-16:15	Influence of mechanical load impedance parameters to resonance frequency of double-mass linear oscillating motor-compressor	Audrius Senulis; Eleonora Guseinoviene; Valdas Jankunas; Mindaugas Juska
16:15-16:30	Optimal management of electric energy railway systems with renewable energy integration	Antoio Sanches
16:30-16:45	Plasma facing materials in fusion: Thermal loads on tungsten	Nathan Lemahieu
LECTURE SESSION 1 Energy security in Lithuania: Challenges and opportunities		
16:45-18:45	Prof. Dr.Eng. Eleonora Guseinoviene	
18:45-19:15	Poster Session Evaluation by International Scientific Committee	
19:30 EWRES DINNER and PHOTO (with Turkish music)		
22 September 2013 Sunday		

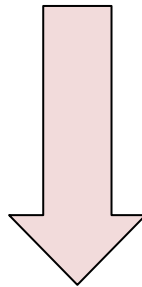
Invited Talk Session 3		
Chairman: Prof. Dr. Ahmed Zobaa		
09:00-09:30	Low radioactive fusion – A path to clean energy	Sergei Ryzhkov
Short Talk Session 9 “Special Session: Renewable Energy Developments and Applications”		
Chairman: Assoc. Prof. Dr. Youcef Soufi		
09:30-09:45	VRB model validation in RES applications	Luminita Barote; Corneliu Marinescu
09:45-10:00	Improvement of downlink throughput performance for IP packet transmissions in cellular mobile communications	Abubaker Khumsi
10:00-10:15	Design the planning of universal mobile telecommunications system	Amer Zarek
10:15-10:30	LQR based a UAV pitch controller system design	Mustafa Abuzeid
10:30-10:45	A power matching simulation of a solar Hydrogen production system	Amer Zarek
10:45-11:00 Coffee Break		
Short Talk Session 10 “Energy and environment”		
Chairman: Prof. Dr. Abdullrahman Maghrabi		
11:00-11:15	Energy performance of school buildings in Agrinio	Anna-Maria Koromila; Dimitrios Karamanis
11:15-11:30	Geothermal opportunities in Algeria	Mébrouk BENZIADA
11:30-11:45	Optical and thermal properties of hydrophilic mesoporous materials for solar cooling applications	Georgios Gorgolis; Spiros Krimpalis; Dimitrios Karamanis
11:45-12:00	High efficient induction heating system	Burak Akin
12:00-12:15	The comparison of heating and cooling curves of electrical property	Yasin Polat; Mehmet Ari; Yilmaz Dagdemir
12:15-12:30	Comparison of different DG interconnection technical guidelines and standards in power quality domain	Hamed Maleki
12:30-13:45 LUNCH		
Short Talk Session 11 “Thermodynamic and structural explorations in energy”		
Chairman: Assoc. Prof. Dr. Hakan Ateş		
13:45-14:00	Analysis of swirl generator inserted into a tube: Entropy resistance minimization	Alptug Yataganbaba; İrfan Kurtbas; Ali Kılıçarslan
14:00-14:15	Experimental study on a solar driven organic rankine cycle system	Jianzhong Song; Xiaosong Zhang; Shuhong Li; Qikuang Yao; Weiwei Gu
14:15-14:30	Methane steam reforming over Ni/Al ₂ O ₃ catalyst in monolithic reactor: Effects of preparation and processing condition	Farzad Bahadoran
14:30-14:45	The urban heat island effect and passive mitigation measures	Dimitrios Karamanis; Eftychios Vardoulakis
14:45-15:00	Current welding technologies in renewable energy systems	Hakan Ateş
15:00-15:30 Coffee Break		
15:30-15:45 Closing talk for the session of short-talks by Prof. Dr. Erol KURT		
LECTURE SESSION 2 Optimization of green energy utilization system using bifilar coil permanent magnet generator		
15:45-17:45	Dr. Audrius Senulis	
17:45-19:00	ERASMUS IP STUDENTS GROUP DYNAMICS & POSTERS	

POSTER SESSIONS (*)

ERASMUS IP PROGRAMME POSTERS (20-22 September 2013)		
P1	Preliminary simulation studies on the discharge phenomena in microelectronic gas discharge device (MGDD)	Evrin Tanrıverdi; Erol KURT; H. Hilal Kurt
P2	Simulation software as a teaching aid for operational amplifier applications	Amer Zarek
P3	Rain attenuation prediction using CCIR model	Amer Zarek
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- (*) - Since the Scientific Committee assigned for the poster review may have questions and Suggestions, please stand aside your poster at the poster session times.
- Please do not forget to get back your poster(s).
 - The preferred dimension for each poster should be 100 cm height and 60 cm width as also stated in web-site of the workshop.

LECTURES BELOW



20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25 Sep 2013	26-Sep	27 Sep	28-Sep	29-Sep
Short Talks* (w. Coffe Break during 3 days) (9:00-12:30)			9:00-11:00 Assoc. Prof. Çiğdem Yançın Göneç- Biogas recovery from anaerobic treatment of organic wastes	9:00-11:00 Prof. Dr. Ahmed F. Zohaa- Renewable Energy, Global Warming, and the Impact of Power Electronics	9:00-11:00 Dr. Mihai Opreescu- Modeling and emulation of the energy source (fuel cell model and photo voltaic cell model)	9:00-11:00 Assist. Prof. Dr. Emrah Özahi - Insulation and New Technologies	9:00-11:00 Prof. Dr. Süner ŞAHİN- Renewable Aspects of Fusion and Fusion Nuclear Energy	9:00-11:00 Dr. Geert Verdoornaghe - Prospects for nuclear fusion as a sustainable energy source	9:00-11:00 Assoc. Prof. Dr. Şevki Demirdağ - Modelling and Control of PMSC Based Wind Turbine
Short Talks* (w. Coffe Break during 3 days) (9:00-12:30)			11:15-12:30 Assoc. Prof. Dr. Hakan Ateş - Recent Trends in Welding Technologies for Renewable Energy Systems	11:15-12:30 Assist. Prof. Dr. Dimitrios Karamanis - Solar energy technologies for building integrated applications	11:15-12:30 Prof. Dr. Nicu Bizon- Energy harvesting from the renewable and green energy sources	11:15-12:30 Dr. Saqib Javed - Design and simulation of ground source heat pump systems	11:15-12:30 Dr. Hasim Altan - Energy Efficient Building Design	11:15-12:30 Asst. Prof. Dr. Nezhn Topaloglu - Vibration energy harvesting	11:15-12:30 Prof. Dr. Güngör Bal - Electric Vehicles and Standardisation

Lunches and Rest (12:30-13:45)

Short Talks* (w. Coffe Breaks) (13:30-17:30) (19:30 Welcome Cocktail)	Short Talks* (w. Coffe Break during 3 days) (13:30-16:30) 16:45-18:45 Lecture Sessions 1&2: Prof. Dr.Eng. Eleonora Guseinoviene and Dr. Audrius Semelis - "Energy security in Lithuania: Challenges and opportunities" and "Optimization of green energy utilization system using bifilar coil permanent magnet generator" (19:30 Conference Dinner on 21 Sep.)	13:45-14:30 Assoc. Prof. Dr. Hakan Ateş - Recent Trends in Welding Technologies for Renewable Energy Systems	13:45-14:30 Assist. Prof. Dr. Dimitrios Karamanis - Solar energy technologies for building integrated applications	13:45-14:30 Prof. Dr. Nicu Bizon- Energy harvesting from the renewable and green energy sources	13:45-14:30 Dr. Saqib Javed - Design and simulation of ground source heat pump systems	13:45-14:30 Dr. Hasim Altan - Energy Efficient Building Design	13:45-14:30 Asst. Prof. Dr. Nezhn Topaloglu - Vibration energy harvesting	13:45-14:30 Prof. Dr. Güngör Bal - Electric Vehicles and Standardisation
17:30-19:00 Posters' Evaluation and Group Dynamics Studies for ERASMUS IP students	14:45-16:45 Prof. Dr. Youcef Sauf - Current and future Development of Renewable energy sources in Algeria	14:45-16:45 Prof. Dr. Fawzi Al Nahma - The Management of Vast Solar Farm Via a Power Line Communication Modern Design	14:45-16:45 Prof. Dr. Erol KURT - Analyses and Measurements of the Permanent Magnet (PM) Wind Energy Generators	14:45-16:45 Prof. Dr. Marinescu - Stand alone and grid connected microgrids control	14:45-16:45 Dr. Burak Akın - Power Converters for Renewable Energy Applications	14:45-16:45 Prof. Dr. Taner Şengör - The Compact Processes Effectively Using of Solar Energy in Long Time Schedules	14:45-16:45 Discussions on the future perspectives of renewable energy	
	17:00-19:00 EXAM 1 and POSTER STUDY	17:00-19:00 EXAM 2 and POSTER STUDY	Cultural Tours	17:00-19:00 EXAM 3 and POSTER STUDY	17:00-19:00 Assoc. Prof. Dr. İbrahim SEFA general overview on the power electronics issues in wind energy and photovoltaic systems	17:00-19:00 EXAM 4 and POSTER STUDY	17:00-19:00 Closing Evaluations & Certification	