



International Congress
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22-24 July 2015
PARIS-FRANCE



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Wednesday, 22nd July 2015

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ISEP – School of Engineering, Polytechnic Institute of Porto, Portugal
- **Vahid Jabbari**
Chemistry Department
The University of Texas at El Paso (UTEP), USA
- **Vieira Ferreira, Luís PhD.**
Chemical Engineering Department
Lisbon Technical University, Portugal

Schedule	Main room	Room 1	Room 2
15h00-16h00	Documentation delivery		
16h00-16h15	Opening session		
16h15-17h00	Plenary talk Formation of particulate matter in biomass combustion by PhD, Mário Costa, Lisbon Technical University, Portugal		
17h00 – 18h15	ORAL COMMUNICATIONS (ENGLISH) Environment, Environment Engineering Solvent extraction for oil recovery from petroleum sludge using ultrasound and mechanical shaking , Guangji Hu, Jianbing Li, University of Northern British Columbia, Canada Fullerene aggregates on soils and river sediments from Santa Catarina (Brazil) , Esdras Filho, C. Ramos, B. Dutra, M.Oliveira, R. Kautzmann, La Sala University Center, Brazil Arsenic removal using iron-oxide modified quartz sand , S.Arikan, D.Dolgen, Dokuz Eylul University, Turkey Implementation of efficient irrigation management for a sustainable agriculture: IRRIMAN Life+ European Project , A. Molina-García, A. PérezPastor, R. Domingo, R. Torres-Sánchez, Polytechnic University of Cartagena, Spain	ORAL COMMUNICATIONS (ENGLISH) Renewable Energies Thermal analysis of wind turbine nacelle of 2.5 MW turbine at severe weather conditions , Tahir Yavuz, Kadir Nuri Tekin, Emre Koç, Baskent University, Turkey A performance assessment of a desalination unit driven by wind energy in Saudi Arabia , Morad Boumaaza, Emad Ali, Abdulhamid Ajbar, King Saud University, Saudi Arabia Direct CO2 capture from ambient air for power-to-gas renewable energy storage , J.V. Veselovskaya, V.S. Derevschikov, A.G. Okunev, Novosibirsk State University, Russia An intelligent control approach to home energy management under forecast uncertainties , Zhongyi Chen, Yan Zhang, Tao Zhang, National University of Defense Technology, China Thermodynamic model of Stirling engine considering convection heat transfer to working fluid , K. S.Ghumman, S. Sandhu, PEC University of Technology, India	ORAL COMMUNICATIONS (ENGLISH) Energetic Instalations / Renewable Energies Earth-air heat exchanger design for achieve energy saving in HVAC system of sample building , Farivar Fazelpour, Reza Asnaashari, Islamic Azad University—South Tehran Branch, Tehran, Iran Sustainability of nuclear energy: Panel data analyses , F. Ozkan, A.O. Peklas, O. Ozkan, Sakarya University, Turkey A unified analytical model for characterization of cable faults in VSC DC systems , J.J. Mesas, LL Monjo, L. Sainz, J. Pedra, ETSEIB, Spain Thermal drying of solid biomass residues , A. Al-Kassir, A. Macías-García, J. Ganán, Raúl Kassir-AlKarany, University of Extremadura, Spain Micro-generation renewable energy: A solution to energy problems South Asia , M. Asif, King Fahd University of Petroleum & Minerals, Saudi Arabia
18h15-18h45	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
18h45 – 20h00	ORAL COMMUNICATIONS (ENGLISH) Environment, Environment Engineering Impacts of suspended solids on aquatic ecosystems: case study of Eucalyptus globulus forest in Portugal , Paula Quinteiro, Marijn V. de Broek, Ana C. Dias, Bradley Ridoutt, Luis Arroja, University of Aveiro, Portugal Adsorption behaviors for sequestration of Anionic Surfactant (Linear Alkyl Benzene Sulphonic Acid, LABSA) from aqueous solution on the solid product(CHAR) obtained from the waste tyre rubber via Chemical Devulcanization , S. Balbay, C.Acikgoz, Bilecik Şeyh Edebali University, Turkey Buildings recovery during an emergency: the Ecological Footprint of its foundation reconstruction , Antonio Ferreira Sánchez, Mª Desirée Alba Rodríguez, Madelyn Marrero, University of Seville, Spain Influence of Green Roof on the energy performance of buildings in hot and humid climates , Abubakar S. Mahmoud, Mohammad Asif, King Fahd University of Petroleum Minerals KFUPM, Saudi Arabia Absorption of hydrophobic volatile organic compounds in ionic liquids and their biodegradation in multiphase reactors , A.S. Rodriguez Castillo, S.Guihéneuf, P-F. Biard, L. Paquin, A.Amrane, A. Couvert, National Superior School of Chemistry of Rennes, France	ORAL COMMUNICATIONS (ENGLISH) Materials Study on PID temperature control performance of a novel PTC material with room temperature Curie point , Wen-fong Cheng, Jia-liang Song, University of Science and Technology of China, China Nanoparticle size evaluation through Dynamic Light Scattering (DLS) technique in a nitrate salt doped with ceramic nanoparticles , B. Muñoz-Sánchez, J. Nieto-Maestre, I. Izarraguirre-Torres, A. García-Romero, Solar Energy Unit, Tecnalia Research and Innovation, Spain Transesterification of Palm Cooking Oil using Titanium-based Oxides , W. L. Tan, K.Y. Chew, N. H. H. Abu Bakar, M. Abu Bakar, University Sains Malaysia, Malaysia Production of biodiesel using sodium zirconate and silicate as heterogeneous catalysts , I. Romero-Ibarra, H. Pfeiffer, Metropolitan Autonomous University, Mexico Estimate of mechanical features for structural material with superficial image technic , Gamze Dogan, Ahmet Ozkis, Musa Hakan Arslan, Selcuk University, Turkey	ORAL COMMUNICATIONS (ENGLISH) Environment Education, Human Ecology Walkability assessment of MavişehirAlaybey coast region in Izmir, Turkey: Building, Green Area and Path Analyses , A. Kirimat, E. Paykoç, Yaşar University, Turkey Education for sustainable development: An exploratory study , Mousumi Roy, Aindrila Biswas, Manvendra Pratap Singh, Anpita Chakraborty, National Institute of Technology Durgapur, India Waste management of health services in units of emergency and emergency in University Hospital, São Paulo / Brazil , M.J.T.Nitsche, S.R.L.R.Olbrich, M.V.M.F.F.Alves, I. Godoy, A.E.Oliveira, C.G.Bueno, M.G. D'Avila, S.F.B.Fusco, M.R.Cirne, UNESP, Brazil Analysis of the impact of climatic factors on rice yield at different spatial and temporal scales in China (1961-2040) , Yingbin He, Weimin Cai, Mingjie Gao, Qiyou Luo, Jianping Li, Chinese Academy of Agricultural Sciences, China Individual Health Benefits of Renewable Energy Use , Resaz Ogun, Gulhane Medical Faculty, Turkey



Thursday, 23rd July 2015



Schedule	Main room	Room 1	Room 2
9h	<p>Plenary talk</p> <p>An introduction to Near Zero Carbon (NZC) Greenhouse Technology: A progress report on the pilot project in Arizona, USA by Ph.D. Ashoke Bose, Sustainable Energy & Agriculture Technology, USA</p>		
09h45– 10h45	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Environment. Environmental Engineering</p> <p>Correlation analysis for screening key parameters for fish canning wastewater characterization, R.O. Cristóvão, V.M.S. Pinto, A. Gonçalves, R.J.E. Martins, J.M. Loureiro, R.A.R. Boaventura, University of Porto, Portugal</p> <p>An energy-saving green production strategy in organic and amino acid sector towards business sustainability, Parimal Pal, National Institute of Technology Durgapur, India</p> <p>Evaluation of surface interactions between diverse molecular size fractions of humic acid and aniondoped TiO₂ by Excitation-Emission Matrix (EEM) fluorescence spectra, P. Akan, M. Bekbolet, Hacettepe University, Turkey</p> <p>Spanish legislation for use and management of sludges from wastewater treatment plants. Needs, challenges and opportunities, C.Morales Polo, M.M. Cledera Castro, B.Y. Moratilla Soria, University Pontificia de Comillas, Spain</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Renewable Energies</p> <p>Catalytic steam reforming of the aqueous phase of bio-oil, NM. Pouralamdari, J. Abedi, F. S. Azad, University of Calgary, Canada</p> <p>Design, manufacture and test of a solar powered car (first force) for transportation of governmental officers in Adiyaman city, Turkey, T. Koyuncu, University of Adiyaman, Turkey</p> <p>Adaptive predictive-DPC for a grid connected low-cost PV generator, H. Gholami-Khesht, M. Monfared, Ferdowsi University of Mashhad, Iran</p> <p>Bioaugmentation for high rate BioHydrogen production, Periyasamy Sivagurunathan, Anburajan Parthiban, Gopalakrishnan Kumar, Sang Hyoun Kim, Daegu University, Republic of Korea</p> <p>Modelling sustainable road transport strategies in Latvia, A. Barisa, M. Rosa, A. Blumberga, D. Blumberga, Riga Technical University, Latvia</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Computational Fluid Dynamics</p> <p>Numerical investigation of two-phase flow in fibrous porous media, A. Kudaikulov, C. Josserand, A. Kaltayev, AlFarabi Kazakh National University, Kazakhstan</p> <p>Modelling the impact of number of fin and material on the heatsink performance with CFD analysis, A.C. Turkmen, C.Celik, F. Yildiz, Kocaeli University, Turkey</p> <p>PIV investigation of flow structures in a multistage centrifugal pump impeller, M. H. Aksoy, Muammer Ozgoren, Osman Babayigit, Selcuk University, Turkey</p> <p>Numerical investigation of the wake flow of an ellipse cylinder for different angles of attack, Eyub Canli, Sercan Dogan, Muammer Ozgoren, Ozgur Solmaz, Gokhan Ozseker, Selcuk University, Turkey</p>
11h00-11h45	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
11h45 – 13h45	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Environment. Environmental Engineering</p> <p>The hydraulic river organization base to define the territories of sustainable communities in the high parts of the valleys in the South of Galicia (Spain), A. Santos, E. Seoane, J. C. Mancho, University of A Coruña, Spain</p> <p>Analysis and design of a Single Stage Single Switch Power Factor Corrected Converter, Bindu S J, C A Babu, School of Engineering CUSAT, India</p> <p>Combined process coupling an electrochemical pretreatment and a biological treatment – Application to the removal of 2,4-D and its commercial solution, U46D, J.M. Fontmorin, J. Siguie, F. Fourcade, F. Geneste, D. Floner, S. Huguet, A. Amrane, University of Rennes 1, France</p> <p>Different BMP test configurations for predicting biomethane potential. Similarities to a real anaerobic digester, C. Morales Polo, M.M. Cledera Castro, B.Y. Moratilla Soria, University Pontificia de Comillas, Spain</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Renewable Energies</p> <p>Possibilities of using waste from the production of peanut nibbles to produce biogas, K. Chamrádová, J. Rusin, K. A. Pryszcz, Kašáková, P. Vdovčík, VSB – Technical University of Ostrava, Czech Republic</p> <p>Modelling of a hybrid wind-diesel energy system with hydrogen product, Karim. Belmokhtar, Mamadou L. Doumbia, Kodjo Agbossou, M'hamed Hammoudi, Université du Québec à Trois-Rivières, Canada</p> <p>Microbial fuel cell-based technology for recovering electricity from the sediment accumulated on the riverbank of tidal river, N. Touch, T. Hibino, K.Tachiuchi, N. Kinjo, Hiroshima University, Japan</p> <p>Increasing the efficiency of solar collectors in dynamic conditions, J. Pekez, I.Palınkas, E.Desnica, Lj.Radovanovic, M. Lambić, University of Novi Sad, Serbia</p> <p>On the economic impacts from using forestry biomass for the cogeneration of heat and power in small CHP plants, M. Landry, Y. Gagnon, A. Leclerc, University of Moncton, Canada</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Computational Fluid Dynamics / Energetic and Environmental Project Management</p> <p>Numerical modeling and flow analysis of splitter blades effect on a centrifugal pump performance, Osman Babayigit, Muammer Ozgoren, Muharrem H. Aksoy, Osman Kocaaslan, Selcuk University, Turkey</p> <p>Numerical analysis on the microclimate within a novel plastic greenhouse considering of solar ray load effect, S. Phokha, J.M. Miao, National Pingtung University of Science and Technology, Taiwan</p> <p>Code comparison of numerical simulator software tools for sequestration of CO₂ in a Norwegian formation, K. Kurgyis, R. Manasipov, J. Mindel, Montanuniversitat Leoben, Austria</p> <p>Comparison of flow structures around circular and elliptical cilindres, Sercan Dogan, Eyub Canli, Muammer Ozgoren, Ozgur Solmaz, Gokhan Ozseker, Selcuk University, Turkey</p>

11h45 – 13h45	<p>Risk analysis of gas connectors, Oriehi Anyaiwe, Oakland University, USA</p> <p>Modelling approaches for irreducible water saturation and heterogeneities of the commercial Ashtart reservoir from the Gulf of Gabès, Tunisia, Fatma Taktak, Adel Rigane, Taoufik Boufares, Samir Kharbachi, Samir Bouaziz, University of Modern Sciences, United Arab Emirates</p> <p>Chemical treatment of acid mine drainage sludge with citric acid, oxalic acid, sodium carbonate and sodium bicarbonate, T.P Mashifana, F.Ntuli, F. Okonta, University of Johannesburg, South Africa</p> <p>Sales forecast of electric vehicles Antonio J. Naranjo Redondo European University of Madrid, Spain</p>	<p>Application of a Pt-Pd NanoComposite Polymer Electrolyte Membrane for Pure Hydrogen Production from Aqueous Ethanol, Sundar Pethaiah Sethu, Alison Subiantoro, Technical University Munich - Campus for Research Excellence and Technological Enterprise, Singapore</p> <p>Increasing the efficiency of solar collectors in dynamic conditions, J. Pekez, I.Palınkas, E.Desnica, Lj.Radovanovic, M. Lambić, University of Novi Sad, Serbia</p> <p>Effect of temperature on the gasification of olive bagasse particles, A. F. Almeida, M. S. Vieira, M.P. Neto, I. M. Pereira, A. M. Ribeiro, A. C. Ribeiro, R. M. Pilão, Porto Polytechnic Institute, Portugal</p>	<p>"Municipal Energy Passport" - analytical, planning and forecasting software tool for integrated management of municipal energy systems, V. Melikidze, K. Melikidze, G. Lekveishvili, Ivane Javakishvili Tbilisi State University, Georgia</p> <p>Implementation of efficient irrigation management for a sustainable agriculture: IRRIMAN Life+ European Project, A. Pérez-Pastor, R. Domingo, R. Torres-Sánchez, Polytechnic University of Cartagena, Spain</p> <p>Ecological footprint of dwelling recovery: Economical and environmental assessment, M^a Desirée Alba Rodríguez, Jaime Solís Guzmán, Rafael Lucas Ruiz, Madelyn Marrero, University of Sevilla, Spain</p>
13h45	LUNCH	LUNCH	LUNCH
15h-18h	TOURISTIC VISIT		



Friday, 24th July 2015

Schedule	Main room	Room 1	Room 2
09h30 – 11h00	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Environment. Environment Engineering</p> <p>Destiny of dangerous elements in agricultural soils adjoining in a coal power plant complex from Santa Catarina (Brazil), Esdras Filho, C. Ramos, B. Dutra, M. Oliveira, R. Kautzmann, La Sala University Center, Brazil</p> <p>Characterization of waste sludge containing boron, G. Kurtoğlu Akkaya, H. M. Akbin, M. S. Bilgili, H. Kılıç, Yıldız Technical University, Turkey</p> <p>Modelling of emulsified oil removals from wastewaters by electrocoagulation, A. Genç, Bulent Ecevit University, Turkey</p> <p>Extraction of a plant-based bioflocculant from okra with application in sludge dewatering, C.S. Lee, J. Robinson, E. Binner, M.F. Chong, R. Gomes, The University of Nottingham, UK</p> <p>Some problems related with electricity production using clean energy. A view about a part of the ALENTEJO region (South Portugal), M. R. Duque, University of Évora, Portugal</p> <p>Thickening of waste activated sludge with polymer and the impact of 24 hour lapse on the process, Yemisi Iylade, Jian Peng, University of Saskatchewan, Canada</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Renewable Energies</p> <p>Heating and cooling by using renewable resources, O. Bendaikha, S. Larbi, Center for the Development of Renewable Energies, Algeria</p> <p>Effect of double glazing on the performance of the ET200 solar thermal collector, N. Ihaddadene, R. Ihaddadene, A. Betka, University of Mohamed Boudiaf, Algeria</p> <p>Climate change and sustainable energy, Ibrahim Yuksel, Hasan Arman, I. Halil Demirel, Yıldız Technical University, Turkey</p> <p>Techno-economic comparative analysis of hybrid photovoltaic-diesel energy system without battery storage, Gabin Koucoi, Daniel Yamegueu, Yézouma, Coulibaly, Laboratory for Solar Energy and Energy Savings (LESEE), Burkina Faso</p> <p>Implications of a DG allocated rural indian distribution network: A case study based on complex network theory T. Chowdhury, A. Chakrabarti, C.K. Chanda Indian Institute of Engineering Science and Technology, India</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Materials / Energetic Installations</p> <p>Impact of voltage sags on DC bus voltage in unipolar LVDC systems, L. Monjo, J.J. Mesas, L. Sainz, J. Saura, J. Pedra, ETSEIB, Spain</p> <p>Synthesis of pristine and Mn-doped BiFeO₃ nanoparticles based polysaccharides, A. Aziz, N.H.M.Kaus, University Sains Malaysia, Malaysia</p> <p>Energy savings in buildings by means of water flow active envelope and ground source heat pump, F. del Ama Gonzalo, B. Moreno, Alfaisal University, Saudi Arabia</p> <p>Life prediction of the GaInP/GaAs/Ge triple-junction solar cells in space, Jieru Meng, Jing Feng, Quan Sun, Zhengqiang Pan, Tianyu Liu, National University of Defense Technology, China</p> <p>Nanostructured materials thin films obtained by spray pyrolysis for solid oxide fuel cells, M. F. García Sánchez, A. Benítez-Rico, G. Santana Rodríguez, M. Monroy-Peláez, M. Picquart, National Polytechnic Institute, Mexico</p> <p>Suitability of EN-GJS-500-74 cast iron as a material for manufacturing an engine block, J.J. Galán, N. Varela-Fernández, University of A Coruña, Spain</p>
11h00-11h45	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
11h45 – 13h45	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Environment. Environment Engineering</p> <p>The role of multiple stakeholders towards cleaner production in developing countries: A case study in Vietnam, Nguyen Hong Son, University of Tsukuba, Japan</p> <p>Harmful Algal Blooms (HAB) and Desalination in the Arabian Gulf, Mohamed A. Darwish, Hassan K. Abdulrahim, Ashraf S. Hassan, Basem Shomar, Qatar Environment and Energy Research Institute (QEERI), Qatar</p> <p>Absorption of hydrophobic volatile organic compounds in ionic liquids and their biodegradation in multiphase reactors, A.S. Rodríguez Castillo, S. Guibèneuf, P.-F. Biard, L. Paquin, A. Amrane, A. Couvert, National Superior School of Chemistry of Rennes, France</p> <p>Palladium loaded Beta zeolites for water purification from trichloroethene, I.I. Kamińska, D. Lisovtyskiy, S. Casale, A. Srebowata, S. Dzwigaj, Institute of Physical Chemistry, Poland</p> <p>Environmental evaluation of end-of-life alternatives for natural cork stoppers, M. Demertzi, A. Dias, L. Arroja, University of Aveiro, Portugal</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Renewable Energies / Materials</p> <p>Mathematical model and 3D modeling of cylindrical main rotor and conic gate rotor, R. Zhi, Y Wu, C. Ma, Beijing University of Technology, China</p> <p>Passive solar building design, M.T. Gencoglu, I. Turkoglu, Firat University, Turkey</p> <p>Application of Building Integrated Solar PV to improve urban sustainability: A case study from Saudi Arabia, H. Sawalha, M. Asif, King Fahd University of Petroleum & Minerals, Saudi Arabia</p> <p>Silica characterization and enrichment as sustainable rawmaterial, A. Kheloufi, E. Bobocliou, S. Anas, A. Kefaili, Research Center in semiconductors technologies for energetic, Algeria</p> <p>On-board State-of-charge monitoring of Lithium-ion battery packs considering alterable discharge cut-off voltage, Long Cheng, Quan Sun, Jing Feng, Zhengqiang Pan, National University of Defense Technology, China</p> <p>Feasibility of satisfying electrical energy needs with windphotovoltaic-battery hybrid power systems for a household in Qeshm Island, Iran, Farivar Fazelpour, Nima Soltani, Afshin Nazari, Fatemeh Ka, Islamic Azad University-South Tehran Branch, Iran</p>	<p>ORAL COMMUNICATIONS (ENGLISH)</p> <p>Renewable Energies</p> <p>Production of a new biofuel from olive mill wastewater by solar energy, Aiman Q. Jaradat, Sameh H. Gharabeh, Al-Hussein Bin Talal University, Jordan</p> <p>Study of rate dependence of impedance of lithium ion batteries, Xing Zhou, Long Cheng, Quan Sun, National University of Defense Technology, China</p> <p>Biodiesel production from Oleic Acid via Esterification in the presence of Solid Acid catalyst, S. Dechakhumwat, A. Luengnaruemitchai, Chulalongkorn University, Thailand</p> <p>Biological hydrogen production from food waste by using integrated dark and photo fermentation, ChengCheng Hu, Apostolos Giannis, Jing-Yuan Wang, Nanyang Technological University, Singapore</p> <p>Performance testing of a parabolic trough collector array, Ibrahim Halil Yilmaz, Hakan Hayta, Recep Yumrutaş, Mehmet Saif Söylemez, University of Gaziantep, Turkey</p> <p>Pyrolysis process for the treatment of food waste, B. Grycova, A. Pryszyk, M. Kaloc, VSB – Technical university of Ostrava, Czech Republic</p>



11h45 – 13h45	<p>Contribution of the atmospheric photochemical process to the aromatic quinones presence in PM_{2.5} in an urban area, A. Barradas Gimale, M.A. Murillo-Tovar, L. Hernández-Mena, A. López-López, CIATEJ, Mexico</p> <p>Implementation of the European Legislation in monitoring of traffic noise aimed at protecting human health in Serbia, E. Tersek, N. Ljubojev, Z. Mila, Lj. Radovanovic, Lakatus, I. D. Ivin, University of Novi Sad, Serbia</p>	<p>Applications used to decreasing the energy saving in the building, A. E. Kabeel, Ali M Almagar, Environmental Energy Engineering Consultants, Kingdom of Saudi Arabia</p> <p>Investigating the performance of water ballast tank coatings that have been subjected to accelerated, N Perera, E A Ortaño, A Guy, P S Leung, K T Tan Northumbria University, United Kingdom</p>	<p>New opportunities for using Tesla Powerwall Battery in the United States of America and Portugal, Sandy Rodrigues, Fábio Faria, Ashkan Ivaki, Nuno Cafofo, Xiaoju Chen, F. Morgado-Dias University of Madeira and Madeira Interactive Technologies Institute Funchal, Portugal</p> <p>The modeling and use of LPG on a low heat loss SI Engine, H. Hazar, H. Gul, Firat University, Turkey</p>
13h45-15h45	CLOSING COCKTAIL		

