



7th International Exergy, Energy and Environment Symposium (IEEES'7-2015)

UVHC, LAMIH UMR CNRS 8201, ENSIAME, Valenciennes, France (April 27-30, 2015)



PROGRAM

Program with plenary lectures, oral presentations in 4 parallel sessions - Poster sessions with 2 minutes oral presentations' for each poster (before posters' exhibition)

1 st Day: April 27, 2015					2 nd Day: April 28, 2015					3 rd Day: April 29, 2015					4 th Day: April 30, 2015				
Room 1	Room 2	Room 3	Room 4		Room 1	Room 2	Room 3	Room 4	Room 5	Room 1	Room 2	Room 3	Room 4		Room 1	Room 2	Room 3	Room 4	
08:00-09:00 Registrations					08:20-09:00 PL3										09:00-09:20				
09:00-09:20 Opening ceremony					09:00-09:40 PL4										09:20-09:40 Session C-7				
09:20-10:00 PL1					09:40-10:00 Session C-1					Session A-4					Session D-1				
10:00-10:40 PL2					10:00-10:20 Session C-1					Session A-4					Session D-1				
10:40-11:00 Coffee Break					10:20-10:40										10:00-10:20 Coffee Break				
11:00-11:40 Oral presentations: Room 2					10:40-11:00 Coffee Break										10:20-10:40 Coffee Break				
11:40-12:20 Oral presentations: Room 3					11:00-11:40 Oral presentations: Room 2										10:40-11:00 Session C-4				
12:20-13:40 Poster session : Exhibition Hall					11:40-12:20 Poster session : Exhibition Hall										11:20-11:40 Session A-5				
14:00-14:40 Lunch					12:20-13:40 Lunch										11:40-12:00 Session C-10				
14:40-15:00 KL 6					14:00-14:40 KL 5										12:00-13:30 Lunch				
15:00-15:20 Session C-8					14:40-15:00 KL 3										14:30-18:00 Social program: Visit of Valenciennes city				
15:20-15:40 Session A-1					15:00-15:20 Session C-3					Session A-6									
15:40-16:00 Session D-2					15:20-15:40 Session D-5					Session C-11									
16:00-16:20 Coffee Break					16:00-16:20 Coffee Break														
16:20-16:40					16:20-16:40														
16:40-17:00					16:40-17:00														
17:00-17:20 Session C-6					17:00-17:20 Session C-9					Session A-2									
17:20-17:40 Session FP7					17:20-17:40 Session A-2					Session D-4									
17:40-18:00 Session B-1					17:40-18:00					Session B-3									
18:00-18:20 Session B-2					18:00-18:20														
					19:30-23:30 Banquet (Optional) : La Gentilhommière (Artres)										19:00-20:30 Reception / Cocktail at Valenciennes town hall				

PL: Plenary Lecture	KL: Keynote Lecture
PL 1: Prof. Ibrahim DINCER	KL 1: Prof. Nicolas GALANIS
PL 2: Prof. Michel FEIDT	KL 3: Dr. Philip RUBINI
PL 3: Prof. Peter LUND	KL 5: Dr. Edwin Geo VARUVEL
PL 4: Prof. Jack LEGRAND	KL 6: Prof. Antonio VALERO

Internet wifi access:
Network: [Conference](#) **Password:** [ieees7-lj3](#)

Eduoam internet network is also available

Contact: Fethi ALOUI - Phone: +33 651 821 098

TOPIC A - FLUID MECHANICS - CFD

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
SESSION A-1			
V036	A06	Wafik Abassi, Fethi Aloui, Sassi Ben Nasrallah, Jack Legrand	Experimental Investigations of Taylor-Couette Flow Using PIV and Electrochemical Technique:
V297	A46	Mostafa Monfared, Ebrahim Shirani, Fethi Aloui, Mohammad Reza Salimpour	Numerical and Experimental Study on the Effects of Taylor Number on the Wavelength of the Couette-Taylor Flow
V336	A54	Emna Berrich, Fethi Aloui, Daniel Pierrat, Laurent Gros, Anthony Couzinet, Jack Legrand	Turbulent Flows Structures Crossing Conical Diffusers: Angle Effect Analysis Using PIV Technique and POD for Post-Processing
V273	A39	Boutheina Zallama, Leila Zili Ghedira, Sassi Ben Nasrallah	Forced Convection in a Cylinder Filled with Porous Medium, Including Viscous Dissipation Effects
SESSION A-2			
V196	A24	Mojtaba Tahani, Mohsen Moradi	Aerodynamic and Energy Analysis of an Industrial Wind Turbine
V277	A42	Ludovic Blanc, Jean-Luc Hanus, Mame William-Louis, Benjamin Le-Roux	Experimental and Numerical Investigations of the Characterization of Reflected Overpressures Around a Complex Structure
V227	A31	Yaniktepe Bulent, Ozalp Coskun, Sahin Besir, Cag Serkan	Experimental Investigation of Surface Flow Structure over Non-Slender Diamond Wing
V330	A49	Anthony Couzinet, Jérôme Ferrari, Laurent Gros, Christophe Vallet, Daniel Pierrat	Experimental Study and Numerical Modeling of Incompressible Flows in Safety Relief Valve:
V195	C39	M. Tahani, P. Ahmadi, N. Enadi, K. Rahmani, T. Sokhansafat, K. Keramati, S. Mirmahdian	Exergy Analysis of a Hybrid System Including a Solar Panel, Fuel Cell and Absorption Chiller
SESSION A-3			
V286	A44	Kaewku Cheranun, Promkotra Sarunya	Secondary Migration of Fang Crude Petroleum related to Volumetric Flow Rate
V162	A18	Bulutoglu Pelin Su, Koc Sinan, Avci Ahmet K.	Simulation of exhaust gas reforming of natural gas in a microchannel reactor
V240	A32	Mohamed Mahdi Belhaj Brahim, Mohamed Ali Mergheni, Jean-Charles Sautet, Sassi Ben Nasrallah	Experimental Investigations of the Effect of the Enrichment with Oxygen on the Stability of the Diffusion Flame from Burners with Separate Injections
SESSION A-4			
V276	A41	F. Bouzgarrou, F. Askri, S. Ben Nasrallah	Prediction of Heat and Mass Transfer within a Metal-Hydrogen Reactor Using the Lattice Boltzmann Method
V250	A36	Amine Terzi, Sadok Ben Jabrallah, Souad Harmand	Experimental Study of Heat and Mass Transfer for Liquid Film Evaporation Along a Vertical Plate Covered with a Porous Layer
V298	A47	Insaf Mehrez, Ramla Gheith, Fethi Aloui, Sassi Ben Nasrallah	Numerical and Dynamic Study of Flow Instabilities and Heat Transfer at a Backward Facing Step Using the Lattice Boltzmann Method
SESSION A-5			
V288	A51	Charmiyan Mahmoud, Azimian Ahmad Reza, Laurent Keirsbulck, Shirani Ebrahim, Fethi Aloui	Turbulent Plane Impinging Jet- Physical Insight and Turbulence Modelling
A071	A09	B. T. Kannan	Some measurements in multiple jets
V073	A10	D. K. RAKEND	Experimental investigations of thickness growth rate in mixing layers
SESSION A-6			
V190	A23	Salma Gharbi, Souad Harmand, Sadok Ben Jabrallah	Parametric study on thermal performance of PCM-heat sink used for electronic cooling
V158	A16	Afshar Hossein, Shams Mehrzad, Mousavi Nainian Seyed Mojtaba, Ahmadi Goodarz	Effect of Dispersed Nanoparticles on Thermophysical Properties of Nanofluid and Heat Transfer Coefficient
V159	A17	Radouane Elbahjaoui, Hamid El Qarnia	Modeling and numerical investigation of latent heat storage unit using Paraffin Wax P116
SESSION A-7			
V155	A52	Gianluca Montenegro, Gianluca D'Errico, Augusto Della Torre, Luca Cadei, Silvia Masi	Slug Catcher multiphase CFD modeling: Optimization and comparison with industrial standards
V216	A27	Mojtaba Tahani, Mohsen Moradi	Aerodynamic Investigation of a Horizontal Axis Wind Turbine Using CFD and Modified BEM Methods
V290	A45	Ibrahim Mabrouki, Zied Driss, Mohamed Salah Abid	Characteristic of Savonius Vertical Axis Rotor in Water Channel
SESSION A-8			
V169	A20	Shahidian AZADEH, Abbasi ZAHRA	Investigation of Effective Parameters on the Human Body Exergy and Energy Model
V170	A53	Shahidian AZADEH, Aayani ROOZBEH, Ghassemi MAJID	Numerical Investigation of Non-Newtonian Blood Effect on Acoustic Streaming
V222	A29	Hicham El Ferouali, Said Doubabi, Mohammed Kouhila, Naji Abdenouri	Modelling of Flat Plate and V-Corrugated Solar Air Heaters for Single and Counter Flow Operating Mode:
V249	A35	Poorghasemi Kamran, Khoshbakhti Saray Rahim, Bahlouli Keyvan	a New Reduced Chemical Kinetic Mechanism
SESSION EU-FP7-IRSES			
V198	A25	Houda Hachem, Ramla Gheith, Fethi Aloui, Sassi Ben Nasrallah, Meihong Wang	A CFD Analysis of the Air Flow Through the Stirling Engine's Singularities:
V278	A43	Ramla Gheith, Houda Hachem, Fethi Aloui, Sassi Ben Nasrallah	Experimental and Theoretical Investigations of Flows Inside a Gamma Stirling engine Regenerator
V263	A37	Rogelio Chovet, Fethi Aloui	Liquid Film Thickness: Study and Influence over Aqueous Foam Flow
V304	C49	Akeem K. Olaleye, Meihong Wang	Conventional and Advanced Exergy Analysis of Post-Combustion CO2 Capture Integrated with Supercritical Coal-Fired Power Plant
V039	B03	Boyang Xue, Yanmei Yu, Jian Chen	Process Simulation for CO2 Capture with Different Solvents
V274	B27	Xiaobo Luo, Meihong Wang	Optimal Operation of MEA-Based Post-Combustion Carbon Capture Process for Gas-Fired CCGT Power Plants

TOPIC B - CO2 capture - Environment

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
SESSION B-1			
V283	B28	Marcin Stec, Adam Tatarczuk, Lucyna Więclaw-Solny, Aleksander Krótki, Tomasz Spietz, Andrzej Wilk, Dariusz Śpiewak	Experimental Results of Split-Flow Modification for Post-Combustion CO2 Capture Process
V043	B04	Bilgin Atilla, Gülüm Mert	Effects of temperature and biodiesel fraction on densities of commercially available diesel fuel and its blends with the highest methyl ester yield corn oil biodiesel produced by using NaOH: Part I
V044	B05	Gülüm Mert, Bilgin Atilla	Effects of Temperature and Biodiesel Fraction on Dynamic Viscosities of Commercially Available Diesel Fuel and its Blends with the Highest Methyl Ester Yield Corn Oil Biodiesel Produced by Using KOH: Part II
V122	B13	Souad Zighmi, Mohamed Bilal Goudjil, Salah Eddine Bencheikh And Segni Ladjel	Biodiesel production by transesterification of recycled vegetable oils
V257	B26	Şahin Zehra, Orhan Durgun, Orhan N. Aksu	Experimental Investigation of n-Butanol/Diesel Fuel Blends and n-Butanol Fumigation-Evaluation of Engine Performance, Exhaust Emissions and Heat Release
V244	B23	Mojtab Tahani, Mohamad Hossein Ahmadi, Keayvan Keramati	The Effect of Air with Supplementary Oxygen on Power and Fuel Consumption of Spark-Ignition Engine
SESSION B-2			
V066	B06	Calvo Guiomar, Valero Alicia, Valero Antonio	Sankey and Grassmann diagrams for mineral trade in the EU-28
V316	B33	Pernebayeva Damira, Upadhyaya Hari, Prabhakara Bobbili	Experimental and Numerical Investigations of "Fabrication of TiO2 Compact Layer by the Spray Pyrolysis Deposition System for Dye-Sensitized Solar Cells"
V117	B11	Emna Berrich, Mohand Tazerout	Kinetic study of plastic wastes with and without catalysts
V254	B24	Saglam Hacer, Duzgunes Ertug	Effect of Ballast Water on Marine Ecosystem
V255	B25	Alkan Nigar, Alkan Ali, Eruz Coşkun	Determination of Metals in Water and Sediment samples of the Sürmene River, Turkey
SESSION B-3			
V080	B09	M. Mohamed Ibrahim, A. Ramesh	Experimental Analysis of Hydrogen Fuelled Homogeneous Charge Compression Ignition (HCCI) Engine
V079	B08	Vivegananth M., AshwinKanna K., Ramesh A.	Experimental Investigations on the effects of low compression ratio in a direct injection Diesel Engine
V328	B34	Şebnem Yılmaz Balaman, Hasan Selim	A Novel Approach to Local Level Design of Bioenergy Supply Chains Integrated with District Heating Systems
V329	B35	Sivalingam Murugan, Hariharan Sundaramoorthi, Govindan Nagarajan, Bohumil Horak	A comparative Study on Some Methods to Use Tyre Pyrolysis Oil as an Alternative Fuel in a DI Diesel Engine
V335	B36	S. Coss, V. Verda, C. Rebillard, O. Le Corre	Multi-Criteria Analysis of Wood Plant
V032	B02	Faroudja Mohellebi, Radia Yous	Comparative study of the adsorption of Nickel on a natural bentonite and on a Streptomyces rimosus dead biomass and on a Streptomyces rimosus dead biomass

TOPIC C - Energy - Exergy

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
SESSION C-1			
V156	C34	Augusto Della Torre, Gianluca Montenegro, Angelo Onorati, Tarcisio Cerr	A New Concept of Stirling Machine Based on Rotary Architecture
V062	C18	Thomas Bol, Toni Eger, Gábor Janiga, Rüdiger Schroth, Dominique Thévenin	Preliminary Numerical Investigations of Entropy Generation in Electric Machines Based on a Canonical Configuration
V175	C37	Mehmet Selçuk Mert, Mehmet Direk, Ümit Ünver, Fikret Yüksel, Mehmet İsmailoğlu	Exergetic Analysis of a Gas Turbine with Inlet Air Cooling System
SESSION C-2			
V040	C10	Hatem Ben Mâad, Amel Miled, Faouzi Askri, Sassi Ben Nasrallah	Effect of Thermal Conductivity of the Phase Change Material (PCM) on the Absorption Process of a Metal-Hydrogen Reactor (LaNi5-H2)
V051	C15	Mansureh Khaljani, Rahim Khoshbakhti Saray, Keyvan Bahlouli	Multi-objective Optimization of a Cogeneration of Power and Heat in a Combined Gas Turbine and organic Rankine cycle
V230	D25	Chunsheng Yang, Qiangqiang Cheng, Pinhua Lai, Jie Liu, Hongyu Guo	Data-Driven Modeling for Energy Consumption Estimation
SESSION C-3			
V009	C02	Marie Creyx, Eric Delacourt, Céline Morin, Sylvain Lalot, Bernard Desmet	Energetic and Exergetic Analysis of a Heat Exchanger Integrated in a Solid Biomass-Fuelled Micro-CHP System with an Ericsson Engine
V052	C16	Abdulrahman Almutairi, Pericles Pilidis, Nawaf Al-Mutawa	Exergetic and Environmental Analysis of 100 MW Intercooled Gas Turbine Engine
V171	C36	Ümit Ünver, Mehmet Selçuk Mert, Mehmet Direk, Fikret Yüksel, Muhsin Kılıç	Design of an Inlet Air Cooling System for a Gas-Turbine Power Plant
SESSION C-4			
V064	C19	Aicha Mabrouk, Jalel Labidi, Abdelaziz Rezik, Mohamed-Razak Jeday	Exergoeconomic Approaches
V151	C33	Zehra Özçelik	Exergetic Evaluation for Heat Exchanger Network in a Raw Petroleum Cracking Unit
V108	C25	Suha Orçun Mert, Utku Badak	Exergetic Simulation and Performance Assessment of 1-1 Shell and Tube Heat Exchangers
SESSION C-5			
V292	C29	Plamen Punov, Teodossi EVTIMOV, Radu Chiriac, Adrian Clenci, Quentin Danel, Georges Descombe	Progress in High Performances, Low emissions and Exergy Recovery in Internal Combustion Engine:
V160	C35	Pierre Marty, Jean-François Hébet, David Chalet, Philippe Corrignar	Exergy Analysis of Complex Ship Energy Systems
V048	C13	Suryan Abhilash, Kim Heuy Dong	A study on the Charge Discharge Cycle of a Compressed Hydrogen Tank for Automobiles
SESSION C-6			
V242	C45	Tomohiro Akiyama, Asami Kikuchi, Keisuke Abe, Noriyuki Okinaka	Thermodynamic Compass of Thermochemical Synthesis for Thermoelectric Fe2VAl, Together with Experimental Validation
V261	C46	Takahiro Nomura, and Tomohiro Akiyama	High-Temperature Latent Heat Storage Technology to Utilize Exergy of Solar Heat and Industrial Exhaust Heat
V291	C47	Hasan Ozcan and Ibrahim Dincer	Energetic and Exergetic Performance Comparisons of Various Flowsheet Options of Magnesium-Chlorine Cycle
V026	C06	Hedayati Ali, Le Corre Olivier, Lacarrière Bruno, Llorca Jord	Exergy and Energy Evaluation of Bio-ethanol Steam Reforming in a Catalytic Membrane Reactor
V110	C26	Suha Orçun Mert, Alper Reis	Parametric Exergetic Investigation of a Direct Formic Acid Fuel Cell System
SESSION C-7			
V027	C07	Ali Hedayati, Olivier Le Corre, Bruno Lacarrière, Jordi Llorca	Experimental and Modeling study of Catalytic Steam Reforming of Bio-ethanol over Pd-Rh/CeO2 in a Membrane Reactor
V314	C51	Fahmy Muthasim, Lee In-Gu	An Exergy Analysis of a Laboratory Scale Fast Pyrolysis Process Design
V005	C01	Tahir Abdul Hussain Ratlamwala and Ibrahim Dincer	Electrochemical, energy, exergy and exergoeconomic analyses of hybrid photocatalytic hydrogen production reactor for Cu-Cl Cycle
SESSION C-8			
V095	C22	S.F. Ahmed, M.M.K. Khan, M.T.O. Amanullah, M.G. Rasul, N.M.S. Hassan	Integrated Model of Horizontal Earth Pipe Cooling System for a Hot Humid Climate
V333	C57	Emna Berrich, Ali Fellah, Ammar Ben Brahim, Fethi Aloui, Michel Feid	Hierarchical Decomposition Thermodynamic Approach for the Study of Solar Absorption Refrigerators Performance
V105	C24	Muhammad Abid, T.A.H Ratlamwala, Ugur Atikol	Comparative Energy, Exergy and Environmental Analyses of Parabolic Trough Solar Thermal Power Plant Using Nanofluid
V150	C32	Yavuz Özçelik, Zehra Özçelik, Nazlı Yaşar Tunca	Modeling, Simulation and Optimization of Solar Assisted Absorption Cooling Systems
SESSION C-9			
V138	C31	Osuolale Funmilayo N., Jie Zhang	Exergetic Optimisation of Atmospheric and Vacuum Distillation System Based on Bootstrap Aggregated Neural Network Model
V115	C28	Yvain Canivet, Diogo Queiros-Conde, Lavinia Grosu	The Correlon – A multiscale Representation of Exergy
V334	C58	Emna Berrich, Ali Fellah, Ammar Ben Brahim, Fethi Aloui, Michel Feid	Thermodynamic Analysis of the Irreversibilities in Solar Absorption Refrigerator:
V010	C03	Rokni Masoud, Bellomare Filippo	LiBr Absorption Systems Integrated with High-Efficiency IGSG Plant
V201	C41	Kaveh Hanifi, Kourosh Javaherdeh, Mortaza Yari	Exergy and Exergoeconomic Analysis and Optimization of the Cogeneration - Cycle Under Solar Radiation Dynamic Model Using Genetic Algorithm
SESSION C-10 (D)			
V269	D33	Khanmohammadi Shoaib, Atashkari Kazem, Kouhi Kamali Ramin, Ahmadi Pouriz	Performance Assessment and Multi Objective Optimization of a Tri-generation System Using a Modified Biomass Gasification Mode
V323	D29	Yongjun Dong, Yang Zhao, Jianmei Chen, Mingqi Xu, Xueming Zhang, Jingfu Gu	Development and Application of a Simple and Reliable Power Regulator for Small-Scale Island Wind Turbine
V025	C05	Peyman Beikmohammadi, Alireza Rostamzadeh khosroshahi	Energy and Exergy Analysis of Tabriz Power Plant for Different Loads
V300	C48	T. Srinivas	Exergy Analysis for Energy Systems
SESSION C-11			
V045	C11	Ender Özden, İlker Tari	Energy and exergy analysis of a solar-hydrogen hybrid renewable energy system in Ankara, Turkey
V194	C38	Mehdi Mehrpooya, Mohammad Mehdi Moftakhari Sharifzadeh, Marc A. Roser	Thermodynamic Analysis of a Novel CO2 Based Power Cycle Using the Cold of LNG and Low-Temperature Solar Energy

Topic D: ENERGY STRATEGIES AND POLICIES

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
SESSION D-1			
V189	D18	Olfa Helal, Raouf Benrejeb, Béchir Chaouachi	Comparative Study of Two Integrated Solar Collectors with Symmetric and Asymmetric CPC Reflectors Based on a Ray Trace Analysis
V127	D08	Anuar Assamidanov, Nurbol Nogerbek, Luis Rojas-Solorzano	Technical and Economic Prefeasibility Analysis of Residential Solar PV System in South Kazakhstan
V256	D30	Sekuçoğlu Suphi Anil, Bali Tülin	Design and Economic Analysis of Photovoltaic Systems in Different Cities of Turkey
SESSION D-2			
V034	D02	Victor Trejo, Gabriela Diaz, Luis Rojas-Solorzano	Technical and Economic Prefeasibility Study of Mini-Hydro Power Plants in Venezuela. Case Study: El Valle River
V178	D16	Al-Mutairi Eid	Operating Oil Refinery Units Under Uncertainty: Thermodynamics and Economics Implications
V192	D19	Yılmaz Ceyhun, Kanoglu Mehmet, Abusoglu Aysegul	Thermoeconomic Optimization of Hydrogen Production and Liquefaction by Geothermal Power
V141	D12	Sara Benavides, Maria Bitosova, Javier De Gregorio, Aubin Welschbillig, Luis Rojas-Solorzano	Technical-Economic Assessment of Energy Efficiency Measures in a Mid-Size Industry
SESSION D-3			
V320	D38	Sayem Zafar, Ibrahim Dincer, Mohamed Gadalla	Testing and Analysis of R134a Clathrates with additives for cooling application
V213	D22	Oz M. E. U., Sogut M. Z., Karakoç T.H.	Indicators of Sustainability Energy Management Based on Energy Audit for Hotels
V251	D28	Pierre-Olivier Jandaud, Louis Lambourg, Souad Harmand	Aero-Thermal Optimization of a Heat Sink Using Variable Neighbourhood Search
SESSION D-4			
V050	C14	Mohamed Gadalla, Mohammad Saghafifar	Integration of Pulse Combustion in Air Bottoming Cycle Power Plants
V003	D01	Nizetić Sandro, Kizilkan Önder, Čoko Duje	Experimental performance analysis of an integrated air-conditioning split heat pump system for application in a Mediterranean climate
V223	D24	Guler Mehmet Oguz, Erdas Aslihan, Nalci Deniz, Ozcan Seyma, Akbulut Hatem	Sn/Graphene Binary Nanocomposite Anode Electrodes for High Performance Li-Ion Battery Applications
V038	D03	Chuah Yew Khoy And Chen Yu-Tsuen	A study of the Effects of External Environment and Driving Modes on Electric Automotive Air-Conditioning Load
V305	D35	Abdul Hai Alami, Camilia Aokal, Monadhel Jabar Alchadirchy	Experimental and numerical investigations of a Compressed Air Energy Storage (CAES) system as a wind energy storage option
SESSION D-5			
V107	D05	Souad Bouzid-Lagha And Yacine Matrouh	Optimization of Energy Cost Sea Water Desalination by Reverse Osmosis: Case of Bousmail Station in Algeria
V109	D06	Mert Suha Orcun, Özçelik Yavuz	Multi-Objective Optimization of Distillation Sequences Using a Genetic Based Algorithm
V317	D37	Boukhchana Yasmina, Fellah Ali, Ben Brahim Ammar	Modeling, Simulation and Optimization of an Irreversible Solar Absorption Cooling Plant in Transient Regime

Topic E: MEASUREMENTS IN EXERGY, ENERGY AND ENVIRONMENT PROCESSES

Paper Reference	Paper Reference in Authors proceedings		Paper Title
SESSION E-1			
V020	E02	M.H. Sadafi, S. González Ruiz, M.R. Vetrano, J. van Beeck, I. Jahn, J.-M. Buchlin, K. Hooman	On the influence of low-power laser source on the evaporation of single droplets: experimental and numerical approaches
V076	E06	Yavuz Selim Güçlü, İsmail Dabanlı, Eyüp Şişman, Zekai Şen	Improving of Angström-Prescott Model Using the Harmonic Analysis
V112	E08	Hossein Akbari, Ali Salavati-Zadeh, Ahmad Javaheri, Vahid Esfahanian, Hossein Ghomashi	In-cylinder Temperature and Equivalence Ratio Field and NOx Distribution Reconstruction Using Proper Orthogonal Decomposition Technique

Topic F: BUILDINGS

Paper Reference	Paper Reference in Authors proceedings		Paper Title
SESSION F-1			
V049	E03	Arjunan Pradeep, Suryan Abhilash, Kurian Sunish	Performance Analysis of Ceramic Composite Thermal Protection System Tiles
V042	F02	Olugbeminiyi Idowu, Toluwalope Ige, Nicole Legenski, Amin A. Mustafa, Luis Rojas-Solorzano	Technical and Economical Prefeasibility Study of a Solar Water Heating (SWH) System in an Apartment Building in Cape Town
V322	F05	A. Kaddour, S.M.A. Bekkouche	Natural Ventilation Around and Through Building: A Numerical Study

POSTER SESSION OF MONDAY 27th April

ROOM 2 - 11:00-11:40

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
V019	B01	Abbas Hadj Abbas, Hacini Messaoud, Aiad Lahcen	Wastes of oil drilling: treatment technical and their effectiveness
V067	B07	Fateev V., Kulygin V., Nikitin S., Poremskiy V., Ostrovskiy S., Glukhov A., Pushkarev A.	Plasma technologies for water electrolyzers
V121	B12	Souad Zighmi, Djamel Zerrouki, Mohamed Bilal Goudjil, Salah Eddine Bencheikh And Segni Ladjel	The valorization of Spirogyra algae's biomass, obtained from the region of Ouargla-Algeria, into a renewable biofuel
V133	B14	Mohamed Yamine Chelaghmia, Mouna Nacef, Abed Mohamed Affoune, Ilhem Djaghout	Study of ethanol and 2-propanol electrooxidation on activated graphite supported Pt and Pt-Ni in acidic medium
V148	B15	Hydaia Izza, Mourad Korichi	Effect of Surfactant on Selectivity in Extraction of Aromatic Hydrocarbons From Lub Oil
V181	B17	Hiba Zouaghi, Souad Harmand, Sadok Ben Jabrallah	Recovery of waste farm after methanization by evaporation on inclined plate
V183	B18	Aida Cherifa Ahmia, Fetta Danane, Rhiad Alloune, Rahma Bessah	Citrus colocythis oil as alternative fuel for biodiesel engine
V232	B22	Kadir Aydin, Çağrı Ün	Development of Solid Waste Management System for Adana Metropolitan Municipality
V309	B30	Fatiha Yettou, Boubekeur Azoui, Ali Malek, Narayan Lal Panwar, Amor Gama	Generating Temperature Maps of a Solar Receiver for a Domestic Parabolic Concentrator for Cooking Purposes Under Algerian Environment
V106	B10	A. K. Azad, M. G. Rasul, B. Giannangelo	Energy conversion from edible and nonedible source: Biodiesel for CI engine
V166	B16	A. K. Azad, M. G. Rasul, S. F. Ahmed	A study on energy and environmental management of petroleum industries in Bangladesh
V187	B19	Fetta Danane, Aida Cherifa Ahmia, Rhiad Alloune, Rahma Bessah	Regeneration of Waste Frying Oil for Biodiesel Production
V206	B20	Sabah Menia, Fatiha Lassoune, Hamou Tebibel, Abdallah Khellaf	Hydrogen Production from Methanol Electrolysis
V207	B21	Sabah Menia, Amina Abbaci, Noureddine Azouz	Regeneration of Peel of Peas (Pisum Sativum) after Zinc Adsorption
V310	B31	Z. Tigrine, H. Aburideh, M. Abbas, S.Hout, N. Kasbadji	Membrane Desalination Technology in Algeria: Reverse Osmosis for Coastal Areas
V004	E01	Imre Benkő	Mathematical Filtering Analysis of Infrared Images in Integrated-Circuit Techniques
V055	E04	Marzhan Kabiyeva, Dina Kaskina, Roland Bradshaw	Developing High Resolution Remote Sensing Technology Into an Advanced Knowledge Management System to Assess Small Scale Hydro-Power Potential in Kazakhstan
V102	E07	K. S. Biju, M. G. Jibukumar, Dr. C. Rajasekharan	EEG Analysis Using Wavelet Packet Transforms on Mean Energy and Mean Teager Energy with Artificial Neuro-Fuzzy System
V267	E09	Toufik Arrif, Adel Benchabane, Amor Gama, Hakim Merarda, Abdelfateh Belaid	Optical Simulation of Different Cavity Receivers Shape Used in Solar Tower Power Plant

ROOM3 - 11:00-11:40

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
V324	E10	Asilhan Sevinc Sirdas, Nilcan Akatas, Ercan Izgi	Improved wind speed prediction results by Artificial Neural Network Method
V308	B29	Sohret Yasin, Kaya Nevzet, Ozerdem M. Baris, Karakoc T. Hikmet	Contribution of Alternative Fuels to Aircraft Exhaust Gas Emission Reduction
V033	C08	Kahraman Coban, Yasin Sohret, C.Ozgur Colpan, T.Hikmet Karakoc	Exergy-Based Performance Evaluation of a Mini Class Gas Turbine
V018	C04	Sajjad Arefdehghani, Alireza Rostamzadeh Khosroshahi	The Effect of Ambient Temperature to Tabriz Power Plant Efficiency
V047	C12	Suryan Abhilash, Arjunan Pradeep, Kim Gyuwan, Kim Heuy Dong	Thermodynamic Analysis of Inlet Air Cooling System for a Centrifugal Compressor
V057	C17	Radhouane Ben Jemaa, Rami Mansouri, Ahmed Bellagi	Experimental Analysis and Thermodynamic Modeling of an Absorption-Diffusion Refrigerator
V085	C21	Süleyman Kağan Ayaz, Önder Altuntas, Emin Açıkkalp, T.Hikmet Karakoç	Exergy and Energy Analysis of an Aircraft Air Cycle Machine at Designated Altitude
V101	C23	Fathia Chouaibi, Jalel Belghaieb, Nejib Hajji	Waste Heat Recovery in a Sulfuric Acid Production Unit
V130	C30	Keyvan Bahloul, Khoshbakhti Rahim Saray	Thermoeconomic Multi-Objective Optimization of an Ammonia-Water Power/Cooling Cycle coupled with a HCCI Engine
V211	C43	M Ziya Sogut, T. Hikmet Karakoc, İsmail Ekmeççi	Assessment of Co2 Measurements Based on Exergetic Approach for Low Carbon Standards in Buildings
V212	C44	M. Ziya Sogut, Süleyman Ozkaynak, T. Hikmet Karakoc	Energetic and Exergetic Performance Assessment of a Marine Engine with Measurement of CO2 Emission
V035	C09	Kaya N., Turan Ö., Midilli A., Karakoç T.H.	Exergetic Sustainability Assessment of a HALE UAV Fuelled with Dodecene as a Representative for Kerosene Type Fuels
V325	C54	Edwin Geo Varuvel, Nadia Mrad, Mohand Tazerout, Fethi Aloui	Combustion Analysis of Bio Fuel Derived From Waste Fish Fat
V327	C55	Mohammad H. Ahmadi, Mohammad Ali Ahmadi, Milad Ashouri, F. Razie Astaraei, R. Ghasempour, Fethi Aloui	Performance Monitoring of Stirling Engine Using Least Squares Support Machine Technique
V312	C56	Hadi Ganjehsarabi, Ibrahim Dincer, Ali Gungor	Thermodynamic Performance Assessment and Comparison of Active Magnetic Regenerative and Conventional Refrigeration Systems
V114	C27	Selcuk Ekici, Kahraman Coban, Onder Altuntas, T. Hikmet Karakoc	Experimental and Numerical Investigations of a Small Turbojet Engine with the Aid of Exergy
V318	C52	Ata Chitsaz, Ali Saberi Mehr, Sed Mohammad Sed Mahmoudi, Mortaza Yari, Leyla Khani	Greenhouse Gas Emission & Thermodynamic Assessments of an Integrated Trigeneration System Based on a SOFC Driving a GAX Absorption Refrigeration System as a Subsystem
V197	C40	Mohamadhasan Shojaeefard, Keyvan Keramati, Mojtaba Tahanai, Alireza Veisi	3D Numerical Investigation of Ignition Timing Effects on the SI Engine exergy
V205	C42	Nihed Kilani, Tahar Khir, Ammar Ben Brahim	Influence of Operating Parameters on the Thermal Efficiency of Complexes Combined Cycle

POSTER SESSION OF TUESDAY 28th April

ROOM 2 - 11:00-11:40

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
V012	A02	Radmanesh Amir Reza, Abbaspour Madjid, Soltani Mohamad Reza	Unsteady Aerodynamic Analysis of Different Multi MW Horizontal Axis Wind Turbine Blade Profiles on SST-K- ω Model
V014	A03	Yangfan Li, HuaCai, Zhixing Yang, HaoXue, Chao Cheng, Ning Li	Productivity Analysis and Numerical Simulation for Fractured Wells in Unconventional Gas Reservoirs
V015	A04	Hua Cai, Guohua Zhang, Zhixing Yang, Yangfan Li	Study of Porous Flow Mechanism for Low Permeability Sandstone by Use of NMR
V023	A05	Rachid Bouchenafa, Rachid Saïm, Saïd Abboudi	Thermal and dynamic characteristics of an airflow in a channel provided with circular and triangular cavities
V046	A07	Raoudha Chaabane, Fouzi Askri, Abdelmajid Jemmi, Sassi Ben Nasrallah	Lattice Boltzmann method for 3-D flows
V054	A08	Abdelmajid Chehhat, Mohamed Si-Ameur, Boussad Boumeddane	Turbulent Air Flow Investigation through the Vaned Diffuser Turbocharger using CFD
V077	A11	Özgür Damla, Öztürk Ayşegül, Kahveci Kamil	Natural Convection Heat Transfer of Water-Based CuO and Water-Based Al ₂ O ₃ Nanofluids Through A Horizontal Plate
V081	A12	B R Binulal, Suryan Abhilash, Kochupillai Jayaraj	Analysis of Coriolis effect in a curved pipe conveying hydrogen using Timoshenko beam element
V089	A13	Belkhir Negrou, Soumia Rahmouni, Nouredine Settou, Nasreddine Chennouf	Inverse Design Method of Wind Turbine in Solar Chimney Power Plants Coupled with Geothermal Energy
V104	A14	Mohamed S. Elmefi, Ahmed M. Bofares	Design and Performance Testing of New blade for Horizontal Axis Wind Turbine
V143	A15	Narimene Merabet, Ammar Mahamdia	Experimental Studies of Two Immiscible Fluids and Free Surface Effects in Cylindrical Taylor-Couette Flows
V163	A19	Laila Khatra, Hamid Elqarnia	Enhancement of heat transfer during solidification in an internally finned rectangular enclosure
V172	A21	Salah Zouaoui, Aomar Ait Aider, Hassane Djebouri, Kamal Mohammedi And Sofiane Khelladi	Motion of a solid particle in a water flow inside a pipe
V184	A22	Sabrina Lecheheb, Amar Bouhallassa, Mohamed Laissaoui, Sofiane Bouaichaoui, Abderrahmane Hamidat	Numerical Modeling and Performance Optimization Study of a Cavity Receiver in Solar Tower
V200	A26	Chuanlong Xu, Xinyin Zhang, Zuerong Ding, Shimin Wang	Numerical and Experimental Investigation Into the Leakage and Jet From CO ₂ Transportation Pipelines
V220	A28	Abdallah Haouam, Maxence Bigerelle, Bachir Merzoug	Modeling Energetic Efficiency of Coil Annealing Using Hydrogen Gas
V225	A30	Djelloul Belkacemi, Boualem Laribi, Miloud Tahar Abbes	Parametric Numerical Study of Blood Flow Analysis in idealized Abdominal Aortic Aneurysms Geometries
V248	A34	Tahar Guermi, Nouredine Settou, Hasna Gualous	Experimental Investigations on Condensation of Steam in Microchannels
V275	A40	Stéphanie Cagin, Nachida Bourabaa, Eric Delacourt, Céline Morin, Xavier Fischer, Daniel Coutellier, Bertrand Carré, Sylvain Loumé	Scavenging Process Analysis in a 2-Stroke Engine by CFD Approach
V326	A48	Suner Mu, Salci S. Aydın, Yigit K. Suleyman	Hydrodynamics Design of a Tunnel Submarine with Dimension Analysis
V337	A55	Daniel Pierrat, Anthony Couzinet, Laurent Gros, Thierry Kunc, Emilie Jérôme, Antoine Foata	Experimental and Numerical Investigations to Evaluate the Performances of a New Heat Exchanger Design
V247	A33	Mohamed Mahloul, Ammar Mahamdia, Vaclav Sobolik	Experimental Investigations of the Spherical Taylor-Couette Flow

ROOM 3 - 11:00-11:40

Paper Reference	Paper Reference in proceedings	Authors	Paper Title
V059	D04	Adamu Victor, Ampofo Nana, Pramono Jati Ario Panggi, Tulabing Ryan, Rojas-Solorzano Luis	Technical-Economic Prefeasibility Assessment of an off-grid Mini-Hydro Power Plant for an Agribusiness Resort in Kaduna Nigeria
V120	D07	Arrouf Mohamed, Almi Med Fayçal	PV Genconnected to Domestic Three Phase Electrical Network
V136	D10	Çakir Uğur, Şahin Erol, Çomaklı Kemal, Çoğkez Kuş Ayşegül	Solar Calculations of Modified Arch (Semi-Spherical) Type Greenhouse System for Bayburt City
V147	D13	Saad Saoud Merwan, Abbassi Hadj Ahmed, Kermiche Saleh, Ouada Mahdi	Smart Simulator for Tracking the Global Maximum Power Peak of Photovoltaic Arrays Under Partial Shaded Conditions
V164	D14	Yoomak Suntiti, Ngaopitakkul Atthapol	Study and Analysis on Lighting Energy Management for Highway
V186	D17	Khairredine Allali, El Bahi Azzag	Ecological Analysis of a Wind-Diesel Hybrid Power System in the South Algeria
V199	D20	Uyzbayeva Aigerim, Tyo Valeriya, Sedov Artem	A case-study of energy modeling of a school building in Astana city (Kazakhstan)
V215	D23	Hossein Afshar, Esmail Khosroabadi, Mehdi Tajdari	Using a Porous Environment to Produce Radian Heat to Optimize Energy Consumption and Reduce Pollution in Heating the Furnaces
V258	D31	Ihssen Hamzaoui, Farid Bouchafaa, Abdel aziz Talha	Contribution to the Control Power of a Wind System with Storage System
V303	D34	Amina Gueridi, Abdallah Khellaf, Djaffar Semmar, Larbi Loukarfi	Study of a PV- Electrolyzer-Fuel Cell Hybrid System
V306	D36	A. Gama, C. Larbes, A. Malek, F. Yettou	Feasibility Study of a Novel One Axis Sun Tracking System with Reflector Displacement in Parabolic Trough Concentrator
V135	D09	Çomaklı Kemal, Çakir Uğur, Çoğkez Kuş Ayşegül, Şahin Erol	Contribution of the Cogeneration Systems to Environment and Sustainability
V139	D11	Malika Fekih, Mohamed Saighi	Estimation of Global Solar Radiation in Arid Climates in Algeria
V165	D15	Ananwattanaporn Santipont, Ngaopitakkul Atthapol, Jettanasen Chaivan, Pothisarn Chaichan, Leelajindakraierk Monthol	Influence of Wind Farm on Distribution System Current Characteristics during Fault Occurrence
V202	D21	Kaveh Hanifi, Kouroush Javaherdeh, Mortaza Yari	Exergoeconomic and Exergoenvironmental Analysis and Optimization of the Cogeneration Cycle Under Dynamic Solar Radiation Model Using Two Renewable Sources
V239	D26	Saleh Sani, Mohammed Ibrahim, Saleh Bashir, Lawan Taura	Estimation of Global Solar Radiation and Photovoltaic Panels Sizing for Solar Powering of Water Pumping Systems in Hadejia, Nigeria
V311	B32	Soumia Bechar, Djamel Zerrouki	Control of Cement Slurry Formulation for Oil Well in Critical Geological Layer Condition
V091	F03	Gülcan Özel, Emin Açıkkaalp, T. Hikmet Karakoc, Arif Hepbasli, Ahmet Aydın	Determining Optimum Insulation Thickness of a Building Wall using an Environmental Impact Approach
V131	F04	Mert Yelda, Saygın Nicel	Energy and Exergy Efficient Design of a Building Block based on Hybrid Solar Envelope Method
V021	F01	M. Faraji, M. El Alami, M. Najam, D. Saifaoui, M. Abid	Experimental Analysis of Thermal Comfort of Building Integrated Phase Change Materials