

Wednesday 12 June 2019

Session 7 – Part A (hall 10AC) HEAT PUMPS Chair: Prof. Renata Krzyżyńska, Prof. Marderos Ara Sayegh		Session 8 - Part A (hall 10D) INDUSTRIAL TECHNOLOGIES FOR ENVIRONEMENT II Chair: Prof. Peter Vrtič, Prof. Luca Montorsi	
09:00-09:15	Characteristics of Oder river water temperature for heat pump M. A. Sayegh, A. Żabnieńska-Góra	09:00-09:15	A novel use of hydrophobic membrane in a humidification-dehumidification desalination system D. Ahmad, T. De Chobot, H. Jouhara
09:15-09:30	The influence of the solar-ground heat pump system on the ground temperature in the boreholes and in their vicinity – study based on experimental data P. Rynkowski	09:15-09:30	Business models used in heat recovery applications in process industries. L. Ahmad, J. Malinauskaite, A. Chauhan, H. Jouhara
09:30-09:45	Perspectives on the use of geothermal heat pump systems to reduce low-emission in the health resort areas A. Szulc, B. Tomaszewska	09:30-09:45	Modelling and Computational Study of a Photovoltaic-Thermal System N. Khordeghah, H. Jouhara, S. P. Lester
09:45-10:00	Seasonal evaluation of heat pump system for building heating and ventilation – A case study A. Bugaj, M. Miniewicz	09:45-10:00	Methylene blue sorption to 300°C mixed municipal discarded material derived char J. Hoslett, H. Ghazal, H. Jouhara
10:00-10:15	Impact of location characteristics on renewable energy production for a group of buildings K. Szczerbak	10:00-10:15	Nitrate ions removal by adsorption and electro dialysis from the PV cells factory effluent F. D. Belkada, O. Kitous, O. Fellah, O. Bouchelaghem, N. Drouiche, N. Abdi, N. Ameri
10:15-10:30	The use of green walls and the impact on air quality and life standard M. Wesółowska, M. Laska	10:15-10:30	Air-to-air heat pump: Review of recent advances and future potential N. Serey, D. Ahmad, H. Jouhara
10:30 -10:50 Coffee Break			
Session 7 - Part B (hall 10AC) INDUSTRIAL TECHNOLOGIES FOR ENVIRONEMENT I Chair: Prof. Stanisław Kajl, Prof. Kazimierz Gaj		Session 8 - Part B (hall 10BD) INDUSTRIAL TECHNOLOGIES FOR ENVIRONEMENT III Chair: Prof. Barbara Widera, Prof. Janusz Wojtkowiak	
10:50-11:05	Heavy metal content in products from pyrolysis of waste tyres D. Czajczyńska, R. Krzyżyńska, H. Jouhara	10:50-11:05	Development of an experimental test rig for the pyrolysis of plastic residues and waste tires M. Milani, L. Montorsi, G. Storchi, M. Venturelli
11:05-11:20	Batch Pyrolysis of Cotton Stalks for Evaluation of Biochar Energy Potential R. Al Afif, S. S. Anayah, Ch. Pfeifer	11:05-11:20	Determination of Polycyclic aromatic hydrocarbons (PAHs) in Yerbataté herbal drink Ch. Nwankwo, S. Barton, H. Ghazal
11:20-11:35	Estimate of traffic energy consumption from vehicle fleet distribution forecast B. Luin, F. Al-Mansour, D. Šemrov	11:20-11:35	A new compact hydraulic propeller turbine for low heads. D. Barsi, M. Ubaldi, P. Zunino, R. Fink
11:35-11:50	Experimental investigations of the performance of a thermoacoustic electricity generator A. Hamood, A. Jaworski	11:35-11:50	The impact of adverse environmental factors on the occurrence and prevalence of diseases in the Republic of Dagestan T. F. Kosyreva, F. I. Astarkhanova, I. R. Astarkhanov, T. S. Astarkhanova, L. I. Alibalaeva, I. N. Osmanov
11:50-12:05	Numerical simulation of the Effect of Plate Spacing on Heat Transfer Characteristics within a Parallel-Plate Heat Exchanger in a Standing Wave Thermoacoustic System H. Huang, A. Jaworski	11:50-12:05	Long-wave radiation balance of the active surface in the south-west Poland K. Bryś, T. Bryś, A. Głogowski

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POSTER SESSION III (hall 114)

Chair:

Prof. Malgorzata Kabsch-Korbutowicz

Dr. Ana M. López-Sabirón

09:00-10:30

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| <p>41. Seasonal coefficient of performance of air-to-air heat pump and energy performance of a building in Poland
P. Kowalski, P. Szatański</p> <p>42. Analysis of annual energy consumption by a warehouse building
M. Besler, W. Cepiński, P. Kęskiewicz, M. Skrzycki</p> <p>43. Dual Media Thermocone (DMT) techno-economic interest for heat storage on the range 80°C -600°C- The SMARTREC project
S. Rougé, M. Chowdhury, F. Chowdhury</p> <p>44. Removal of quaternary ammonium compound in ion exchange process
A. Klimonda, I. Kowalska</p> <p>45. Alternative scenarios investigation of 1990..2016 CO₂ emission from Public Electricity and Heat Production sectors in Europe
E. Niemierka, P. Jadwiszczak</p> <p>46. Minimization of fan energy consumption in ventilation and (or) air-conditioning systems as an optimization calculus of variations
M. Karpuk</p> <p>47. Classification of saline water for irrigated agriculture using near infrared spectroscopy coupled with pattern recognition technique
R. Lapcharoensuk, J. Phuphanutada, P. Wongpromrat</p> <p>48. Study of Atrazine Adsorption Kinetics by Using an Activated Carbon Synthesised from Water Hyacinth
P. Deetae, P. Wongpromrat</p> <p>49. Influence of temperature and C:N ratio on nitrifying and denitrifying bacteria of biofilters treating wastewater from de-icing airport runways
A. Mielcarek, K. Ostrowska, J. Rodziejewicz, W. Janczukowicz, J. Struk-Sokolowska</p> <p>50. Purification of model biogas from toluene using deep eutectic solvents
E. Słupek, P. Makoś, J. Gębicki, A. Rogala</p> <p>51. Dimethyl ether (DME) as potential environmental friendly fuel
P. Makoś, E. Słupek, J. Sobczak, D. Zabrocki, J. Hupka, A. Rogala</p> <p>52. Analysis of the power extraction rate change for boreholes in time and in different heat load conditions
N. Fidorów-Kaprawy, E. Stefanowicz</p> <p>53. Universal unit for cooling and heating systems through the Maisotsenko Cycle
D. Pandelidis, A. Pacak, S. Anisimov</p> | <p>54. Influence of the building's heating energy demand profile on the results of the air/water heat pump energy efficiency simulation
M. Szulgowska-Zgrzywa, K. Piechurski</p> <p>55. Environmental and social effects of the change of heat sources on the example of a selected quarter of tenement houses in Wrocław
M. Szulgowska-Zgrzywa, M. Baborska-Narozny, K. Piechurski, E. Stefanowicz, A. Chmielewska, N. Fidorów-Kaprawy, M. Laska</p> <p>56. Study of physical and mechanical properties of additional materials on the recycled rubber structure during its disposal
I. R. Antypas, G. Kharmanda, A. Dyachenko, T. Savostina</p> <p>57. System-friendliness of PV-battery hybrids used by commercial consumers in a renewable power system
A. Kies, J. Jurasz, B. Schyska, B. Kaźmierczak</p> <p>58. Influence of ammonia on wet-limestone flue gas desulfurization process from coal-based power plant
T. Wypiór, R. Krzyżyńska</p> <p>59. Assessment of potential mutagenicity of dust air pollutants adsorbed on PM_{2.5} dust using strains of <i>S. typhimurium</i> TA98 and TA100
A. Trusz, H. Ghazal, K. Piekarska</p> <p>60. The features of stormwater treatment technology schemes of airports
A. Kurbatova, K. Mikhaylichenko, I. Vasilyuk</p> <p>61. Energy efficient environment in architecture
T. K. Samuratova, Z.E. Kaliyeva, M. Makhonov, Z.K. Yermekova</p> <p>62. Effect of CO₂ increase on ecological parameters of plant ecosystems in Central and South America countries
A. Tarko, A. Kurbatova, S. Llerena</p> <p>63. Long-term changes in air temperature, sunshine duration and wind speed in the context of renewables in Poland
F. A. Canales, P. Jadwiszczak, J. Jurasz, M. Wdowikowski, B. Kaźmierczak</p> <p>64. Evaluation of Zn- and Fe- rich organic coatings for corrosion protection and condensation performance on waste heat recovery surfaces
P. K. Pandis, S. Papaioannou, V. Siaperas, A. Terzopoulos, V. N. Stathopoulos</p> <p>65. The zero-energy store model
P. Zając</p> <p>66. Recovery of the agricultural water from hydrothermally treated digestate using membranes
H. Pawlak-Kruczek, A. Urbanowska, M. Kabsch-Korbutowicz, M. Wnukowski, Ł. Niedźwiedzki.</p> |
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12:05 – 13:00 Closing Ceremony of ASEE19 (Congres Centre – building D-20 , 8 Janiszewskiego Street, hall 10AC)

Prof. Hussam Jouhara Brunel University of London,

Prof. Evgeniy Shchesnyak, RUDN University of Moscow,

Prof. Jan Danielewicz, Wrocław University of Science and Technology.

13:00-14:30 Lunch