



INTERNATIONAL CONFERENCE ON

Chemical and Biochemical Engineering

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PARIS-FRANCE



INSTITUTO
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Scientific Program

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Schedule	Main room	Room 1	Room 2
8h30	Documentation delivery		
9h30	Opening session		
9h45	Plenary talk Removal of elemental Mercury over MnOx supported on TiO2 or Al2O3 regenerable sorbents by PhD, Stefano Cimino, Institute for Research on Combustion CNR, Italy		
10h30 – 11h30	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Performance on the recycling stability of ferrocene-tagged sphere for determination of glucose. E. Hasanoglu Ozkan, N. Kurnaz Yetim, N. Sari, Gazi University, Turkey Investigation of mixing characteristics of hybrid impeller stirred reactor using radiotracer approach. Noraishah Othman, National University of Malaysia, Malaysia Dispersion stability and magnetic properties of carbon encapsulated Ni and Fe nanoparticles prepared by levitational gas condensation (LGC). Y. R. Uhm, K. J. Son, Korea Atomic Energy research Institute (KAERI), South Korea Overview of the current needs of the risk assessment in the risk-informed decision making (RIDM) in process safety. H. Kasim, C. R. Che Hassan, M.D. Hamid, University of Malaya, Malaysia	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering Electrodeposition of copper oxide/polypyrrole/reduced grapheneoxide as a nonenzymatic glucose biosensor. P. Moozarm Nia, Pei Meng Woi, Y. Alias, University of Malaya, Malaysia β-galactosidase covalent immobilization over advanced silica supports for prebiotics production. I. M. González-Delgado, G. Morales, M.-J. López-Muñoz, Y. Segura, University King Juan Carlos, Spain Soil recovery in areas degraded by sand extraction: Sustainability indicators. M. A. A. Silva, D. C. Trevisan, E.J.B.Bastos, M. R. Aquino-Silva, University of Vale do Paraiba, Brazil Alterations of some heavy metals & trace elements levels in breast cancer. Parween A. Ismail, Araz M. Youusif, Edrees M. T. Harki, University Salahaddin-Erbil, Iraq	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Structural and antibacterial activity analyses of Arginine and Lysine homopeptides by a systematic proline scan. F. Guzman, M. Aróstica, R. Rojas, C. Ojeda, S. Marshall, L. Aguilar, P. Carvajal, Valparaíso Catholic University (PUCV), Chile Magnite H+ a green catalyst to produce biodegradable Amphiphilic PCL-PEG-PCL triblock copolimer. A. Harrane, Z. Draoua, M. Belbachir, University of Oran, Algeria Hydrogen from syntheticbio-oil through h "steam-iron" process. J. Plou, P. Durán, J. Herguido, J. A. Peña, Aragon Institute of Engineering Research (I3A), Spain Preparation of superhydrophobic sorbent powder for selective removal of oil from oil contaminated water. M. Patowary, K. Pathak, Institute of Technology Kharagpur, India
11h30-12h15	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
12h15 – 13h30	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Biomimetic flow control: microgels for shoaling and schooling. You-Jin Kim, Suyeong An, Seunghwan Jung, Harim Bae, Byoung Soo Kim, CheongCheon Lee, Kantappa Halake, Mallinath S, Birajdar, Hyun Ju Cho, Sang Won Chi, Jun Seok Kim, Jonghwi Lee, Chung-Ang University, Republic of Korea Modeling and simulation of low temperature water gas shift reactor. F. Shokry, Y. A. El-Tawil, A. S. Shehata, M. Ossman, M. Abd El-Falah, Pharos University, Egypt Zn/ZnO catalytic performance towards thermo chemical cycles of CO2/H2O to syngas. U. W. Hartley, T. Somchamni, V. Tongnan, University of Technology North Bangkok, Thailand A feasibility study of the technologies for deep ethane recovery from the gases produced in the southern fields of Iran. H. Najibi, M. Pishbini, E. Ahmadpour, M. Roham, Petroleum University of Technology, Iran Synthesis of hydroxyapatite-alginate composite: Methylene blue adsorption. T. Aslanov, D. Uzunoğlu, A. Ozer, Mersin University, Turkey	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering Development of microreactors with surface-immobilized ω transaminases for continuous synthesis of chiral amines. P. Žnidarič-Plazl, G. Stojković, A. Vogel, D. Bouwes, N. Miložič, University of Ljubljana, Slovenia Potential for using Azadirachta indica leaf extracts to control rice weevil (Sitophilus oryzae). J. López, J. Guerrero, D. Nabañez, J. Duque, Industrial University of Santander, Colombia Optimization of the reduction of carbon pollution from wastewater of paper industry by bioaugmentation. H. Djelal, Y. Lelievre, School of Environmental Professions, France Kinetic-based model of base-catalyzed biodiesel production process. L. M. S. Silva, N. S. Caetano, Porto Polytechnic Institute, Portugal Enhancement of dye removal potential of Spirulina platensis by high light treatment. R.A.Kepekci, F. Deniz, University of Gaziantep, Turkey	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Risk assessment for propane cooler in natural gas liquefaction plant. K. H. Ezzat, H. Farag, N. Kamal, Y. Ossaama, Alexandria University, Egypt Production of levulinic acid from lignocellulosis biomass: a Solvent Case Study. Le Cao Nhien, Nguyen Van Duc Long, Moonyong Lee, Yeungnam University, South Korea Anionic polymerization by an electron transfer process from a CdSe quantum dot-peryleneimide (PDI) system. Edina Rusen, Alexandra Mocanu, Leona Cristina Nistor, Piétriuc Hudhomme, Aurel Diacon, University Politehnica of Bucharest, Romania Thermal stability and hazardous characteristics analysis for 2'-Azobis(2,4-dimethylvaleronitrile). Y.T. Tsai, C.M. Shu, University of Science and Technology, Taiwan Assessment of dust explosion with adipic acid and p-terephthalic acid in powder resin process. Sheng-Yi Lin, YunTing Tsai, Kuang-Hua Hstueh, Tzu-Hao Lin, Chi-Min Shu, National Yunlin University of Science and Technology, Taiwan
13h30	LUNCH	LUNCH	LUNCH

Schedule	Main room	Room 1	Room 2
9h	Plenary talk Heavy metals in the air and the dusts in a Natural History Museum by Ph.D. Lionel Estel, INSA of Rouen, France		
9h45 – 11h00	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Investigation of a fixed-bed reactor for the calcination of CaCO₃ by the simultaneous reduction of CuO with a fuel gas, J. R. Fernández, J. M. Alarcón, J. C. Abanades, Spanish Research Council, INCAR-CSIC, Spain Oxidative desulfurization of organosulfur compounds in a model mixture of scrap tire pyrolysis oil, L. Gómez-Ibañez, V. Rojas-García, University Industrial of Santander, Colombia Modeling of chemical and biochemical processes at the micro scale, I. Plazl, University of Ljubljana, Slovenia Comparative study of treatment processes of chlorpyrifos ethyl and toxicities assessment, Hayet Djilal, N. Mustapha, Hedi Ben Mansour, School of Environmental Professions, France	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering A new mathematical procedure to calculate the periodic steady state of sequencing batch reactors for biological wastewater treatment, A. Rasheed, D. Dionisi, A. Majumder, University of Aberdeen, United Kingdom Novel nanoparticle toxicity assay using microfluidic animal chip, Jin Ho Kim, Kyung Mi Lee, Seung Hwan Lee, Sung Jim Hong, Sang Kuk Chung, Tai Hyun Park, Shin Sik Choi, Myongji University, Korea Non-destructive and real-time food freshness monitoring system, Kyung Mi Lee, Jin Ho Kim, Hyang Sook Chun, Shin Sik Choi, Myongji University, Republic of Korea Removal of heavy metals from aqueous solutions using keratin biomasses, Helan Zhang, Fernando Carrillo, Montserrat López-Mesas, Cristina Palet, Autonomous University of Barcelona, Spain Improving flavonoid bioaccessibility using an edible oil-based lipid nanoparticle for oral delivery, Choongjin Ban, So Jeong Park, Seokwon Lim, Young Jin Choi Seoul National University, Korea	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Thermal valorization of date stones and palm stalks, I. Abed, F. Zagrouba, M. Tazerout, Institute of Science and Technology of the Environment, Tunisia Investigation p53 and miR-146a rs2910164 polymorphisms in cervical lesion, Hossein Rassi, Marjan Moradi fard, Masoud Houshmand, Islamic Azad University, Iran Production and characterization of a biosurfactant from a thermophilic bacterium by free and immobilized cells, S. Ferhat, R. Eddoueouda, R. Alouaoui, S. Atsammia, N. Baifi, F. Rahem, N. Moulai Mostefa, A. Badis, University Yahia FARES, Algeria Modelling of Hydrodynamics in an Ultrasonic Batch Reactor, M. Ajmal, G. Fieg, University of Technology Hamburg/Harburg, Germany High Throughput and Selective Enrichment of histidine-tagged enzymes with ni-doped magnetic mesoporous, Hyesun Lee, Jeong-Ho Chang, Korea Institute of Ceramic Engineering and Technology, Korea
11h00-11h45	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
11h45 – 12h45	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Removal of trace iron from fly ash deviced desilication solution, Xiaohuan Wang, Baodong Wang, Yongfeng Xiao, Xiaoting Liu, Gengzhi Yu, Lijun Zhao, Qi Sun, National Institute of Clean-and-Low-Carbon Energy, China Kinetic insights into the thermal conversion of monoterpenoids as synthetic method for the synthesis of fine Chemicals, J. Leiner, A. Stolle, Friedrich-Schiller University Jena, Germany CO₂ to Syngas: Metal oxides on stainless steel 316L for Micro-channel reactor application, U. W. Harley, N. Ngoenthong, K. Cheenachorn, T. Somchamni, Sirindhorn International Thai-German Graduate School of Engineering (TGGGS), Thailand	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering Ultrasensitive Glutathione-transferase activity detection by Glutathione-Triggered "Off-On" release strategy based on surface enhanced raman scattering, Ying Wang, Weiping Qian, Southeast University, China A biocompatible method for prevent of α-amylase agglomeration in aqueous solution, Seyed Mohsen Dehnavi, Gholamreza Pazuki, Manouchehr Vossoughi, Sharif University of Technology, Iran Study on Living Bioreactors in Nature, Rameshaiah Gowdara Narayanappa, B M S College of Engineering, India Comparative triterpenoids biosynthesis characteristics in submerged cultures of <i>Inonotus obliquus</i> in optimized medium and basic medium, X. Q. Xu, X. Zhang, C. Chen, C. Xiang, SCI-Tech University, China	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Performance of Draft Conical Spouted Beds technology for anaerobic digestion process of sewage sludge, M. J. San José, S. Alvarez, University of Basque Country, Spain Simultaneous optimization of multistage membrane systems for CO₂ capture from a coal fired power plant, Ana M. Arias, Miguel C. Mussati, Nicolas J. Scenna, Sergio F. Mussati, Technological National University, Argentina The effect of Sb2O3/BDPE ratio on the flame retardancy and PhysicoMechanical properties of EPDM Elastomer, S. Cavusoglu, E. Akyol M. Oner, Yildiz Technical University, Turkey
12h45	LUNCH	LUNCH	LUNCH
15h-18h	TOURISTIC VISIT		

Schedule	Main room	Room 1	Room 2
9h15-10h30	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering SELSAUM, a code for modelling saltbrine equilibrium in natural saline hydro-geochemical Systems, Ghanem Aymana, Bouhila Rachidaa, University of Tunis El Manar, Tunisia Kinetic modelling and mechanism study for selective esterification of Glycerol with lauric acid using 12-Tungstunstophopic acid post impregnated SBA-15, P. Y. Hoo, A.Z. Abdullah, University Sains Malaysia, Malaysia Removal of contaminants from textile wastewater through the use of porous alumina membranes doped with silver nanoparticles, Kasia Scuto Silva, Carlos A. Paskoimas, J. Heriberto O. Nascimento, Federal University of Rio Grande do Norte, Brazil Synthesis of the well defined surface species [(≡Si-O)W(=O)Me₃] by direct methylation of [(≡Si-O)W(=O)Cl₃], a catalyst for cycloalkane metathesis and transformation of ethylene to propylene, Ali Hamieh, Yin Chen, Safwat Abdel-Azeim, Edy Abouhamad, Serena Goh, Manoja Samantary, Raju Dey, Luigi Cavallo, Jean-Marie Basset, King Abdullah University of Science and Technology (KAUST), Saudi Arabia Experimental study and modelling of phase behavior of palm oil transesterification with supercritical methanol, W. Sakdasri, R. Sawangkeaw, Y. Medina-Gonzalez, S. Camy, J.S. Condoret, S. Ngamprasertsith, Chulalongkorn University, Thailand	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering Studies on volumetric oxygen coefficient during enzymatic hydrolysis of chitin using filamentous fungi - <i>Trichoderma harzianum</i>, Y K Suneetha, G. N. Rameshaiah, B M S College of Engineering, India Flux decay modelling in an ultrafiltration membrane bioreactor, during the synthesis of galactooligosaccharides, A. Córdova, C. Astudillo, C. Vera, C. Guerrero, A. Illanes, Catholic University of Valparaiso, Chile Resin microspheres decorated by Au nanoparticle: synthesis and application in detection of lung cancer A549 cells, Li Li, Wenbo Lu, Weiping Qian, Southeast University, China Experimental estimation of unmeasured inputs in anaerobic wastewater treatment processes, V. Alcaraz-González, E. A. Jáuregui-Medina, H. O. Méndez-Acosta, V. González-Álvarez, J. P. García-Sandoval, J. P. Steyer, University of Guadalajara-CUCEI, Mexico The possible presence of natural β-D-glucosidase inhibitors in Jujube leaf extract, Youngje Jo, Seokwon Lim, Young Jin Choi Seoul National University, Korea	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Levulinic acid production using solidacid catalysis, Ilian Guzmán, Arkaitz Heras, M ^a Belén Güemez, Jesús Requies, José Fco. Cambra, UPV/EHU, Spain Assessment of wheat straw pretreatment for oils, dyes and heavy metals adsorption, D. Sidiras, F. Batzias, Chryssa Chandrinou, Maria Bidikoudi, Nikos Boukos, Polycarpos Falaras, Michael Fardis, George Apostolopoulos, University Piraeus, Greece Molecular simulation study of drugpolymer interaction on the stabilization of amorphous solid dispersion, Yin Yani, Panjat Kanaujia, Pui Shan Chow, Institute of Chemical & Engineering Sciences, Singapore Non-isothermal reactive gas absorption: Generalized model, bifurcation and application to industrial systems, Abdullah A. Shaikh, Nabeel S. Abco-Ghander, King Fahd University of Petroleum & Minerals, Saudi Arabia 2D modelling and simulation of the diffusion of ternary mixture in Stefan tube, Sivaramakrishna Burela, Ravi R., Indian Institute of Technology Madras, India
10h30-11h15	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION	Coffee-break POSTERS SESSION
11h15 – 12h15	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Performance evaluation of latent heat energy storage in horizontal shell-and finned tube for solar application, S. Paria, A. J. Jarrahi, S. Baradaran, A. A. D. Sarhan, S. N. Kazi, University of Malaya, Malaysia One-pot reductive amination of aldehydes with nitroarenes over Au/Al₂O₃ catalyst in continuous flow reactor, A. L. Nuzhdin, E. A. Artukha, S. Yu. Zaytsev, P. E. Plyusnin, Y. V. Shubin, G. A. Bukhtiyarova, V. I. Bukhtiyarov, Russian Academy of Sciences, Russia Synthesis of oil based polymer clay nanocomposite using renewable source, A.T. Erçiyes, Y. Bayram, E. Akyol, Istanbul Technical University, Turkey Preparation of pyrolytic carbon over inorganic oxides and their use as sorbents for artificial wastewater, D. Vardivel, E. Mandelli, A. Spallini, F. Maraschi, M. Sturini, V. Bellani, A. Buttafava, D. Dondi, University of Pavia, Italy	ORAL COMMUNICATIONS (ENGLISH) Biochemical Engineering Drug dosing optimization strategies based on the model predictive control framework, H. Sarinveis, P. Sopasakis, S. Ntouskas, E. Anagnostopoulou, Ch. Chomenidis, National Technical University of Athens, Greece Integrated dual process for the production of Methyl Isobutyl Ketone and Isopropyl Alcohol, A. A. Al-Rabiah, King Saud University, Saudi Arabia Thermochromic and Superhydrophobic PLA Fibers: Characterization nanostructural, J.H. O. Nascimento, K.K.S. Silva, I.O. Silva, J. Neves, UFRN/Natal-Brazil	ORAL COMMUNICATIONS (ENGLISH) Chemical Engineering Magnetorheology of Core-shell structured Carbonyl Iron/ Polystyrene foam microparticles suspension with enhanced stability, Wei Huan Chuah, Sangsook Han, Yongsok Seo, Seoul National University, Korea Kinetic study of the indirect electrooxidation of azo reactive dyes, V. LópezGrimau, M. Pepió, C. Gutiérrez-Bouzán, Polytechnic University of Catalunya, Spain Comparison of Chitosan coated fly ash and activated carbon for the removal of Cr(VI) ions from aqueous solution, S. Edebali, Selcuk University, Turkey
12h15-14h	CLOSING COCKTAIL		