

TECHNICAL PROGRAM

Chemical Reaction Engineering XI

Green Chemical Reactor Engineering

August 26 - 31, 2007

EUSKALDUNA CONFERENCE CENTER

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Conference Themes:

- **Theme I:** Green Chemistry and Environmental Reaction Engineering.
- **Theme II:** Fuel cells. Operation and feed pretreatment technologies.
- **Theme III:** Multifunctional-Microstructured Reaction Engineering.
- **Theme IV:** Novel Experimental Reactors and Sensor Technologies.
- **Theme V:** Nanochemical Reaction Engineering.
- **Theme VI:** Molecular Modeling in Chemical Reaction Engineering
- **Theme VII:** Reactor Engineering for Biomass Conversion and Hydrogen Production.

Sunday August 26, 2007

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| 16:00 –18:00 | <i>Registration at Euskalduna Centre</i> |
| 20:30 | <i>Reception at Nervion Hotel</i> |
| 21:00-22:30 | <i>Dinner at Nervion Hotel</i> |

Monday August 27, 2007

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| 09:00-09:30 | <i>Conference Welcome and Overview</i> Hugo de Lasa , Conference Co-Chair Barbara Hickernell , Engineering Conference International Liaison |
| | Session I Room A Session Co-Chairs: Javier Bilbao, Universidad del Pais Vasco; Hugo de Lasa, University of Western Onario, Canada |
| 09:30 - 10:20 | TOWARDS SUSTAINABLE ENERGY SYSTEMS- THE ROLE OF FLUIDIZED BED REACTORS FOR CONVERSION OF SOLID FUELS Authors: Filip Johnsson , Nicolas Berguerand , Anders Lyngfelt , Henrik Thunman Affiliation: Chalmers University, Sweden |
| 10:20 – 10:30 | <i>Discussion Period – Questions and Answers</i> |
| 10:30 -11:20 | MULTI-SCALE SIMULATION OF DISPERSED MULTI-PHASE FLOWS Authors: N.G. Deen , M. van Sint Annaland and J.A.M. Kuipers Affiliation: University of Twente, The Netherlands |
| 11:20 – 11:30 | <i>Discussion Period – Questions and Answers</i> |
| 11:30 – 12:00 | <i>Coffee Break</i> |
| | Sessions II and III Advances in Chemical Reaction Engineering Room A Session Chairs: Peter Heidebrecht, Max-Planck Institute, Germany, Bing Chen, University Collage London, England |
| 12:00 – 12:15 | OAREI-177 SOLID-STATE KINETICS OF CO MODIFIED NI/AL₂O₃ OXYGEN CARRIER INVOLVED IN A CHEMICAL-LOOPING COMBUSTION PROCESSES Mohammad M. Hossain , The University of Western Ontario, Chemical Reaction Engineering Center, London, Ontario, N6A 5B9, London; T: 1-519-664-2111 ex. 88357, F: 1- 519-661-3498, mhossai4@uwo.ca Kelly E. Sedor, Chemical Reaction Engineering Center; The University of Western Ontario Hugo I. de Lasa, Chemical Reaction Engineering Center; The University of Western Ontario |

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| 12:15 – 12:30 | <p>OARE2-4 USING AN EXTERNAL SIDE REACTOR SYSTEM IN THE TOLUENE DISPROPORTIONATION PROCESS</p> <p><u>M.J. Hughes</u>, University of Cape Town, Department of Chemical Engineering, University of Cape Town, Private Bag, Rondebosch, Western Cape, 7701, South Africa; T: +27 21 650 5524, F: +27 21 650 4501, Michael.Hughes@uct.ac.za</p> <p>K.P. Möller, University of Cape Town</p> | |
| 12:30 – 12:45 | <p>OARE3-39 ENHANCED MICROSTRUCTURED REACTOR PERFORMANCE UNDER FORCED TEMPERATURE OSCILLATIONS</p> <p><u>M. Luther</u>, Institute for Microprocess Engineering IMVT, Forschungszentrum Karlsruhe; Hermann-von-Helmholtz-Platz 1, Eggenstein-Leopoldshafen, 76344, Germany; T: 00497247826657, F: 00497247823186, martin.luther@imvt.fzk.de</p> <p>J.J. Brandner, Institute for Microprocess Engineering IMVT, Forschungszentrum Karlsruhe, 76344 Eggenstein-Leopoldshafen, Germany</p> <p>L. Kiwi-Minsker, École Polytechnique Fédérale de Lausanne, Institute of Chemical Science and Engineering, LGRC, 1015 Lausanne, Switzerland</p> <p>A. Renken, École Polytechnique Fédérale de Lausanne, Institute of Chemical Science and Engineering, LGRC, 1015 Lausanne, Switzerland</p> <p>K. Schubert, Institute for Microprocess Engineering IMVT, Forschungszentrum Karlsruhe, 76344 Eggenstein-Leopoldshafen, Germany</p> | |
| 12:45 – 13:00 | <p>OARE4-75 COMPARISON OF ACETYLENE SOOT AND TWO DIFFERENT CARBON BLACKS: REACTIVITY TO OXYGEN AND NO</p> <p><u>Teresa Mendiara</u>, University of Zaragoza; C/María de Luna, 3. Torres Quevedo Building., Zaragoza, Zaragoza, 50018, Spain; T: 976 761880, F: 976 761879, T.Mendiara@unizar.es</p> <p>M.U.Alzueta, A. Millera, R.Bilbao,</p> | |
| 13:00 – 13:15 | <p>OARE5-126 INNOVATIONS IN A REACTOR DESIGN TO DEVELOP COMPLEX REACTIONS</p> <p><u>Mier, Diana</u>, Departamento de Ingeniería Química. Universidad del País Vasco. P.O.Box: 644, Bilbao, Vizcaya, 48080, Spain; T: +34-94-6015501, F: +34-94-6013500, mierdiana@hotmail.com</p> <p>Aguayo, A.T., Atutxa, A., Gayubo, A.G., Bilbao, J., Departamento de Ingeniería Química. Universidad del País Vasco.</p> | |
| 13:15 – 14:30 | <p>Lunch Room in Euskalduna Conference Center</p> | |
| 14:30 - 16:00 | <p>Ad hoc Session and/or Free Time</p> | |
| 16:00 - 18:00 | <p>Session IV Multiphase Reactors Room A Session Co-Chairs: Martin Olazar, Universidad del País Vasco, Norma Amadeo, Universidad de Buenos Aires Argentina</p> | <p>Session V Reaction Engineering Room B Session Co-Chairs: Rafael Yescas, Universidad Michoacana, Mexico, Khaled Belkacemi, Universite Laval, Canada</p> |

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| <p>16:00 - 16:15</p> | <p>OMR1-12 HYDROCRACKING OF FISCHER-TROPSCH DERIVED WAX : A TWO PHASE REACTOR MODEL</p> <p><u>Klaus Möller</u>, Department of Chemical Engineering, University of Cape Town; Private bag, Rondebosch, Western Cape, 7701, South Africa, T: 27 21 650 2520, F: 27 21 650 4051, klaus.moller@uct.ac.za</p> <p>Carlo Accolla, C*change Centre of Excellence in Catalysis, Department of Chemical Engineering, University of Cape Town</p> | <p>ORE1-13 A METHOD FOR SELECTING ROBUST KINETIC MODELS ON NOISY DATA</p> <p><u>Cayle Sharrock</u>, Sasol Technology/University of Cape Town; New Chemical Engineering Building, University of Cape Town, Rondebosch, Cape Town, 7700, South Africa; T: +27 83 556 9472, F: +27 86 503 0343, shrcay001@uct.ac.za</p> <p>Roelof Coetzer, Sasol Technology</p> |
| <p>16:15 - 16:30</p> | <p>OMR2-148 CATALYTIC PRODUCTION OF CARBON NANOTUBES IN A SWIRLED FLUID CHEMICAL VAPOUR DEPOSITION REACTOR</p> <p><u>Sunny E. Ivyuke</u>, University of the Witwatersrand, 1 Jan Smut, Braamfontein, Johannesburg, Gauteng, 2050, South Africa; T: +27 (0)11 7177594, F: +27 (0)11 4031471, sunny.ivyuke@wits.ac.za</p> <p>Pienaar, H.C.vZ, Vaal University of Technology</p> <p>Abdulkareem, A.S, University of the Witwatersrand</p> <p>Afolabi, A. S, University of the Witwatersrand</p> | <p>ORE2-64 MODEL BASED ANALYSIS OF A CYCLIC WATER GAS SHIFT REACTOR</p> <p><u>Christoph Hertel</u>, Max-Planck-Institute Magdeburg; Sandtorstrasse 1, Magdeburg, 39106, Germany; T: +49(0)391 6110-285, F: +49(0)391 6110-545, hertel@mpi-magdeburg.mpg.de</p> <p>Peter Heidebrecht, Max-Planck-Institute Magdeburg</p> <p>Kai Sundmacher, Max-Planck-Institute Magdeburg</p> |
| <p>16:30 - 16:45</p> | <p>OMR3-32 EXPERIMENTAL INVESTIGATION OF A ROTATING FLUIDIZED BED IN A STATIC GEOMETRY</p> <p>Juray De Wilde, Université catholique de Louvain</p> <p><u>Ali Habibi</u>, Université catholique de Louvain - UCL, Department of Material and Process – IMAP; Place Sainte Barbe, 2, Louvain-la-Neuve, Brabant wallon, B - 1348, Belgium; T: +32 (10) 47.24.88, F: 003210474028, habibi@imap.ucl.ac.be</p> <p>Guy B. Marin, Ghent University</p> <p>Geraldine J. Heynderickx, Ghent University</p> <p>Axel de Broqueville, Inventor</p> | <p>ORE3-66 A SIMULATED MOVING BED REACTOR FOR SEPARATIVE CO OXIDATION FROM H₂/CO MIXTURE</p> <p><u>Kaori Kimura</u>, Department of Chemical Engineering, Tokyo Institute of Technology; O-okayama 2-12-1, Meguro-ku, Tokyo, 152-8552, Japan; T: +81-3-5734-2883, F: +81-3-5734-2883, taida@chemeng.titech.ac.jp</p> <p>Takanori Yotsumoto, Department of Chemical Engineering, Tokyo Institute of Technology</p> <p>Ratanaporn Yuangsawad, Department of Chemical Engineering, King Mongkut Institute of Technology</p> <p>Takashi Aida, Department of Chemical Engineering, Tokyo Institute of Technology</p> |
| <p>16:45 - 17:00</p> | <p>OMR4-160 HYDRODYNAMIC MODELS IN PACKED BED CATALYTIC REACTORS OF LOW TUBE-TO-PARTICLE DIAMETER RATIO</p> <p><u>C. O. Castillo-Araiza</u>, Universidad Autónoma Metropolitana-Iztapalapa; Av. San Rafael Atlixco 186, Col. Vicentina, C.P 09340, México, D.F., México, Iztapalapa, 09340, Mexico; T: 01(55)5804</p> | <p>ORE4-85 THE MICROREACTOR AS A TOOL FOR DIRECT MEASUREMENT OF THE THICKNESS OF THE CATALYST LAYER FREE OF DIFFUSIONAL LIMITATIONS</p> <p><u>Natasha Dropka</u>, Leibniz-Institut für Katalyse e.V.(branch Berlin, former ACA); Richard-Willstätter-Str.12, Berlin, 12489, Germany; T: +49 30 6392 4456, F: +49 30 6392</p> |

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| | <p>4648, F: 01(55)5804 4900, coca@xanum.uam.mx</p> <p>F. López-Isunza, Universidad Autónoma Metropolitana-Iztapalapa</p> | <p>4454, dropka@aca-berlin.de</p> <p>Uwe Kuerschner, Leibniz-Institut für Katalyse e.V.(branch Berlin, former ACA)</p> <p>Hermann Ehwald, Leibniz-Institut für Katalyse e.V.(branch Berlin, former ACA)</p> <p>Heiner Lieske, Leibniz-Institut für Katalyse e.V.(branch Berlin, former ACA)</p> <p>Andreas Martin, Leibniz-Institut für Katalyse e.V.(branch Berlin, former ACA)</p> |
| 17:00 - 17:15 | <p>OMR5-133 MASS TRANSFER AND THERMAL CRACKING KINETICS DURING THE COKING OF ATHABASCA RESIDUES</p> <p><u>Mohamed Ali</u>, Department of Chemical and Materials Engineering, University of Alberta; 536 CME Building, Edmonton, Alberta, T6G 2G6, Canada; T: (780)492-6619, F: (780)492-2881, mohamed.ali@ualberta.ca</p> <p>Ramin Radmanesh, Department of Chemical and Materials Engineering, University of Alberta</p> <p>Murray R. Gray, Department of Chemical and Materials Engineering, University of Alberta</p> <p>Edward Chan, Syncrude Canada Ltd., Edmonton Research Centre</p> | <p>ORE5-111 HYDROCONVERSION OF 2-METHYLNAPHTHALENE OVER PT/MORDENITE CATALYSTS. KINETIC MODEL BASED ON THE SINGLE-EVENT CONCEPT</p> <p><u>Mario Guillermo Villaseñor Pedraza</u>, Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo; Edificio M. Ciudad Universitaria., Morelia, Michoacán, 58060, México; T: +52-443-3273584, F: +52-443-3167176, memo_chipo@yahoo.com.mx</p> <p>Horacio González Rodríguez, Omar Surisadai Castillo, Rafael Maya-Yescas, Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo</p> <p>Juan Carlos Chavarría, Jorge Ramírez, UNICAT. Departamento de Ingeniería Química. Facultad de Química. UNAM</p> |
| 17:30-20:00 | <p>Session VI Posters/Social Time Includes in addition to all the oral presentations of Sessions II, III, IV and V-Multiphase Reactors and Reaction Engineering the following contributions</p> | |
| | <p>PMR1-17 TOWARD UNDERSTANDING THE INFLUENCE OF DISTRIBUTOR DESIGN ON FLUIDIZATION QUALITY IN GAS-SOLID FLUIDIZED BEDS</p> <p><u>Zheng Chunlan</u>, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing); No. 18 Fuxue Rd, Changping, Beijing, 102249, China; T: 0086-10-89733939, F: 0086-10-69724721, kaizhang@cup.edu.cn</p> <p>Wu Xuehui, China University of Petroleum (Beijing)</p> <p>Liu Wendong, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> <p>Zhang Kai, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> | |
| | <p>PMR2-16 CFD SIMULATION OF FLUID DYNAMICS IN A 2D GAS-SOLID JETTING FLUIDIZED BED</p> <p><u>Wang Qicheng</u>, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing); No. 18 Fuxue Rd, Changping, Beijing, 102249, China T: 0086-10-89733939, F: 0086-10-69724721, kaizhang@cup.edu.cn</p> <p>Zhang Kai, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> | |

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| | Brandani Stefano, Department of Chemical Engineering, University College London, |
| | <p>PMR3-34 MINIMUM SPOUTING VELOCITY IN CONICAL SPOUTED BEDS WITH A DRAFT TUBE</p> <p>María J. San José, Universidad del Pais Vasco; Apartado 644, Bilbao, Vizcaya, 48080, Spain; T: 94 601 5362, F: 94 601 3500, mariajose.sanjose@ehu.es</p> <p>Sonia Alvarez, Universidad del Pais Vasco</p> <p>Alvaro Ortiz de Salazar, Universidad del Pais Vasco</p> <p>Alberto Morales, Universidad del Pais Vasco</p> <p>Javier Bilbao, Universidad del Pais Vasco</p> |
| | <p>PMR4-35 OPERATING CONDITIONS OF SPOUTED BEDS WITH A DRAFT TUBE</p> <p>Sonia Álvarez, Universidad del Pais Vasco; Apartado 644, Bilbao, Vizcaya, 48080, Spain; T: 94 601 5362, F: 94 601 3500, mariajose.sanjose@ehu.es</p> <p>María J. San José, Universidad del Pais Vasco</p> <p>Alberto Morales, Universidad del Pais Vasco</p> <p>Alvaro Ortiz de Salazar, Universidad del Pais Vasco</p> <p>Martin Olazar, Universidad del Pais Vasco</p> |
| | <p>PMR5-76 INFLUENCE OF BED ATTRITION IN A CONICAL SPOUTED BED</p> <p>A. R. Fernández, J. Makibar, I. Alava, L. Diaz, F. Cueva, Ikerlan; Arizmendiarieta, Arrasate, Gipuzkoa, 146, España; T: +34 943 712400, F: +34 943 796944, arfernandez@ikerlan.es</p> <p>M. Olazar, R. Aguado, UPV-EHU</p> |
| | <p>PMR6-121 PROPANE OXYDATIVE DEHYDROGENATION OVER NANO MOLYBDENUM-BASED CATALYTIC MATERIAL</p> <p>S. M. Al-Zahrani, King Saud University; Chemical Eng. Dept., P.O.Box 800, Riyadh, Riyadh, 11421, Saudi Arabia; T: +96614676873, F: +96614678770, szahrani@ksu.edu.sa</p> |
| | <p>PMR7-137 GRANULATION OF NITRIFYING SLUDGE IN AN AIR PULSATING SBR</p> <p>Marisol Belmonte-Soto, Department of Chemical Engineering. School of Engineering, University of Santiago de Compostela; Rua Lope Gómez de Marzoa s/n, Santiago de Compostela, A Coruña, E-15782, Spain; T: + 34 981 563100x16779, F: + 34 981 528050, eganusmc@usc.es</p> <p>Gustavo Ciudad, University of the Border</p> <p>Amaya Franco, University of Santiago de Compostela</p> <p>Anuska Mosquera-Corral, University of Santiago de Compostela</p> <p>José Luis Campos, University of Santiago de Compostela</p> |

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| | <p>PMR8-191 BUBBLE FORMATION IN A FORCED LOOP REACTOR</p> <p><u><i>Ali Fadavi</i></u>, Ilam university, P.O. Box 69315-516, Ilam, Iran; T: +98 841 2228059, F: +98 841 2227015, a_fadavi@yahoo.com</p> |
| | <p>PRE1-1 MATHEMATICAL MODELING AND EXPERIMENTAL OF INSTANTENEOUS REACTION IN A FALLING FILM REACTOR</p> <p><u><i>Saba A. Ghani</i></u>, jkyj hjgtyr; Iraq-</p> <p>Salah Al- Din - University of Tikrit -Chemical Eng. Dept., Tikrit, Tikrit, 44545212148787, Iraq T: 94124122012455, F: 87787542145, salywal_1970@yahoo.com</p> |
| | <p>PRE2-38 CONTROLLED SYNTHESIS OF ALUMINA NANOPARTICLES IN A REACTOR WITH SELF-IMPINGING PLASMA JETS</p> <p><u><i>Andrei Kolesnikov</i></u>, Tshwane University of Technology; Private Bag X680, Pretoria, Gauteng, 0001, South Africa; T: 12-3826342, F: 12-3826275, KolesnikovA@tut.ac.za</p> <p>Nikolay Alekseev, Institute of Metallurgy RAN</p> |
| | <p>PRE3-65 NOVEL ELECTROCHEMICAL REACTOR BASED ON POROUS SEMICONDUCTOR BIPOLAR ELECTRODE</p> <p><u><i>Debora Fino</i></u>, Politecnico di Torino; Cso. Duca degli Abruzzi 24, Turin, Turin, 10139, Italy; T: + 39 011 564 4710, F: + 39 011 564 4699, debora.fino@polito.it</p> <p>Josè Caroca, Carlos Carlesi Jara, Guido Saracco, Paolo Spinelli, Politecnico di Torino</p> |
| | <p>PRE4-70 THE STEP-BY-STEP RAPID MIXING AND HEATING REACTION SYSTEM FOR ORGANIC SYNTHESIS</p> <p><u><i>Hajime Kawanami</i></u>, National Institute of Advanced Science and Technology (AIST); 4-2-1 Nigatake, Miyagino-ku, Sendai, Miyagi, 983-8551, Japan; T: +81-22-237-2023, F: +81-22-237-5215, h-kawanami@aist.go.jp</p> <p>Keiichiro Matsushima, Hokkaido Industrial Research Institute</p> <p>Masahiro Sato, National Institute of Advanced Science and Technology (AIST)</p> <p>Yutaka Ikushima, National Institute of Advanced Science and Technology (AIST)</p> |
| | <p>PRE5-74 FRACTIONATION OF RICE HUSKS AUTOHYDROLYSIS LIQUORS BY ENZYMATIC HYDROLYSIS COUPLED TO ULTRAFILTRATION</p> <p><u><i>María Jesús González-Muñoz</i></u>, University of Vigo (Campus Ourense); As Lagoas, Ourense, Ourense, 32004, Spain; T: +34 988387075, F: +34 988387001, mjgm@uvigo.es</p> <p>Herminia Domínguez, University of Vigo (Campus Ourense)</p> <p>Juan Carlos Parajó, University of Vigo (Campus Ourense)</p> |
| | <p>PRE6-87 KINETIC EVALUATION OF METHANE-CARBON DIOXIDE REFORMING PROCESS BASED ON THE REACTION STEPS</p> |

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| | <p><u>Cesar A. Moraes de Abreu</u>, Federal University of Pernambuco ; Rua Tereza Melia s/n, Recife, Pernambuco, 50740-521, Brazil; T: 55.81 21268901, F: 55.81 21267289, cesar@ufpe.br</p> <p>Douglas A, Santos, Federal University of Pernambuco</p> <p>José A. Pacífico dos Santos, Federal University of Pernambuco</p> <p>Renato T. Souto, Federal University of Pernambuco</p> <p>Augusto Knoechelmann, Federal University of Pernambuco</p> |
| | <p>PRE7-100 INTEGRATED REACTION/SEPARATION PROCESSES FOR THE KINETIC RESOLUTION OF RAC-1-PHENYLETHANOL USING SUPPORTED LIQUID MEMBRANES BASED ON IONIC LIQUIDS</p> <p><u>A. P. de los Ríos</u>, F. J. Hernández-Fernández, M. Rubio, D. Gómez, F. Tomás-Alonso, G. Vllora, Department of Chemical Engineering, Faculty of Chemistry, University of Murcia; Campus de Espinardo, E-30100, Espinardo, Murcia, P.O. Box 4021, Spain; T: (+0034) 968 367 515, F: (+0034) 968 364 148, aprios@um.es</p> |
| | <p>PRE8-108 ON THE ANALYSIS OF PACKED BED STRUCTURE OF MONOSIZED SPHERES AT LOW ASPECT RATIOS</p> <p><u>W. I. Salvat</u>, Depto de Ingeniería Química, Fac. de Ingeniería, UNLP; Calle 47 Nro. 257, LA PLATA, BUENOS AIRES, 1900, ARGENTINA; T: +54-221-4211353, F: +54-221-4254277, nmariani@quimica.unlp.edu.ar</p> <p>N. J. Mariani, Depto de Ingeniería Química, Fac. de Ingeniería, UNLP</p> <p>O. M. Martínez, Depto de Ingeniería Química, Fac. de Ingeniería, UNLP</p> <p>G. F. Barreto, Depto de Ingeniería Química, Fac. de Ingeniería, UNLP</p> |
| | <p>PRE9-116 EFFECT OF LIQUID INDUCED PULSING FLOW ON SELECTIVITY OF COMPLEX REACTIONS</p> <p><u>M.A. Ayude</u>, INTEMA, CONICET, UNMdP; J.B. Justo 4302, Mar del Plata, Buenos Aires, 7600, Argentina ; T: +54 223 4816600, F: none, mayude@fi.mdp.edu.ar</p> <p>O.M.Martinez, Dep. Ing. Química, FI-UNLP-CINDECA, Calle 47 No 257, 1900 La Plata, Argentina.</p> <p>M. C. Cassanello, PINMATE, Dep. Industrias, FCEyN, Universidad de Buenos Aires, Int. Güiraldes 2620, C1428BGA Buenos Aires, Argentina.</p> <p>P. M. Haure, INTEMA, CONICET, UNMdP. J.B. Justo 4302, 7600 Mar del Plata, Argentina</p> |
| | <p>PRE10-136 RESIDENCE TIME DISTRIBUTION IN TWO-PHASE FLOW THROUGH COILED TUBES USING CFD</p> <p><u>Subhashini Vashisth</u>, IIT Delhi, India, Dept. of chemical Engineering, IIT Delhi, New Delhi, New Delhi, 110016, India; T: 09313308912, F: +91-11-26591021, subhudear@gmail.com</p> <p>Tushar Srivastava, IIT Delhi, India</p> <p>K.D.P.Nigam, IIT Delhi, India</p> |
| | <p>PRE11-139 MODIFICATION OF BIOPOLYMER WITH BLOCKED POLYISOCYANATE TO PRODUCE BIODEGRADABLE POLYURETHANE NETWORK</p> |

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| | <p><u>Nataly Kozak</u>, Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine Kharkov chausse,48, Kiev, Ukraine, 02160, Ukraine; T: +(38044)5510386, F: +(38044)5510386, Kozaksmalt@ukr.net</p> <p>YuriiNizelskii, Institute of Macromolecular Chemistry , National Academy of Sciences of Ukraine</p> |
| | <p>PRE12-140 THROMBORESISTANT FLUOROCONTAINING POLY (URETHANE UREA)S AND LINEAR THERMOPLASTIC FLUORO AND METAL CONTAINING POLYURETHANES. SYNTHESIS AND PROPERTIES</p> <p><u>Nataly Kozak</u>, Institute of Macromolecular Chemistry , National Academy of Sciences of Ukraine Kharkov chausse,48, Kiev, Ukraine, 02160, Ukraine; T: +(38044)5510386, F: +(38044)5510386, Kozaksmalt@ukr.net</p> <p>Yurii Nizelskii, Oleg Shekera, Yulia Skakun, Institute of Macromolecular Chemistry , National Academy of Sciences of Ukraine</p> |
| | <p>PRE13-141 TUBERCULOSTATIC HYDRAZIDES OF ISONICOTINIC ACID: ISONIAZIDE, PROPIOAZIDE, FTIVAZIDUM AND FLURENIZIDE. QUANTUM MECHANICAL SIMULATION</p> <p><u>Nataly Kozak</u>, Institute of Macromolecular Chemistry , National Academy of Sciences of Ukraine Kharkov chausse,48, Kiev, Ukraine, 02160, Ukraine; T: +(38044)5510386, F: +(38044)5510386, Kozaksmalt@ukr.net</p> <p>Yurii Nizelskii, Institute of Macromolecular Chemistry , National Academy of Sciences of Ukraine</p> |
| | <p>PRE14-151 EFFECT OF THE OPERATING CONDITIONS ON THE DEACTIVATION OF CUO-ZNO-AL₂O₃/GAMMA-AL₂O₃ BIFUNCTIONAL CATALYSTS FOR THE SYNTHESIS OF DME</p> <p><u>Irene Sierra</u>, Departamento de Ingeniería Química, Universidad del País Vasco, Apartado 644, 48080, Bilbao, Spain; T: 34 94 6015363, F: 34 94 6013500, javier.arena@ehu.es</p> <p>Javier Ereña, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>Andrés T. Aguayo, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>José M. Arandes, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>Javier Bilbao, Departamento de Ingeniería Química, Universidad del País Vasco</p> |
| | <p>PRE15-153 CONSIDERABLE LIQUID PROPORTION TWO-PHASE NOZZLE FLOW SIMULATION BY EULER-EULER MODEL</p> <p><u>Tsipenko</u>, Moscow Aviation Institute, Volokolamskoe sh., 4, Moscow, 125993, Russia; T: (499) 158-4545, F: (499) 786-2671, niint@mai.ru; tsipenko_av@mail.ru</p> <p>Karpyshev A.V., Moscow Aviation Institute</p> |
| | <p>PRE16-178 MODEL OF EXPERIMENTAL ALKYLATION REACTOR</p> <p><u>J. O. Marroquín de la Rosa</u>, Instituto Mexicano del Petroleo, Eje Central Lázaro Cárdenas 152, Mexico City, Mexico D.F., CP 54090, Mexico; T: (52)(5)91758429, F: (52)(5)91758429, jmarroq@imp.mx</p> <p>G. C. Laredo Sánchez, Instituto Mexicano del Petroleo</p> <p>J. A. Ochoa-Tapia, Universidad Autónoma Metropolitana Iztapalapa</p> <p>T. Viveros-García, Universidad Autonoma Metropolitana Iztapalapa</p> |

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| | <p>PRE17-187 NONLINEAR SYSTEM MODELLING AND FAULT DETECTION USING THE PAGE-HINKLEY TEST</p> <p><u>Yahya Chetouani</u>, Université de Rouen, Rue Lavoisier, Mont Saint Aignan, France, 76821, France; T: 0033235528466, F: 0033235147191, Yahya.Chetouani@univ-rouen.fr</p> |
| | <p>PRE18-190 HYDROTREATING OF FLUID CATALYTIC CRACKING AND COKE GAS OIL ON FIXED BED REACTOR, EFFECTS OF OPERATION CONDITION, CATALYST TYPE ON PRODUCTS PROPERTIES AND REACTOR MODELING</p> <p><u>Khalifa Galal Eldin Mohamed</u>, Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, 2Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, Kosti P.O. Box 209, Sudan, 2Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, Kosti P.O. Box 209, Sudan, white Nile, 207, Sudan; T: 00249912982376, F: 00249912982376, gmkhalifa@hotmail.com</p> <p>Cheng Zhen Min¹, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China</p> <p>Lu Shan Xiang, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China</p> <p>Yuan Wei Kang, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China</p> |
| | <p>PMR1-15 EXPERIMENTAL AND CFD INVESTIGATION ON HYDRODYNAMICS IN A NOVEL AIRLIFT REACTOR</p> <p><u>Lu Chunxi</u>, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing); No. 18 Fuxue Rd, Changping, Beijing, 102249, China; T: 0086-10-89733939, F: 0086-10-69724721, kaizhang@cup.edu.cn</p> <p>Jin Jiaqi, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> <p>Wang Li, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> <p>Zhang Kai, States Key Laboratory of Heavy Oil, China University of Petroleum (Beijing)</p> |
| | <p>PMR2-35 OPERATING CONDITIONS OF SPOUTED BEDS WITH A DRAFT TUBE</p> <p><u>Sonia Alvarez</u>, Universidad del Pais Vasco; Apartado 644, Bilbao, Vizcaya, 48080, Spain; T: 94 601 5362, F: 94 601 3500, mariajose.sanjose@ehu.es</p> <p>María J. San José, Alberto Morales, Alvaro Ortiz de Salazar, Martin Olazar, Universidad del Pais Vasco</p> |
| 21:00-22:30 | <p>Dinner at Nervion Hotel Presentation of the BETI JAI ALAI Basque Dances Group http://www.betijaialai.com/</p> |

Tuesday, August 28, 2007

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| | SESSION VII Room A <i>Co-Chairs: Miguel Menedez, Universidad de Zaragoza, Spain, Ramesh Gupta, Exxon Mobil, USA</i> | |
| 09:00 - 09:50 | MICROCHANNEL PROCESS TECHNOLOGY AND ITS IMPACT ON CHEMICAL REACTION ENGINEERING Author: <i>Jan Lerou</i> Affiliation: Velocys Inc., USA Discussion Period – Questions and Answers | |
| 09:50 – 10:00 | | |
| 10:00 – 10:50 | PHOTOREACTOR MODELING. APPLICATIONS TO ADVANCED OXIDATION PROCESSES Authors: <i>Orlando Alfano and Alberto E. Cassano</i> Affiliation: Intec-Conicet, University del Litoral, Argentina Discussion Period – Questions and Answers | |
| 10:50 - 11:00 | | |
| 11:00 - 11:30 | Coffee Break | |
| | Session VIII ADVANCED OXIDATION PROCESES Room A <i>Session Co-Chairs: Jorge Medina Valtierra, Instituto Tecnológico de Aguas Calientes, Mexico, Teresa Mendiara, Universidad de Zaragoza, Spain</i> | Session IX CATALYTIC PROCESSES Room B <i>Session Co-Chairs: Javier Erena, Universidad del País Vasco, Spain, Natasha Dropka, Leibniz-Institut für Katalyse, Germany</i> |
| 11:30 - 11:45 | OA01-186 EFFICIENCY IN PHOTOCATALYTIC REACTORS. PTEF EVALUATION FOR COMPLETE SPAN OF REACTION TIMES <i><u>Benito Serrano</u></i> , Universidad Autonoma de Zacatecas, Carr. a Cd. Cuauhtemoc Km. 0.5, Guadalupe, Zacatecas, 98600, Mexico; T: 52-492-923-1006, F: 52-492-921-3990, beniserra@prodigy.net.mx Aaron Ortiz, University of Western Ontario Miguel Salaices, Instituto de Investigaciones Electricas Hugo de Lasa, University of Western Ontario | OCP1-46 ETHANOL STEAM REFORMING NI(II)-AL(III) USING LAYERED DOUBLE HYDROXIDE AS CATALYST PRECURSOR. KINETIC STUDY <i><u>Verónica Mas</u></i> , Laboratorio de Procesos Catalíticos. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Buenos Aires. Pabellón de Industrias, Ciudad Universitaria, Buenos Aires, 1428, Argentina ; T: 54-11-45763240/1, F: 54-11-45763240/1, norma@di.fcen.uba.ar Pablo Arena, Laboratorio de Procesos Catalíticos. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Buenos Aires. Graciela Baronetti, Laboratorio de Procesos Catalíticos. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Buenos Aires. Norma Amadeo, Laboratorio de Procesos Catalíticos. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Buenos Aires. Miguel Laborde, Laboratorio de Procesos Catalíticos. Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Buenos Aires. |
| 11:45 - 12:00 | OA02-23 PERFORMANCE OF A CONTINUOUS | OCP2-80 Ni-MCM-41 AND Pd-MCM-41 TYPE MESOPOROUS |

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| | <p>FIXED BED PHOTOCATALYTIC REACTOR FOR SELECTIVE OXIDATION OF 4-METHOXYBENZYL ALCOHOL TO ALDEHYDE IN ORGANIC-FREE WATER</p> <p><i>V. Loddo</i>, Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università degli Studi di Palermo; Viale delle Scienze, Palermo, 90128, Italy; T: 00390916567221, F: 00390916567280, loddo@dicpm.unipa.it</p> <p>S. Yurdakal, Kimya Bölümü, Fen Fakültesi Anadolu Üniversitesi, Yunus Emre Kampüsü, 26470 Eskişehir, Turkey</p> <p>G. Palmisano, Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università degli Studi di Palermo, Viale delle Scienze, 90128 Palermo, Italy</p> <p>G. E. Imoberdorf, H. A. Irazoqui, O. M. Alfano, INTEC, Universidad Nacional del Litoral CONICET, Güemes 3450, 3000 Santa Fe, Argentina</p> <p>V. Augugliaro, L. Palmisano, Dipartimento di Ingegneria Chimica dei Processi e dei Materiali, Università degli Studi di Palermo, Viale delle Scienze, 90128 Palermo, Italy</p> | <p>CATALYSTS FOR STEAM REFORMING OF ETHANOL</p> <p><i>Ekin Ozdogan^a</i>, Canan Sener^a, Gulsen Dogu^b, Timur Dogu^a</p> <p>^aMiddle East Technical University, Chemical Engineering Department, Ankara TURKEY</p> <p>^bGazi University, Chemical Engineering Department, Ankara TURKEY</p> |
| <p>12:00 - 12:15</p> | <p><i>OA03-113</i> MODELING OF A FLAT-PLATE, PILOT SCALE REACTOR FOR THE PHOTOCATALYTIC DEGRADATION OF 4-CHLOROPHENOL</p> <p><i>Orlando M. Alfano</i>, INTEC - Universidad Nacional del Litoral and CONICET; Güemes 3450, S3000GLM, Santa Fe, Santa Fe, 3000, Argentina; T: +54-342-4511546, F: +54-342-4511087, alfano@intec.unl.edu.ar</p> <p>María L. Satuf, INTEC - Universidad Nacional del Litoral and CONICET</p> <p>Rodolfo J. Brandi, INTEC - Universidad Nacional del Litoral and CONICET</p> <p>Alberto E. Cassano, INTEC - Universidad Nacional del Litoral and CONICET</p> | <p><i>OCP3-112</i> HYDROGENATION OF VEGETABLE OILS OVER BIMETALLIC SUPPORTED CATALYSTS ON MESOSTRUCTURED SILICA SUPPORTS</p> <p><i>Khaled Belkacemi</i>, Université Laval; Department of Soil Science and Agri-Food Engineering, Pavillon Paul Comtois, Sainte Foy, Quebec, G1K 7P4, Canada; T: (418) 656 2131 Ext: 6511, F: (418) 656 3723, khaled.belkacemi@sga.ulaval.ca</p> <p>Nassima Kemache, Department of Chemical Engineering, Université Laval</p> <p>Safia Hamoudi, Department of Soil Sciences and Agri-Food Engineering, Université Laval</p> <p>Joseph Arul, Department of Food Sciences and Nutrition, Université Laval</p> |
| <p>12:15 - 12:30</p> | <p><i>OA04-142</i> ANALYSIS OF THE BEHAVIOUR OF DIFFERENT MIXED OXIDES IN THE TREATMENT OF CL-VOC CONTAINING GAS STREAMS</p> <p><i>Beatriz de Rivas</i>, Chemical Engineering</p> | <p><i>OCP4-128</i> DEVELOPMENT OF ALTERNATIVE CATALYSTS BASED ON HZSM-5 ZEOLITE FOR THE BTO PROCESS</p> <p><i>Alonso, Ainhoa</i>, Departamento de Ingeniería Química. Universidad del País Vasco. P.O.Box: 644, Bilbao, Vizcaya,</p> |

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| | <p>Department, Faculty of Science and Technology, Universidad del País Vasco/EHU, PO BOX 644, Bilbao, 48080, Spain; T: +34 94 601 2621, F: +34 94 601 5963, iqbdemab@lg.ehu.es</p> <p>Rubén López-Fonseca, Juan Ramón González-Velasco, Jose Ignacio Gutiérrez-Ortiz, Chemical Eng. Department, Faculty of Science</p> | <p>48080, Spain; T: +34-94-6015501, F: +34-94-6013500, iqbalvia@lg.ehu.es</p> <p>Valle, B., Atutxa, A., Aguayo, A.T., Gayubo, A.G., Departamento de Ingeniería Química. Universidad del País Vasco</p> |
| 12:30 - 12:45 | <p>OA05-149 KINETIC MODELLING OF TOXIC COMPOUNDS GENERATED DURING PHENOL ELIMINATION IN WASTEWATERS</p> <p><u><i>Natalia Villota Salazar</i></u>, Universidad del País Vasco UPV/EHU, Facultad de Ciencia y Tecnología, Apartado 644, Bilbao, Basque Country, 48080, Spain; T: +34 946015500, F: +34 6013500, nataliavillotasalazar@yahoo.es</p> <p>Federico Mijangos Antón, Universidad del País Vasco UPV/EHU</p> <p>Fernando Varona Hierro, Universidad del País Vasco UPV/EHU</p> <p>Javier Andrés García, Universidad del País Vasco UPV/EHU</p> | <p>OCP5-134 ADSORPTION, DIFFUSION AND REACTION IN FCC CATALYSTS FOR ENHANCED SELECTIVITY TOWARDS ENVIRONMENTALLY FRIENDLY GASOLINE</p> <p><u><i>Mustafa Al-Sabawi</i></u>, University of Western Ontario; Department of Chemical and Biochemical Engineering, London, Ontario, N6A 5B9, Canada; T: (519)661-2111 x.88218, F: 519-850-2931, mnalsaba@uwo.ca</p> <p>Jesus Atias, National Centre for Upgrading Technology</p> <p>Hugo de Lasa, University of Western Ontario</p> |
| 12:45-13:00 | <p>OA06-152 A KINETIC MODEL FOR THE PHOTOCATALYTIC OXIDATION OF CYANIDE WITH TiO₂ AND TiO₂/SiO₂</p> <p><u><i>Javier Marugan</i></u>, Departamento de Tecnología Química y Ambiental, ESCET, Universidad Rey Juan Carlos, C/ Tulipán s/n, MÓSTOLES, MADRID, 28933, SPAIN; T: 34 91 664 74 66, F: 34 91 488 70 68, javier.marugan@urjc.es</p> <p>Rafael Van Grieken, Departamento de Tecnología Química y Ambiental, ESCET, Universidad Rey Juan Carlos</p> <p>Alberto E. Cassano, Instituto de Desarrollo Tecnológico para la Industria Química (INTEC), Universidad Nacional del Litoral-CONICET</p> <p>Orlando M. Alfano, Instituto de Desarrollo Tecnológico para la Industria Química (INTEC), Universidad Nacional del Litoral-CONICET</p> | <p>OCP6-7 BIOACTIVE LACTOBIONIC ACID PRODUCTION FROM LACTOSE USING PD-BI/SILICA AS A NEW NANOSTRUCTURED CATALYST FOR PARTIAL OXIDATION</p> <p><u><i>Belkacemi Khaled</i></u>, Université Laval; Department of Soil Sciences and Agri-Food Engineering, Sainte Foy, Quebec, G1K 7P4, Canada; T: (418) 656 2131 Ext: 6511, F: (418) 656 3723, khaled.belkacemi@sga.ulaval.ca</p> <p>Mirela Cristea Vlad, Department of Chemical Engineering, Université Laval</p> <p>Joseph Arul, Department of Food Science and Nutrition, Université Laval</p> <p>Safia Hamoudi, Department of Soil Sciences and Agri-Food Engineering, Université Laval</p> |
| 13:00-13:15 | <p>OA07-175 KINETICS OF WET OXIDATION OF PHENOL OVER A FE/ACTIVATED CARBON CATALYST</p> | <p>OCP7-49 MULTIFUNCTIONAL MATERIALS FOR A CATALYTIC MEMBRANE SEPARATION REACTOR</p> |

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| | <p><u>A. Quintanilla</u>, Chemical Engineering Area. Faculty of Science, Autonoma University of Madrid, Campus de Cantoblanco, Madrid, 28049, Spain; T: +34 91 4972878, F: +34 91 4973516, asun.quintanilla@uam.es</p> <p>M. T. Kreuzter, F. Kapteijn, J. A. Moulijn, Catalysis Engineering, DelftChemTech, Faculty of Applied Sciences, Delft University of Technology</p> <p>J. Casas, J.J. Rodríguez, Chemical Engineering Area. Faculty of Science, Autonoma University of Madrid</p> | <p><u>Yoshimitsu Uemura</u>, Kagoshima TLO Co., Ltd., Korimoto 1-21-40, Kagoahima, Kagoshima, 890-0065, Japan; T: 099-284-1631, F: 099-284-1632, uemura@ktlo.co.jp</p> <p>Hideaki Yoshimitsu, Kagoshima University</p> <p>Yoshihiro Ohzuno, Kagoshima University</p> <p>Yasuo Hatate, Kagoshima University</p> |
| 13:15-13:30 | <p>OA08-55 WET OXIDATION OF ORANGE II WITH MANGANESE-COPPER OXIDES</p> <p><u>Isabel M. Castelo-Branco</u>, Department of Chemical Engineering, University of Coimbra; Pólo II – Pinhal de Marrocos, Coimbra, Coimbra, 3030-290 Coimbra, Portugal; T: +351239798723, F: +351239798703, guidab@eq.uc.pt</p> <p>Rosa M. Quinta-Ferreira, Department of Chemical Engineering, University of Coimbra</p> | <p>OCP8-21 INFLUENCE OF A REACTION ON THE MASS TRANSFER CHARACTERISTICS OF A CATALYTIC DISTILLATION SYSTEM</p> <p><u>Jako Nieuwoudt</u>, Catalysis Research Centre, Department of Chemical Engineering, University of Cape Town; Private Bag, Rondebosch, Western Cape, 7701, South Africa; T: +27(21)650-3721, F: +27(21)650-4051, jako@chemeng.uct.ac.za</p> <p>Klaus Möller, Department of Chemical Engineering, University of Cape Town</p> |
| 13:30 – 14:30 | Lunch at Euskalduna Centre | |
| 14:30- 16:00 | Afternoon Break | |
| | <p>Session X ADVANCED OXIDATION PROCESSES Room A Session Co-Chairs: Asuncion Quintanilla, Universidad de Madrid, Spain; Tomas Cordero, Universidad de Malaga, Spain</p> | <p>Session XI CATALYTIC PROCESSES Room B Session Co-Chairs: Rex Thorpe, University of Surrey, United Kingdom, Yoshimitsu Uemura, Kagoshima University, Japan</p> |
| 16:00 - 16:15 | <p>OA09-194 PHOTOCATALYTIC DEGRADATION OF PHENOL: KINETIC MODELING AND REACTION MECHANISMS.</p> <p><u>Benito Serrano Rosales</u>, Facultad de Ciencias Químicas, Universidad Autónoma de Zacatecas, Km. 0.5, Carr. a Cd. Cuauhtemoc, Guadalupe Zacatecas. 98600 Mexico, Tel. 52-492-923-1006, Fax 52-492-921-3990, beniserra@prodigy.net.mx</p> <p>Sayra Lissette Orozco Cerros, Virginia Flores Morales, Universidad Autónoma de Zacatecas,</p> | <p>OCP9-62 PROCESS INTEGRATION IN REDOX OPERATION OF A CATALYST: A COMPARATIVE STUDY OF VPO CATALYSTS FOR MALEIC ANHYDRIDE PRODUCTION IN TWO ZONE FLUIDIZED BED REACTORS</p> <p><u>M. Menendez</u>, I3A. University of Zaragoza; Pedro Cerbuna, 12, Zaragoza, Zaragoza, 50009, Spain; T: +34 976 761152, F: +34 976 762142, qtmiguel@unizar.es</p> <p>J. Gascon, I3A. University of Zaragoza</p> <p>L. Perez, I3A. University of Zaragoza</p> |

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| | <p>Aaron Ortiz Gomez, The University of Western Ontario, London Ontario, Canada.</p> <p>Miguel Salaices Arredondo, Instituto de Investigaciones Electricas, Cuernavaca Morelos Mexico.</p> <p>Hugo Ignacio de Lasa. The University of Western Ontario, London Ontario, Canada.</p> | <p>C. Tellez, I3A. University of Zaragoza</p> <p>J. Herguido, I3A. University of Zaragoza</p> |
| 16:15 – 16:30 | <p>OA010-6 DEGRADATION OF REACTIVE BLUE 69 BY PHOTO-FENTON</p> <p><u>Sayra L. Orozco</u>, Centro de Investigación en Energía, Universidad Nacional Autónoma de México, Privada Xochicalco S/N, Temixco, Morelos, 62580, México; T: +52 (55) 56229791, F: +52 (55) 56229791, slorc@cie.unam.mx</p> <p>Raúl Suárez Parra, Centro de Investigación en Energía, Universidad Nacional Autónoma de México</p> <p>C. A. Arancibia Bulnes, Centro de Investigación en Energía, Universidad Nacional Autónoma de México</p> <p>Benito Serrano Rosales, Facultad de Ciencias Químicas, Universidad Autónoma de Zacatecas</p> <p>Isaías Hernández Pérez, Universidad Autónoma Metropolitana-Azcatpotzalco</p> | <p>OCP10-127 KINETIC BEHAVIOUR OF HZSM-5 CATALYST IN THE COUPLED METHANOL HYDROCARBON CRACKING OVER HZSM-5 ZEOLITE</p> <p><u>Mier, Diana</u>, Departamento de Ingeniería Química, Universidad del País Vasco. P.O.Box: 644, Bilbao, Vizcaya, 48080, Spain; T: +34-94-6015501, F: +34-94-6013500, mierdiana@hotmail.com</p> <p>Aguayo, A.T., Atutxa, A., Gayubo, A.G., Bilbao, J., Departamento de Ingeniería Química. Universidad del País Vasco.</p> |
| 16:30 – 16:45 | <p>OA011-195 FE-ASSISTED PHOTOCATALYTIC MINERALIZATION OF PHENOL: KINETIC MODELLING INVOLVING AROMATICS, CARBOXYLIC ACIDS AND MINERALIZATION RATES.</p> <p><u>Aaron Ortiz-Gomez</u>, Faculty of Engineering, Chemical Reactor Engineering Centre, The University of Western Ontario, London, On. N6A5B8, Canada. aortizg2@uwo.ca</p> <p>Benito Serrano-Rosales, Chemical Engineering Department, Universidad Autonoma de Zacatecas, Zacatecas. Mexico.</p> <p>Hugo de Lasa, Faculty of Engineering, Chemical Reactor Engineering Centre, The University of Western Ontario, London, On. N6A5B8, Canada.</p> | <p>OCP11-163 DYNAMIC AND STEADY STATE ANALYSIS OF LOW TEMPERATURE ETHANE SELECTIVE OXIDATION OVER CRO_x AND CR-V MIXED OXIDE CATALYSTS</p> <p><u>Gulsun Karamullaoglu</u>, TUBITAK (present institution), Atatürk Blv., Ankara, 06100, Turkey; T: +90 532 4478556, F: +90 312 2102600, gulsun.karamullaoglu@tubitak.gov.tr</p> <p>Timur Dogu, Middle East Technical University, Ankara Turkey; tdogu@metu.edu.tr</p> |
| 16:45 – 17:00 | <p>OA012-150 CONTROL OF PHENOL DESTRUCTION IN WATEWATERS BY REDOX</p> | <p>OCP12-14 CO3O4 BASED CATALYSTS FOR NO OXIDATION AND NOX REDUCTION IN THE FAST SCR PROCESS</p> |

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| | <p>POTENTIAL MEASUREMENT</p> <p><u><i>Natalia Villota Salazar</i></u>, Universidad del País Vasco UPV/EHU, Facultad de Ciencia y Tecnología, Apartado 644, Bilbao, Basque Country, 48080, Spain; T: +34 946015500, F: +34 6013500, nataliavillotasalazar@yahoo.es</p> <p>Federico Mijangos Antón, Universidad del País Vasco UPV/EHU</p> <p>Fernando Varona Hierro, Universidad del País Vasco UPV/EHU</p> <p>Leire López Alboniga, Universidad del País Vasco UPV/EHU</p> | <p><u><i>Muhammad Faisal Irfan</i></u>, Jeong Hoi Goo, Sang Done Kim, Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology; 373-1 Guseong-dong, Yuseong-gu, Daejeon, 305-701, KOREA (Rep. of) T: 82-42-869-3913, F: 82-42-869-3910, kimsd@kaist.ac.kr</p> |
| 17:00 – 17:15 | <p><i>OA013-174</i></p> <p>OVERALL KINETIC MODEL OF FENTON OXIDATION OF PHENOL</p> <p><u><i>J. A. Casas</i></u>, Universidad Autónoma Madrid, Facultad de Ciencias. UAM., Madrid, Madrid, 28024, Spain; T: 914978713, F: 914973516, jose.casas@uam.es</p> <p>J. A. Zazo, Universidad Autónoma Madrid</p> <p>A. F. Mohedano, Universidad Autónoma Madrid</p> <p>J.J. Rodriguez, Universidad Autonoma Madrid</p> | <p><i>OCP13-90</i></p> <p>KINETICS FOR CO SELECTIVE OXIDATION ON PT/SN/AL2O3 CATALYSTS FOR FUEL CELL APPLICATIONS</p> <p><u><i>Jose Luis Ayastuy</i></u>, University of the Basque Country; P.O. Box 644, 48080 Bilbao, Spain, Bilbao, Bizkaia, 48080, Spain; T: +34-94-6012619, F: +34-94-6015963, joseluis.ayastuy@ehu.es</p> <p>M. Pilar González-Marcos, University of the Basque Country</p> <p>Miguel Angel Gutiérrez-Ortiz, University of the Basque Country.</p> |
| 17:15 – 17:30 | <p><i>OA014-176</i></p> <p>SELF-CLEANING TEST OF DOPED TiO₂-COATED GLASS PLATES UNDER UV RADIATION</p> <p><u><i>Jorge Medina-Valtierra</i></u>, Departamento de Ingeniería Química y Bioquímica, Instituto Tecnológico de Aguascalientes, Av. A. López Mateos Ote. No. 1801, Fracc. Bona Gens., Aguascalientes, Aguascalientes, 20256, Mexico; T: 449-9105002, F: 449-9700423, jormeval@yahoo.com</p> <p>Claudio Frausto-Reyes, Centro de Investigaciones en Óptica AC., Unidad Aguascalientes Sergio Calixto, Centro de Investigaciones en Óptica AC.</p> <p>Jorge Ramírez-Ortíz, Unidad Académica de Ciencias Químicas, Universidad Autónoma de Zacatecas</p> | <p><i>OCP14-94</i></p> <p>KINETICS FOR CO PREFERENTIAL OXIDATION (COPROX) OVER CUO/CEO₂ CATALYSTS</p> <p><u><i>Fernando Mariño</i></u>, Laboratorio de Procesos Catalíticos - Departamento de Ingeniería Química - Universidad de Buenos Aires ; Pabellón de Industrias, Ciudad Universitaria, Buenos Aires, 1428, Argentina; T: ++54-11-45763240, F: ++54-11-45763241, fernando@di.fcen.uba.ar</p> <p>Máximo Moreno, Laboratorio de Procesos Catalíticos - Departamento de Ingeniería Química - Universidad de Buenos Aires</p> <p>Graciela Baronetti, Laboratorio de Procesos Catalíticos - Departamento de Ingeniería Química - Universidad de Buenos Aires</p> <p>Miguel Laborde, Laboratorio de Procesos Catalíticos - Departamento de Ingeniería Química - Universidad de Buenos Aires</p> |
| 17:30 – 17:45 | <p><i>OA015-183</i></p> <p>DEGRADATION OF A DYE MODEL (RHODAMINE 6G) BY THE INJECTION OF HYDROGEN PEROXIDE DURING</p> | <p><i>OCP15-59</i></p> <p>EFFECT OF CYCLING PERIOD FOR NO-CO SYSTEM ADDED OXYGEN OVER NOBLE METAL CATALYSTS</p> |

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| | <p>AND OZONATION PROCESS.</p> <p><u>Cristina Rodriguez Varona</u>, University of Basque Country, Dept. of Chemical Engineering, University of the Basque Country. P.O. 644. 48080, Bilbao, Bizkaia, 48080, Spain; T: 946015500, F: 946013500, krisrvm@yahoo.es</p> <p>Jose Ignacio Lombraña Alonso, University of Basque Country</p> <p>Fernando Varona Hierro, University of Basque Country</p> | <p><u>Makoto Takahashi</u>, Department of Chemical Engineering, Tokyo Institute of Thecnology; O-okayama 2-12-1-S1-37, Meguro-ku, Tokyo, 152-8552, Japan; T: +81-3-5734-2883, F: +81-3-5734-2883, aida.t.aa@m.titech.ac.jp</p> <p>Duangkamol Na-Ranong, Department of Chemical Engineering, King Mongkut's Institute of Technology Ladkrabang</p> <p>Ratanaporn Yuangsawad, Department of Chemical Engineering, King Mongkut's Institute of Technology Ladkrabang</p> <p>Takashi Aida, Department of Chemical Engineering, Tokyo Institute of Technology</p> |
| 17:45 – 18:00 | <p>OA016-40</p> <p>HYDROGEN PRODUCTION BY PHOTOCATALYTIC DECOMPOSITION OF ALCOHOLS OVER M/TIO₂ CATALYSTS (M = AU, PD, PT OR RH)</p> <p><u>Vladimir Galvita</u>, Otto von Guericke University; Universitätsplatz 2, Magdeburg, 39106, Germany; T: +49 391 6110391, F: +49 391 611523, galvita@mpi-magdeburg.mpg.de</p> <p>Kai Sundmacher, Max Planck Institute for Dynamics of Complex Technical Systems</p> | <p>OCP16-52</p> <p>GREENING OF ALKENE EPOXIDATIONS USING NOVEL POLYMER-SUPPORTED MO(VI) CATALYSTS BY CATALYTIC DISTILLATION</p> <p><u>B. Saha</u>, Loughborough University; Department of Chemical Engineering, Loughborough University, Loughborough, Leicestershire, LE11 3TU, UK., Loughborough University, Leicestershire, L E11 3TU, UK; T: +44-1509-222505, F: +44-1509-223923, B.Saha@lboro.ac.uk</p> <p>K. Ambroziak, Loughborough University</p> <p>R. Mbeleck, WestChem Graduate School, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, G1 1XL, UK</p> <p>D.C.Sherrington, WestChem Graduate School, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, G1 1XL, UK</p> |
| 18:00 - 20:00 | <p>SESSION XII</p> <p>Posters/Social Time</p> <p><i>Includes in addition to all the oral presentations of Sessions VIII, IX, X and XI- ADVANCED OXIDATION AND CATALYTIC PROCESSES the following contributions</i></p> | |
| | <p>PA01-54</p> <p>WATER DISINFECTION EMPLOYING UV RADIATION COMBINED WITH HYDROGEN PEROXIDE</p> <p><u>Marisol Daniela Labas</u>, INTEC-UNL-CONICET; Güemes 3450, Santa Fe, Santa Fe, 3000, Argentina; T: 54-(0)342-4559175/77, F: 54 (0)342-4511087, mlabas@ceride.gov.ar</p> <p>Cristina Susana Zalazar, Rodolfo Juan Brandi, INTEC-UNL-CONICET</p> <p>Alberto Enrique Cassano, INTEC-UNL-CONICET</p> | |
| | <p>PA02-101</p> <p>DEGRADATION OF CHLORIDE POLLUTANTS IN WATER USING UV/H₂O₂. REACTION MECHANISM AND KINETICS</p> <p><u>Cristina S. Zalazar</u>, INTEC (Universidad Nacional del Litoral and CONICET); Güemes 3450, Santa Fe, Santa</p> | |

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| | <p>Fe, 3000, Argentina; T: 54-342-4511546, F: 54-342-4511087, szalazar@ceride.gov.ar;</p> <p>Marisol D. Labas, INTEC</p> <p>Rodolfo J. Brandi, INTEC</p> <p>Alberto E. Cassano, INTEC</p> |
| | <p>PA03-89 FULLERENE AS VISIBLE LIGHT CATALYST WITH ULTRAVIOLET WAVE</p> <p><u>Hideo Nishiumi</u>, Dept. Materials Chemistry, Hosei University; Kajino-cho 3-7-2, Koganei-city, Tokyo, 184-8584, Japan; T: +81-42-387-6242, F: +81-42-387-6242, nishi@hosei.ac.jp</p> <p>Motoko Narita, Faculty of Home Economics, Tokyo Kasei Univ.</p> |
| | <p>PA04-91 MODELING AND MINIMIZATION OF TRIHALOMETHANES GENERATION IN AN ARGENTINIAN DRINKING WATER PLANT</p> <p><u>Carlos Martín</u>, Instituto de Desarrollo Tecnológico para la Industria Química (INTEC); Guemes 3450, Santa Fe, Santa Fe, 3000, Argentina; T: 54 342 4511546, F: 54 342 4511087, cmartin@ceride.gov.ar</p> <p>Vilma Ortolani, Ente Regulador de Servicios Sanitarios de Santa Fe (ENRESS)</p> <p>Alejandro Trombert, Instituto de Desarrollo Tecnológico para la Industria Química (INTEC)</p> <p>Emilio Cepero, Aguas Santafesinas Sociedad Anónima, Planta Potabilizadora Rosario (ASSA)</p> |
| | <p>PA05-96 POTENTIAL USES OF ULTRAVIOLET RADIATION: THE IMPACT OF THE BACTERIAL REACTIVATION ON DISINFECTION APPLICATIONS</p> <p><u>Carlos Martín</u>, Instituto de Desarrollo Tecnológico para la Industria Química (UNL-CONICET); Guemes 3450, Santa Fe, Santa Fe, 3000, Republica Argentina; T: 54 324 4511546, F: 54 342 4511087, cmartin@ceride.gov.ar</p> <p>Alejandro Trombert, Instituto de Desarrollo Tecnológico para la Industria Química (UNL-CONICET)</p> <p>Fabian Zalazar, Facultad de Bioquímica y Ciencias Biológicas (UNL)</p> <p>Horacio Irazoqui, Instituto de Desarrollo Tecnológico para la Industria Química (UNL-CONICET)</p> |
| | <p>PA06-107 PERIODIC GAS FEED MODULATION APPLIED TO PHENOL CWAO OVER ACTIVATED CARBON</p> <p><u>M. A. Ayude</u>, Instituto Nacional de Tecnología de los Materiales INTEMA, CONICET, UNMDP, UNMdP; J. B. Justo 4302, Mar del Plata, Buenos Aires, 7600, Argentina; T: +54 223 4816600, F: none, mayude@fi.mdp.edu.ar</p> <p>T. Rodriguez, J. Font, A. Fortuny, C. Bengoa, A. Fabregat, F. Stuber, Departament d'Enginyeria Química, ETSEQ, Universitat Rovira i Virgili, Paisos Catalans 26, 43007 Tarragona, Catalunya, Spain</p> |
| | <p>PA07-188 MINIMIZATION OF SLUDGE PRODUCTION IN A WWTP OF AN ALIMENTARY INDUSTRY BY OZONE TREATMENT</p> <p><u>José Luis Campos Gómez</u>, University of Santiago de Compostela, Department of Chemical Engineering. School of Engineering. Rua Lope Gómez de Marzoa, Santiago de Compostela, A Coruña, E-15782, Spain; T: 981 563100-16777, F: 981 528 050, equi@usc.es</p> <p>Laura Otero Rodríguez, University of Santiago de Compostela</p> |

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| | <p>Amaya Franco Uría, University of Santiago de Compostela</p> <p>Anuska Mosquera Corral, University of Santiago de Compostela</p> <p>Enrique Roca Bordello, University of Santiago de Compostela</p> |
| | <p><i>PCP1-27</i> DESIGN AND CONSTRUCTION OF A FLUID CATALYTIC CRACKING PILOT PLANT FOR VACUUM GAS OIL-PLASTIC WASTES BLENDS CO-PROCESSING</p> <p><u><i>Andrew. O. Odjo</i></u>, University of Alicante; Institute of Chemical Processes Engineering, University of Alicante P. O. Box 99, Alicante, Alicante, 03080, Spain; T: +34-965903400 Ext 2386, F: +34-965903826, andrew.odjo@ua.es</p> <p>Antonio Marcilla, J. C. García-Quesada</p> <p>Amparo Gómez, Rosa N. Martínez</p> <p>Deseada Berenguer, María I. Beltrán-Rico</p> |
| | <p><i>PCP2-37</i> MODELING CATALYTIC CONVERTERS FOR EXHAUST AFTER-TREATMENT OF HYDROCARBONS DURING COLD START</p> <p><u><i>Sanchita Chauhan</i></u>, Panjab University; Sector 14, Chandigarh, Chandigarh, 160014, India ; T: 172-2561355, F: 172-2561355, chasanchi@yahoo.co.in</p> <p>V.K. Srivastava, I.I.T Delhi</p> |
| | <p><i>PCP3-48</i> STEAM REFORMING CATALYST DEPOSITION ON STRUCTURED SUPPORTS</p> <p><u><i>Nerea de Miguel</i></u>, Ikerlan-Energia; Parque Tecnológico de Álava, Juan de La Cierva 1, Miñano, Álava, 01510, Spain; T: +34 945 297 032, F: +34 945 296 926, ndemiguel@ikerlan.es</p> <p>Jaio Manzanedo, Ikerlan-Energia</p> <p>Pedro Luis Arias, University of the Basque County, School of Engineering</p> |
| | <p><i>PCP4-81</i> KINETICS OF 4-CHLOROPHENOL CATALYTIC HYDRODECLORINATION IN A BASKET STIRRED REACTOR</p> <p><u><i>E. Díaz</i></u>, Universidad Autónoma de Madrid; Ciudad Universitaria de Cantoblanco, Madrid, 28049, Spain; T: 34 91 497 39 91, F: 34 91 497 35 16, elena.diaz@uam.es</p> <p>J. A. Casas, A. F. Mohedano, L. Calvo, M.A. Gilarranz, J. J. Rodriguez, Universidad Autónoma de Madrid</p> |
| | <p><i>PCP5-95</i> BIODIESEL FROM FRIED OIL. ZEOLITES X AND HIDROTALCITE AS CATALYST</p> <p><u><i>Brito, A.</i></u>, Chemical Engineering Department, University of La Laguna, Avda. Astrofisico Fco. Sanchez s/n, Facultad de Quimica, La Laguna, Santa Cruz de Tenerife, 38200, Spain; T: 34922318077, F: 34922318004, andbrito@ull.es</p> <p>García, M.T., Chemical Engineering Department, University of La Laguna</p> <p>Borges, M.E., Chemical Engineering Department, University of La Laguna</p> |

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| | <p>Otero, N., onzález, L., Chemical Engineering Department, University of La Laguna</p> <p>Rodríguez, ., Central University of Venezuela</p> |
| | <p>PCP6-99 NEW CARBON-BASED ACID CATALYST FOR ALCOHOLS DEHYDRATION</p> <p><u>José Rodríguez-Mirasol</u>, University of Málaga; Chemical Engineering Department, School of Industrial Engineering, Campus de El Ejido s/n, Málaga, 29013, Spain; T: +34952132886, F: +34952132886, mirasol@uma.es</p> <p>Jorge Bedia, Ramiro Ruiz-Rosas, Josefa Márquez, Juana María Rosas, Tomás Cordero, University of Málaga</p> |
| | <p>PCP7-106 SURFACE PROPERTIES AND CATALYTIC ACTIVITY EVALUATION IN PALM OIL-METHANOL TRANS-ESTERIFICATION, OF ZINC OXIDE</p> <p><u>Rigoberto Gómez</u>, Andes University; Carrera 1 No. 18 A 10, Bogotá, Cundinamarca, 1, Colombia; T: 57-1-3394949 Ext. 2786, F: 57-1-3324366, rgomez@uniandes.edu.co</p> <p>Deicy Barrera-Díaz, M. Molano, G. Camargo, Andes University (Colombia)</p> <p>J.C. Moreno-Piraján, Andes University (Colombia)</p> <p>L. Giraldo-Gutiérrez, National University of Colombia</p> <p>Karim Sapag, National University of San Luis (Argentina)</p> |
| | <p>PCP8-131 KINETIC MODELLING FOR THE DEHYDRATION OF METHANOL TO DIMETHYL ETHER OVER GAMMA-AL₂O₃</p> <p><u>Irene Sierra</u>, Departamento de Ingeniería Química, Universidad del País Vasco; Apartado 644, 48080, Bilbao, Spain; T: 34 94 6015363, F: 34 94 6013500, javier.arena@ehu.es</p> <p>Javier Ereña, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>Andrés T. Aguayo, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>José M. Arandes, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>Javier Bilbao, Departamento de Ingeniería Química, Universidad del País Vasco</p> |
| | <p>PCP9-165 METHANOL AND DIMETHYL ETHER SYNTHESIS FROM SYNGAS OVER GOLD-BASED CATALYSTS</p> <p><u>Arthur Nseka Mpela</u>, University of the Witwatersrand, 1 Jan Smuts, Braamfontein, Johannesburg, Gauteng, 2050, South Africa; T: +27 (0) 11 717 7592, F: +27 (0) 11 403 1471, arthur.mpela@wits.ac.za</p> <p>Mike S. Scurrell, University of the Witwatersrand</p> <p>Diane Hildebrandt, University of the Witwatersrand</p> <p>David Glasser, University of the Witwatersrand</p> |
| | <p>PCP10-166 CATALYTIC DECOMPOSITION OF METHANE FOR PRODUCING CARBON NANOTUBES:</p> |

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| | <p>EFFECT OF CATALYST COMPONENTS AND REACTION TEMPERATURES</p> <p><i>Siang-Piao Chai</i>, Sharif Hussein Sharif Zein, Abdul Rahman Mohamed*, School of Chemical Engineering, Engineering Campus, Universiti Sains Malaysia, Seri Ampangan, Nibong Tebal, Penang, 14300, Malaysia; T: 604-5996490, F: 604-5941013, chrahman@eng.usm.my</p> |
| | <p><i>PCP11-173</i> OXIDATION OF ETHANOL TO ACETALDEHYDE OVER NA-PROMOTED VANADIUM OXIDE CATALYSTS</p> <p>Jose E. Herrera, Department of Chemical and Biochemical Engineering University of Western Ontario TEB373, London, Ontario, N6A 5B9, Canada; T: +1(519)661-2111 x81262, F: +1(519)661 3498, jherrera@eng.uwo.ca</p> <p><i>Ricardo J. Chimentão</i>, Departament d'Enginyeria Química, Universitat Rovira i Virgili, Av. dels Països Catalans 26, P.O. Box 43007, Tarragona, 43007, Spain</p> <p>Yong Wang, Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, P.O. Box 999, MS k8-98, Richland, WA 99352, USA</p> <p>Charles. H.F. Peden, Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, P.O. Box 999, MS k8-98, Richland, WA 99352, USA</p> <p>F. Medina, Departament d'Enginyeria Química, Universitat Rovira i Virgili, Av. dels Països Catalans 26, P.O. Box 43007, Tarragona, 43007, Spain</p> |
| | <p><i>PCP12-179</i> HYDROTREATMENT OF MODEL DIESEL STREAM</p> <p><i>J. O. Marroquín de la Rosa</i>, Instituto Mexicano del Petroleo, Eje Central Lázaro Cárdenas 152, Mexico City, Mexico D.F., CP54090, México; T: (52)(5)91758429, F: (52)(5)91758429, jmarroq@imp.mx</p> <p>G. C. Laredo Sánchez, Instituto Mexicano del Petroleo</p> <p>J. A. Ochoa-Tapia, Universidad Autónoma Metropolitana Iztapalapa</p> <p>T. Viveros-García, Universidad Autónoma Metropolitana Iztapalapa</p> |
| | <p><i>PCP13-180</i> SYNTHESIS OF HIGHER ALCOHOLS FROM SYNGAS OVER NANOSIZED LA(CO,CU)O3 PEROVSKITE PRECURSORS</p> <p><i>Nguyen Tien-Thao</i>, Laval University, Department of Chemical Engineering, Quebec, Quebec, G2E 5H5, Canada; T: (418)656-2131, ext. 4339, F: (418)656-3810, Guoying.Xu@gch.ulaval.ca</p> <p>M. Hassan Zahedi-Niaki, Universite Laval</p> <p>Houshang Alamdari, Universite Laval Serge Kaliaguine, Universite Laval</p> |
| | <p><i>PCP14-182</i> EFFECT OF CO-FEEDING RENEWABLE OXYGENATED MATERIALS IN CAT CRACKERS</p> <p><i>Jesus Atias</i>, CANMET - Energy Technology Centre – Devon, Room A182 - 1 Oil Patch Drive, Devon, Alberta, T9G 1A8, Canada; T: 780-987-8784, F: 780-987-5349, jesus.atias@NRCan.gc.ca</p> <p>Zbigniew Ring, CANMET - Energy Technology Centre - Devon</p> |
| | <p><i>PCP15-184</i> EFFECT OF OPERATION CONDITIONS ON A MODEL NSR NO_x STORAGE-REDUCTON CATALYST PERFORMANCE</p> |

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| | <u>U. Elizundia</u> , R. López-Fonseca, M.A.Gutiérrez-Ortiz, J.R. González-Velasco, Chemical Technologies for Environmental Sustainability Group, Department of Chemical Engineering, Faculty of Science and Technology, Universidad del País Vasco/EHU, P.O. Box 644, Bilbao, Bizkaia, 48080, Spain; T: +34 946015502, F: +34 946015963, juanra.gonzalezvelasco@ehu.es |
| | <i>Evening on your own</i> |

Wednesday August 29, 2007

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| | Session XIII Room Session Co-Chairs: Orlando Alfano, INTEC, Argentina; Benito Serrano, Universidad de Zacatecas, Mexico | |
| 09:00 - 09:50 | HYDROGEN EVOLUTION VIA WATER SPLITTING ON CD-ZN SYSTEMS UNDER VISIBLE LIGHT IRRADIATION Author: <u>R.M. Navarro, F. del Valle and J.L.G. Fierro</u> Affiliation: Instituto de Catálisis y Petroleoquímica, Consejo Superior de Investigaciones Científicas, Madrid, Spain 09:50 - 10:00 <i>Discussion Period – Questions and Answers</i> | |
| 10:00 - 10:50 | NH₃-SCR OF NOX FOR DIESEL EXHAUST AFTER TREATMENT OVER V-BASED CATALYSTS Author: <u>Enrico Tronconi</u> Affiliation: Politecnico di Milano, Italy 10:50 - 11:00 <i>Discussion Period – Questions and Answers</i> | |
| 11:00 - 11:30 | Coffee Break | |
| | Session XIV ALTERNATIVE FUELS Room Session Co-Chairs: Aurora Garea, Universidad de Cantabria, Spain, Cevallos-Candau, Univation Technologies, USA | Session XV GREEN PROCESSES Room Session Co-Chairs: Tom Kalnes, UOP, USA, Pascal Fongerland, USTL-LCL, Lille, France |
| 11:30 - 11:45 | OAF1-14 HYDROGEN PRODUCTION FROM ETHANOL STEAM REFORMING. FIXED BED REACTOR DESIGN <u>Pablo Giunta</u> , Universidad de Buenos Aires, Pabellón de Industrias, Ciudad Universitaria, Buenos Aires, 1428, Argentina; T: 54-11-45763240/1, F: 54-11-45763240/1, norma@di.fcen.uba.ar Miguel Laborde, Universidad de Buenos Aires Norma Amadeo, Universidad de Buenos Aires | OGP1-50 A THERMODYNAMIC MODEL OF THE OUTPUTS OF GASIFICATION OF SOLID WASTE Ruby Ray, University of Surrey; Fluids & Systems, School of Engineering (D2), Guildford, GU2 7XH, UK; T: +44 (0) 7883019917, F: +44 (0) 1483 686581, ruby_che@yahoo.com <u>Jorge L. Hau</u> , School of Chemical Engineering & Analytical Science, University of Manchester, UK Rex Thorpe, Fluids & Systems, School of Engineering (D2), University of Surrey, UK Adisa Azapagic, School of Chemical Engineering & Analytical Science, University of Manchester, UK |

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| <p>11:45 - 12:00</p> | <p>OAF2-31 CONSTRUCTION AND CHARACTERIZATION OF A PLATE-FIN TYPE REACTOR FOR HYDROGEN PRODUCTION SYSTEM</p> <p><u>Choji Fukuhara</u>, Faculty of Engineering, Hachinohe Institute of Technology; 88-1 Myo Ohbiraki, Hachinohe, Aomori, 031-8501, Japan; T: +81-178-25-8135, F: +81-178-25-6825, fukuhara@hi-tech.ac.jp</p> <p>Yoshiyuki Kamata, Faculty of Engineering, Hachinohe Institute of Technology</p> <p>Hironichi Ohkura, Faculty of Engineering, Hachinohe Institute of Technology</p> <p>Akira Igarashi, Faculty of Engineering, Kogakuin University</p> | <p>OGP2-53 THE REDUCTION OF NOX EMISSIONS USING SODIUM CHLORITE AND SODIUM SULFITE AT A WET GAS SCRUBBER TOWER</p> <p><u>Timothy A. Barckholtz</u>, ExxonMobil Research and Engineering; 3225 Gallows Road; 6A0206, Fairfax, VA, 22030, USA; T: 7038463585, F: 2623139383, tim.barckholtz@exxonmobil.com</p> <p>Anastasios Skoulidas, ExxonMobil Research and Engineering</p> |
| <p>12:00 - 12:15</p> | <p>OAF3-36 COMBINING FISCHER-TROPSCH (FT) AND HYDROCARBON REACTIONS UNDER FT REACTION CONDITIONS – CATALYST AND REACTOR STUDIES WITH CO OR FE AND PT/ZSM-5</p> <p><u>Alba Mena Subiranas</u>, Engler-Bunte-Institut, Bereich Gas, Erdöl und Kohle, Universität Karlsruhe (TH); Engler-Bunte-Ring 1, Karlsruhe, Baden-Württemberg, D-76131, Germany; T: +49-7216082564, F: +49-721606172, alba.mena@ciw.uni-karlsruhe.de</p> <p>Georg Schaub, Engler-Bunte-Institut, Bereich Gas, Erdöl und Kohle, Universität Karlsruhe (TH)</p> | <p>OGP3-61 TOWARDS THE CO-PROCESSING OF BIOMASS AND FOSSIL SOURCES IN FCC UNITS FOR AUTOMOTIVE FUEL PRODUCTION</p> <p><u>Marcelo E. Domine</u>, Institut de Recherches sur la Catalyse (IRC - CNRS); 2, Avenue Albert Einstein, Villeurbanne, Rhone-Alpes, 69626, France; T: +33472445424, F: +33472445399, marcelo.domine@catalyse.cnrs.fr, yves.schuurman@catalyse.cnrs.fr</p> <p>Yves Schuurman, Institut de Recherches sur la Catalyse (IRC - CNRS)</p> <p>André Van Veen, Institut de Recherches sur la Catalyse (IRC - CNRS)</p> <p>Claude Mirodatos, Institut de Recherches sur la Catalyse (IRC - CNRS)</p> |
| <p>12:15 - 12:30</p> | <p>OAF4-60 REFORMING OF DIESEL FUEL IN A MICRO REACTOR</p> <p><u>Janina Thormann</u>, Institute for Micro Process Engineering, Forschungszentrum Karlsruhe; Hermann-von-Helmholtz Platz 1, Eggenstein-Leopoldshafen, D-76137, Germany; T: +49 7247 82 5850, F: +49 7247 82 3186, janina.thormann@imvt.fzk.de</p> <p>Peter Pfeifer, Institute for Micro Process Engineering, Forschungszentrum Karlsruhe</p> <p>Ulrich Kunz, Institute of Chemical Process Engineering, Clausthal University of Technology</p> <p>Klaus Schubert, Institute for Micro Process Engineering, Forschungszentrum Karlsruhe</p> | <p>OGP4-82 MECHANISTIC MODELING OF TERTIARY RECYCLING OF POLYSTYRENE: REACTION PATHWAYS AND PRODUCT DISTRIBUTION</p> <p><u>Seth E. Levine</u>, Northwestern University; 2145 Sheridan Road Room E136, Evanston, IL, 60208, USA; T: 847-467-1402, F: 847-491-3728, s-levine2@northwestern.edu</p> <p>Linda J. Broadbelt, Northwestern University</p> |

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| <p>12:30 - 12:45</p> | <p>OAF5-103 BIODIESEL FROM FRESH AND FRIED VEGETABLE OIL. STUDY OF THE STABILITY</p> <p><u>Brito, A</u>, Chemical Engineering Department, University of La Laguna; Avda. Astrofisico Fco. Sanchez s/n, Facultad de Quimica, La Laguna, Santa Cruz de Tenerife, 38200, Spain; T: 34922318077, F: 34922318004, andbrito@ull.es</p> <p>Díaz M.C., Chemical Engineering Department, University of La Laguna</p> <p>Arvelo R., Chemical Engineering Department, University of La Laguna</p> <p>García M.T., Chemical Engineering Department, University of La Laguna</p> <p>García M.D. ; Irene A., Chemical Engineering Department, University of La Laguna</p> | <p>OCP5-124 DIMETHYL CARBONATE SYNTHESIS ON HETEROGENOUS, NON-TOXIC CATALYSTS.</p> <p><u>María Rosa Capeletti</u>, INCAPE; Santiago del Estero 2654, Santa Fe, Santa Fe, S3000AOJ, Argentina; T: +54 (342) 452-8062, F: +54 (342) 453-1068, mcapel@fiqus.unl.edu.ar</p> <p>Gabriela de la Puente, INCAPE</p> <p>Ulises Sedran, INCAPE</p> |
| <p>12:45-13:00</p> | <p>OAF6-118 PERFORMANCE OF A FLUIDIZED-BED MEMBRANE REACTOR FOR HIGH-PURITY HYDROGEN PRODUCTION</p> <p><u>Andrés Mahecha-Botero</u>, Department of Chemical and Biological Engineering, University of British Columbia; 2360 East Mall, Vancouver, Canada V6T1Z3, Vancouver, BC, V6T1Z3, Canada; T: (604) 8273174, F: (604) 8226003, andresm@chml.ubc.ca</p> <p>Tony Boyd, Department of Chemical and Biological Engineering, University of British Columbia, 2360 East Mall, Vancouver, Canada V6T1Z3. Membrane Reactor Technologies (MRT) Ltd., 200 Granville Street, Suite 1800. Vancouver, BC, Canada V6C1S4</p> <p>Nicholas Comyn, Ali Gulamhusein, Membrane Reactor Technologies (MRT) Ltd., 200 Granville Street, Suite 1800. Vancouver, BC, Canada V6C1S4</p> <p>C. Jim Lim, John R. Grace, Department of Chemical and Biological Engineering, University of British Columbia, 2360 East Mall, Vancouver, Canada V6T1Z3. Membrane Reactor Technologies (MRT) Ltd., 200 Granville Street, Suite 1800. Vancouver, BC, Canada V6C1S4 Yoshinori Shirasaki, Isamu Yasuda, Tokyo Gas Co.,Ltd. Yokohama, Japan 230-0045</p> | <p>OGP6-69 HYDROGENATION OF EDIBLE OILS TO LOW TRANS C18:1 ISOMER CONTENTS USING SUPRECRITICAL SOLVENTS: CFD MODELING OF A CONTINUOUS GAS-PHASE REACTOR</p> <p><u>Francesc Recasens</u>, Universitat Polècnica de Catalunya; Av. Diagonal 647, ETSEIB. Pab G-2, Barcelona, Barcelona, 08028, Spain; T: +34-934016676, F: +34-934017150, f.recasens@upc.edu</p> <p>Eliana Ramírez, Universitat Politècnica de Catalunya</p> <p>Alfredo Guardo, Universitat Politècnica de Catalunya</p> <p>M. Angels Larrayoz, Universitat Politècnica de Catalunya</p> |
| <p>13:00-13:15</p> | <p>OAF7-193 GREEN DIESEL: A SECOND GENERATION BIOFUEL</p> | |

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| | <p><u>Tom N. Kalnes</u>, UOP LLC, 135 N. Dover, LaGrange, Illinois, 60616, USA; T: 847-391-3496, F: 847-391-3737, Tom.Kalnes@uop.com</p> <p>Terry Marker, UOP LLC</p> <p>David R. Shonnard, Michigan Technological University</p> | |
| 13:15 -14:30 | Lunch at Euskalduna Centre | |
| 14:30 -16:00 | Afternoon Break | |
| | <p style="text-align: center;">Session XVI ALTERNATIVE FUELS Room</p> <p style="text-align: center;">Session Co-Chairs: Javier Erena, Universidad del Pais Vasco, Sang Done, Korea Advanced Institute of Science and Technology, Korea</p> | <p style="text-align: center;">Session XVII GREEN PROCESSES Room</p> <p style="text-align: center;">Session Co-Chairs: Javier Marugan, Universidad Rey Juan Carlos, Spain, Catalin Petre, Universite Laval, Canada</p> |
| 16:00 -16:15 | <p>OAF8-88 A MICROSTRUCTURED ETHANOL REFORMER AS HYDROGEN SOURCE FOR FUEL CELLS</p> <p><u>Gunther Kolb</u>, Institut für Mikrotechnik Mainz GmbH; Carl-Zeiss-Str.18-22, Mainz, D-55129, Germany; T: ++49-6131-990-341, F: ++49-6131-990-305, kolb@imm-mainz.de</p> <p>Y.Men,D.Tiemann, R.Zapf, V. Hessel, H. Löwe, Institut für Mikrotechnik Mainz GmbH (IMM)</p> <p>H.Ehrich, K.Jähnisch, Leibnitz Institute for Catalysis (LIKAT)</p> | <p>OGP7-51 ALKALINE OXIDATION OF HYDROSULFIDE AND METHYL MERCAPTIDE BY IRON/CERIUM OXIDE-HYDROXIDE IN PRESENCE OF DISSOLVED OXYGEN</p> <p><u>Catalin F. Petre</u> and Faiçal Larachi, Chemical Engineering Department, Laval University, Cite Universitaire, Quebec, Quebec, G1X1A1, Canada; T: 1-418-656-2131/4153, F: 1-418-656-5993, catalin-florin.petre.1@ulaval.ca</p> |
| 16:15 -16:30 | <p>OAF9-3 HYDROGEN PRODUCTION BY STEAM REFORMING OF METHANOL OVER CU AND NI BASED CATALYST</p> <p><u>Zahira Yaakob</u>, Universiti Kebangsaan Malaysia, Dept of Chemical and Process Engineering, UKM Bangi, Selangor, 43650, MALAYSIA; T: 0060389216420, F: 0060389216148, zahira@eng.ukm.my</p> | <p>OGP8-56 A NEW ROUTE FOR THE CONVERSION OF BIOMASS-DERIVED INTERMEDIATES INTO PETROCHEMICALS FOR BIOREFINERY</p> <p><u>Toshio Tsutsui</u>, Kagoshima University; 1-21-40 Korimoto, Kagoshima, 890-0065, Japan; T: +81-99-285-8366, F: +81-99-285-8366, tsutsui@cen.kagoshima-u.ac.jp</p> <p>Isamu Endo, Kagoshima University</p> <p>Kazuya Ijichi, Kagoshima University</p> |
| 16:30 -16:45 | <p>OAF10-57 MODELING OF SMB-TYPE RECTOR FOR HYDROGEN STORAGE BY IRON OXIDE WITH REVERSIBLE REACTION MECHANISM</p> <p><u>Hironori Imanishi</u>, Department of Chemical Engineering, Tokyo Institute of Technology; 2-</p> | <p>OGP9-58 PERFORMANCE TEST OF THE K₂CO₃-NA₂CO₃ EUTECTIC SALT REACTOR FOR THE DESTRUCTION OF CHLORINATED VOCS</p> <p><u>Hee-Chul Yang</u>, Korea Atomic Energy Research Institute; Dukjindong 150, Yuseong-gu, Daejeon, 305-253, Korea; T: +42-868-2575, F: +42-868-2329, nhcyang@kaeri.re.kr</p> |

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| | <p>12-1, O-okayama, Meguro-ku, Tokyo, 152-8552, JAPAN; T: +81-3-5734-2883, F: +81-3-5734-2883, taida@chemeng.titech.ac.jp</p> <p>Akira Maeda, Material & Processing Technology Department, Mitsubishi Electric Corporation</p> <p>Takeyuki Maegawa, Material & Processing Technology Department, Mitsubishi Electric Corporation</p> <p>Shigeru Matsuno, Energy Device Technology Department, Mitsubishi Electric Corporation</p> <p>Takashi Aida, Department of Chemical Engineering, Tokyo Institute of Technology</p> | <p>Yong-June Cho, Korea Atomic Energy Research Institute</p> <p>Hee-Chul Eun, University of Science and Technology</p> <p>Eung-Ho Kim, Korea Atomic Energy Research Institute</p> |
| <p>16:45 -17:00</p> | <p>OAF11-155 CFD MODELING OF METHANE PARTIAL OXIDATION FOR HYDROGEN PRODUCTION IN A MICRO- REACTOR</p> <p><u>Mohsen Behnam</u>, University of Tehran & University of Newcastle ; No. 45, Zyaii Alley, Montazeri St., Shohada Sq., Tehran, Iran; T: +98 912 2440771, F: +98 21 66957784, Mohsen.Behnam@Gmail.com</p> <p>Ali Fazeli, University of Tehran(IR)</p> <p>Behdad Moghtaderi, University of Newcastle (AU)</p> | <p>OGP10-154 MICROREACTION PLANTS FOR HANDLING OF AGGRESSIVE CHEMICALS</p> <p><u>Dr. Thomas R. Dietrich</u>, mikroglas chemtech GmbH, Galileo-Galilei-Str. 28, Mainz, RLP, 55129, Germany; T: +49-6131-55550-50, F: +49-6131-55550-52, T.Dietrich@mikroglas.com</p> <p>Andreas Freitag, mikroglas chemtech GmbH</p> <p>Ralf Scholz, mikroglas chemtech GmbH</p> |
| <p>17:00 -17:15</p> | | <p>OGP11-30 3D SIMULATION OF A SYMMETRIC MCFC STACK MODEL</p> <p><u>Pfafferodt, Matthias</u>, Otto-von-Guericke University Magdeburg; Universitätsplatz 2, Magdeburg, Saxony-Anhalt, 39130, Germany; T: +49 391 6110 445, F: +49 391 6110 545, matthias.pfafferodt@vst.uni-magdeburg.de</p> <p>Heidebrecht, Peter, Max-Planck-Institut Magdeburg</p> <p>Sundmacher, Kai, Max-Planck-Institut Magdeburg</p> |
| <p>17:15 -17:30</p> | | <p>OGP12-97 ANALYSIS OF TRANSPORT PROCESSES IN PEM FUEL CELLS USING IMPEDANCE SPECTROSCOPY</p> <p><u>Parrondo, J.</u>, Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country; P.O. BOX 644, Bilbao, Vizcaya, 48080, Spain; T: +34946015388, F: +34946013500, federico.mijangos@ehu.es</p> <p>Barrio, A., Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country</p> |

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| | | <p>Lombraña, J.I., Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country</p> <p>Mijangos, F., Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country</p> |
| 21:00 - 22:30 | <p>Vocal Concert, Lirain Abesbatza Ensemble Iglesia Quinta, Bilbao http://www.gorliz.net/cultura/lirain</p> | |

Thursday, August 30, 2007

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| | <p>Session XVIII Room Session Co-Chairs: Klaus Moller, University of Cape Town, South Africa, Guy Marin, Ghent University, Belgium</p> | |
| 09:00 - 09:50 | <p>MULTI-SCALE MODELING FOR CHEMICAL REACTORS Author: <i>Guy Marin</i>, Affiliation: University of Ghent, Belgium</p> | |
| 09:50 - 10:00 | <p><i>Discussion Period – Questions and Answers</i></p> | |
| 10:00 - 10:50 | <p>KINETICS AND MODELLING OF FISCHER-TROPSCH REACTIONS OVER COBALT CATALYSTS IN SLURRY REACTORS Authors: <i>Daniel Schweich</i> and <i>Pascal Fongarland</i> Affiliation: CNRES-LGPC, Lyon, France and USTL-LCL, Lille, France</p> | |
| 10:50-11:00 | <p><i>Discussion Period – Questions and Answers</i></p> | |
| 11:00 - 11:30 | <p>Coffee Break</p> | |
| | <p>Session XIX ENVIRONMENTAL REACTION ENGINEERING Room Session Co-Chairs: Ali Habibi, Universite Catholique de Louvaine, Belgium; Maria San Jose, Universidad del Pais Vasco, Spain</p> | <p>Session XX PYROLYTIC PROCESSES Room Session Co-Chairs: Rafael Maya Yescas, Universidad Mochoacana, Mexico, Javier Bilbao, Universidad del Pais Vasco</p> |
| 11:30 - 11:45 | <p>OERI-20 ELECTROMIGRATION OF CO-IONS AND COUNTER-IONS THROUGH CATION EXCHANGE MEMBRANES</p> <p><u><i>Parrondo, J.</i></u>, Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country; P.O. BOX 644, Bilbao, Vizcaya, 48080, Spain; T: 946015388, F: 946013500, federico.mijangos@ehu.es</p> <p>Uresandi, M., Department of Chemical Engineering,</p> | <p>OPPI-42 SIMULTANEOUS DEACTIVATION BY COKE AND SULFUR OF PT/H-ZEOLITE CATALYSTS DURING PYROLYSIS GASOLINE HYDRODEAROMATIZATION</p> <p><u><i>Pedro Castaño</i></u>, University of the Basque Country; Dep. Chemical Engineering, Lejona, Vizcaya, 644-48080, Spain; T: +34 946 015 341, F: +34 946 013 500, iqbcasap@ehu.es</p> <p>Barbara Pawelec, Jose L.G. Fierro, Instituto de Catálisis</p> |

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| | <p>Faculty of Science and Technology, University of the Basque Country</p> <p>Mijangos, F., Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country</p> | <p>y Petroleoquímica, CSIC</p> <p>Alazne Gutierrez, Miren J. Azkoiti, Jose M. Arandes, Javier Bilbao, University of the Basque Country</p> |
| 11:45 – 12:00 | <p>OER2-8 NANOSTRUCTURE ION-SIEVES FOR LITHIUM ADSORPTION</p> <p>Qin-Hui Zhang, State Key Lab of Chemical Engineering, College of Chemical Engineering, East China University of Science and Technology; East China University of Science and Technology, PO Box: 266, Shanghai, 200237, P. R. China; T: 86-21-64252171, F: 86-21-64252826, qhzhang@ecust.edu.cn</p> <p>Shaopeng Li, State Key Lab of Chemical Engineering, College of Chemical Engineering, East China University of Science and Technology</p> <p>Xiansheng Yin, State Key Lab of Chemical Engineering, College of Chemical Engineering, East China University of Science and Technology</p> <p>Shuying Sun, State Key Lab of Chemical Engineering, College of Chemical Engineering, East China University of Science and Technology</p> <p>Jianguo Yu, State Key Lab of Chemical Engineering, College of Chemical Engineering, East China University of Science and Technology</p> | <p>OPP2-157 A KINETIC STUDY ON THERMOOXIDATIVE DEGRADATION OF A METHACRYLATE COPOLYMER BY THERMAL ANALYSIS METHODS</p> <p>Ali Habibi, Université catholique de Louvain - UCL, Department of Material and Process – IMAP; Place Sainte Barbe, 2, Louvain-la-Neuve, Brabant wallon, B - 1348, Belgium; T: +32 (10) 47.24.88, F: 003210474028, habibi@imap.ucl.ac.be</p> <p>Juray De Wilde, Université catholique de Louvain - UCL, Department of Material and Process - IMAP</p> |
| 12:00 – 12:15 | <p>OER3-83 DETERMINATION OF THE INFLUENCE OF PH IN THE MG²⁺/NH₄⁺ EXCHANGE FOR THE STRUVITE FORMATION FROM SUPERSATURATED SOLUTIONS.</p> <p>Monika Ortueta, UPV/EHU Sarriena SN, Leioa, Bizkaia, 48930, Spain; T: +34946013384, F: +34946013500, monika.ortueta@ehu.es</p> <p>Arrate Celaya, UPV/EHU</p> <p>Federico Mijangos, UPV/EHU</p> <p>Dimitri Muraviev, UAB</p> | <p>OPP3-18 STUDY OF CHARS OBTAINED FROM SEWAGE SLUDGE PYROLYSIS IN BENCH SCALE REACTORS</p> <p>Javier Ábrego, University of Zaragoza; c/María de Luna 3, Zaragoza, Zaragoza, E-50018, Spain; T: +34 976 76 22 24, F: +34 976 76 18 79, javabr@unizar.es</p> <p>Laura Pascual, University of Zaragoza</p> <p>Joan J. Manyà, University of Zaragoza</p> <p>José L. Sánchez, University of Zaragoza</p> <p>M. Benita Murillo, University of Zaragoza</p> |
| 12:15 – 12:30 | <p>OER4-122 STUDY OF THE CONTROL OF ACTIVE PHASE LEACHING DURING THE HYDRODECHLORINATION OF HERBICIDES WITH METALLIC CATALYSTS SUPPORTED ON ACTIVATED CARBON BY OXIDATION OF THE SUPPORT</p> <p>L. Calvo, Sección de Ingeniería Química, Universidad</p> | <p>OPP4-41 INFLUENCE OF THE TEMPERATURE ON THE FORMATION OF SOOT FROM ETHYLENE PYROLYSIS</p> <p>M.P. Ruiz, Department of Chemical and Environmental Engineering, University of Zaragoza; C/ Maria de Luna 3, Zaragoza, 50018, Spain; T: 0034976761150, F: 0034976761879, pilruiz@unizar.es</p> |

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| | <p>Autónoma de Madrid; Facultad de Ciencias, Ciudad Universitaria de Cantoblanco, Madrid, 28049, Spain; T: 914978774, F: 914973516, luisa.calvo@uam.es</p> <p>M.A. Gilarranz, Sección de Ingeniería Química, Universidad Autónoma de Madrid</p> <p>J.A. Casas, Sección de Ingeniería Química, Universidad Autónoma de Madrid</p> <p>A.F. Mohedano, Sección de Ingeniería Química, Universidad Autónoma de Madrid</p> <p>J.J. Rodríguez, Sección de Ingeniería Química, Universidad Autónoma de Madrid</p> | <p>A. Callejas, Department of Chemical and Environmental Engineering, University of Zaragoza</p> <p>A. Millera, Department of Chemical and Environmental Engineering, University of Zaragoza</p> <p>U. Alzueta, Department of Chemical and Environmental Engineering, University of Zaragoza</p> <p>R. Bilbao, Department of Chemical and Environmental Engineering, University of Zaragoza</p> |
| 12:30 – 12:45 | <p>OER5-86 REUSED OF FRIED OIL TO OBTAIN BIODIESEL. ZEOLITES Y AS CATALYST</p> <p><u>Brito, A.</u>, Chemical Engineering Department, University of La Laguna; Avda. Astrofísico Fco. Sanchez s/n, Facultad de Química, La Laguna, Santa Cruz de Tenerife, 38200, Spain; T: 34922318077, F: 34922318004, andbrito@ull.es</p> <p>Borges, M.E., Chemical Engineering Department, University of La Laguna</p> <p>Arvelo, R., Chemical Engineering Department, University of La Laguna</p> <p>García, F., Chemical Engineering Department, University of La Laguna</p> <p>Díaz, M.C., Otero, N., Chemical Engineering Department, University of La Laguna</p> | <p>OPP5-47 A COMPARISON OF GASIFICATION WITH PYROLYSIS FOR CHEMICAL RECYCLING OF PLASTIC CONTAINING WASTES</p> <p>Ruby Ray, University of Surrey; Fluids & Systems, School of Engineering (D2), Guildford, GU2 7XH, UK; T: +44 (0) 7883019917, F: +44 (0) 1483 686581, ruby_che@yahoo.com</p> <p><u>Rex Thorpe</u>, Fluids & Systems, School of Engineering (D2), University of Surrey, UK</p> <p>Graham Rice, INEOS Technologies, UK</p> |
| 12:45 – 13:00 | <p>OER6-129 CATALYTIC PYROLYSIS OF HIGH DENSITY POLYETHYLENE ON A HZSM-5 ZEOLITE CATALYST IN A CONICAL SPOUTED BED REACTOR</p> <p><u>Elordi G.</u>, University of the Basque Country; P.O. BOX 644, Bilbao, Bizkaia, 48080, Spain; T: +34 94 6015414, F: +34 94 6013500, gelordi002@ikasle.ehu.es</p> <p>Lopez G. , Arabiourrutia M., Olazar M., Aguado R., Bilbao J., Dpt. of Chemical Engineering University of the Basque Country</p> | <p>OPP6-125 CHARACTERIZATION OF LIQUID OBTAINED IN TYRE PYROLYSIS IN A CONICAL SPOUTED BED REACTOR</p> <p><u>Miriam Arabiourrutia</u>, University of the Basque Country; PO Box 644– 48080, Bilbao, Spain; T: 946015414, F: 946013500, iqbargam@lg.ehu.es</p> <p>Gartzen Lopez, Gorka Elordi, Martin Olazar, Roberto Aguado, Javier Bilbao, University of the Basque Country</p> |
| 13:00- 13:15 | <p>OER7-72 FLUIDIZED BED REACTOR FOR RAW MATERIALS RECOVERY IN THE FLUORINE INDUSTRY</p> <p><u>A. Garea</u>, R. Aldaco, M. Valdor, A. Irabien, Dpt. Ingeniería Química y Química Inorgánica, ETSIIyT,</p> | <p>OPP7-132 INTEGRATION OF THERMAL TREATMENT AND CATALYTIC TRANSFORMATION FOR UPGRADING BIOMASS PYROLYSIS OIL</p> <p><u>Valle, Beatriz</u>, Departamento de Ingeniería Química, Universidad del País Vasco; P.O.Box 644, Bilbao,</p> |

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| | <p>Universidad de Cantabria; Avda. Los Castros, s/n, Santander, Cantabria, 39005, Spain; T: +34 942 201588, F: +34 942 201591, gareaa@unican.es</p> | <p>Bizkaia, 48080, Spain; T: +34-94-6015449, F: 34-94-6013500, igbvapab@lg.ehu.es</p> <p>Gayubo, A.G., Atutxa, A., Alonso, A., Bilbao, J., Departamento de Ingeniería Química, Universidad del País Vasco</p> |
| 13:15-13:30 | | <p>OPP8-143 MODELING AND SIMULATION OF TIRE PYROLYSIS IN HORIZONTAL ROTARY SEMI BATCH REACTOR</p> <p><i>Rachid Mabrouk</i>, Ecole Polytechnique de Montréal, Chemical Eng. Dep., Ecole Polytechnique de Montréal, C.P.6078, succ. Centre-Ville, Montreal, Quebec, H3C 3A7, Canada; T: 514 340 4711 #4034, F: 514 340 4159, rachid.mabrouk@polymtl.ca</p> <p>Jamal Chaouki, Ecole Polytechnique de Montréal</p> <p>Christophe Guy, Ecole Polytechnique de Montréal</p> |
| 13:30- 14:30 | Lunch at Euskalduna Centre | |
| 14:30 –16:00 | <p style="text-align: center;">SESSION XXI <i>Includes in addition to all the oral presentations of Sessions XIV,XV,XVI, XVII, XIX and XXIII</i> ALTERNATIVE FUELS, GREEN PROCESSES, ENVIRONMENTAL REACTION ENGINEERING, PYROLYTIC PROCESSES AND BIOCHEMICAL REACTION ENGINEERING</p> | |
| | <p>PAF1-24 AN ALTERNATIVE EXTRACTIVE PROCESS FOR BIOETHANOL PRODUCTION: OPERATIONAL STRATEGIES FOR LARGE SCALE SYSTEMS</p> <p><i>Elmer Alberto Copa Rivera</i>, State University of Campinas; School of Chemical Engineering, Cidade Universitária Zeferino Vaz, CEP: 13081-970, Campinas, São Paulo, 6066, Brazil; T: +55-19-3521-3970, F: +55-19-3521-3910, elmer@feq.unicamp.br</p> <p>Victor Alvarez, State University of Campinas</p> <p>Aline Carvalho da Costa, State University of Campinas</p> <p>Rubens Maciel Filho, State University of Campinas</p> | |
| | <p>PAF2-43 ADVANCED REACTOR CONCEPTS FOR ACETALS PRODUCTION FROM BIOALCOHOLS</p> <p><i>Pedro L. Arias</i>, E.T.S. de Ingeniería. Universidad del País Vasco; Alameda de Urquijo s/n, Bilbao, 48013, SPAIN; T: +34946014069, F: +34946014179, pedroluis.arias@ehu.es</p> <p>Diego Herrero, E.T.S. de Ingeniería. Universidad del País Vasco</p> <p>Laura Barrio, E.T.S. de Ingeniería. Universidad del País Vasco</p> <p>Jesús Requies, E.T.S. de Ingeniería. Universidad del País Vasco</p> | |

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| | <p>PER1-9 ADSORPTION OF MALACHITE GREEN DYE ONTO CHEMICALLY ACTIVATED HEVEA BRASILIENSIS SAWDUST: ISOTHERM, KINETICS AND MASS TRANSFER STUDIES.</p> <p><u>Lima Rose Miranda</u>, Alagappa College of Technology, Anna University, Department of Chemical Engineering, Alagappa College of Technology, Anna University, Chennai- 600 025, India, Chennai, Tamil Nadu, 600 025, India; T: 22203533, F: none, limarmiranda@yahoo.co.in</p> <p>B.G.Prakash Kumar, Alagappa College of Technology, Anna University</p> <p>S.Rajgopal, Alagappa College of Technology, Anna University</p> <p>T.Karthikeyan, Alagappa College of Technology, Anna University</p> |
| | <p>PER2-11 REMOVAL OF HEAVY METALS VIA INTERACTION BY HUMIC ACID IN AQUEOUS MEDIA AND INVESTIGATION OF THE EFFECTIVE FACTORS THROUGH RESPONSE SURFACE METHOD</p> <p><u>Nima Razzaghi</u>asl, Environmental science department- Institute for Colorants, Paints and Coating; Pasdaran st. Hossein abad sq. No.58, Tehran, Tehran, 1668814811, Iran; T: +9821-22956126, F: +9821- 22947538, nrazzaghi@gmail.com</p> <p>Mahmood Abbasi, Environmental science department- Institute for Colorants, Paints and Coating</p> <p>F. Naghizadeh, Tirtash Education and Research Center – Behshahr – Iran.</p> <p>SH. Hosseini, Tirtash Education and Research Center – Behshahr – Iran.</p> |
| | <p>PER3-29 PREDICTION OF THE VISCOSITY OF VACUUM GAS OIL-LOW DENSITY POLYETHYLENE BLENDS AT VARIOS CONCENTRATIONS AND TEMPERATURES</p> <p><u>Andrew. O. Odjo</u>, University of Alicante; Research Institute of Chemical Process Engineering, University of Alicante P. O. Box 99, Alicante, Alicante, 03080, Spain; T: +34 965903400 Ext. 2386, F: +34 965902836, andrew.odjo@ua.es</p> <p>Antonio Marcilla, J. C. Garcia-Quesada</p> <p>Amparo Gómez-Siurana, Rosa N. Martinez</p> |
| | <p>PER4-33 PREPARATION, CHARACTERIZATION AND ACTIVITY OF CU/CE(OR CR)/AL OXIDE CATALYSTS FOR OXIDATIVE STEAM REFORMING OF METHANOL</p> <p><u>Sanjay Patel</u>, Indian Institute of Technology; Indian Institute of Technology, Chemical Engineering Department, Block-II, Hauz Khas, New Delhi, Delhi, 110016, INDIA; T: 91 9868719352, F: 91 11 26581120, sanjay9patel@yahoo.com</p> <p>K.K. Pant, Indian Institute of Technology, New Delhi, India</p> |
| | <p>PER5-68 HYDROLYSIS AND CATALYTIC HYDROGENOLYSIS OF BIOMASSE CARBOHYDRATES IN SLURRY REACTOR</p> <p><u>Cesar A. Moraes de Abreu</u>, Federal University of Pernambuco; Rua Tereza Melia s/n, Recife, Pernambuco, 50740-521, Brazil; T: 55.81 21268901, F: 55.81 21267289, cesar@ufpe.br</p> <p>Nelson M. Lima Filho, Federal University of Pernambuco</p> |
| | <p>PER6-93</p> |

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| | <p>UNDERSTANDING THE CHEMICAL REACTION AND MASS TRANSFER STEPS IN A RECIRCULATING ENZYMATIC MEMBRANE REACTOR FOR GREEN ESTER SYNTHESIS IN IONIC LIQUID/SUPERCRITICAL CARBON DIOXIDE BIPHASIC SYSTEMS</p> <p><i>F. J. Hernández</i>, A. P. de los Ríos, D. Gómez, M. Rubio, F. Tomás-Alonso, G. Villora, Department of Chemical Engineering, Faculty of Chemistry, University of Murcia; Campus de Espinardo, E-30100, Espinardo, Murcia, P.O. Box 4021, Spain; T: (+0034) 968 367 515, F: (+0034) 968 364 148, fjhernan@um.es</p> |
| | <p>PER7-130 GREEN PULP AND PAPER MILL</p> <p><i>Jalel Labidi</i>, University of the Basque Country; Plaza Europa 1, San Sebastian, 20018, Spain; T: +34943017178, F: +34 943017130, jalel.labidi@ehu.es</p> <p>Maria González, Alvaro Tejado, Cristina Peña, Iñaki Mondragon,</p> |
| | <p>PER8-138 ULTRAVIOLET CROSS-LINKED FUNCTIONALIZED POLY VINYL ALCOHOL AS ENVIRONMENT FRIENDLY MATERIAL FOR PRINTING PLATE</p> <p><i>Yurii Nizelskii</i>, Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine Kharkov chausse,48, Kiev, Ukraine, 02160, Ukraine; T: +(38044)5510386, F: +(38044)5510386, Nizelsky@bigmir.net</p> <p>Nataly Kozak, Institute of Macromolecular Chemistry, National Academy of Sciences of Ukraine Yurii Kukura, Volodimir Shibanov, Ukrainian Poligraphy Academy, Lviv, Ukraine</p> |
| | <p>PER9-189 ENVIRONMENTAL GASOLINE AND DIESEL POOL BY HYDROTREATING OF FLUID</p> <p><i>Khalifa Galal Eldin Mohamed</i>, Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, 2Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, Kosti P.O. Box 209, Sudan, 2Dept. of Chem. Eng., Faculty of Eng. & Technology, University of El Imam Elmohadi, Kosti P.O. Box 209, Sudan, white Nile, 207, Sudan; T: 00249912982376, F: 00249912982376, gmkhalifa@hotmail.com</p> <p>Cheng Zhen Min1, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China Lu Shan Xiang, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China Yuan Wei Kang, State Key Laboratory of Chemical Reaction Engineering, East China University of Science and Technology, Shanghai 200237, Peoples Republic of China</p> |
| | <p>PER10-84 INFLUENCE OF PRESS ON MEA ASSEMBLY AND PEMFC PERFORMANCE</p> <p><i>Arantza Barrio</i>, UPV/EHU; Sarriena SN, Leioa, Bizkaia, 48930, Spain; T: +34946015388, F: +34946013500, monika.ortueta@ehu.es</p> <p>Javier Parrondo, UPV/EHU Maria Uresandi, UPV/EHU</p> |

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| | <p>Federico Mijangos, UPV/EHU</p> <p>Jose Ignacio Lombraña, UPV/EHU</p> |
| | <p>PER11-123 STEPWISE DIA-ULTRAFILTRATION SYSTEM IN THE PROCESSING OF PECTIN BY PRODUCTS</p> <p><u>Zayniddin K. Muhidinov</u>, Chemistry Institute of Tajikistan Academy of Sciences; 299/2 Ainy Str., Dushanbe, 734063, Tajikistan; T: 992 37 2257893, F: 992 37 2257893, zayniddinm@yahoo.com</p> <p>Jamshed Bobokalonov, Muzafar Akhmedov</p> <p>Djurabay Khalikov,</p> |
| | <p>PER12-170 APPLICATION OF AUTO-CYCLIC REACTOR FOR THE REMOVAL OF UNBURNED METHANE FROM EMISSIONS OF NATURAL GAS ENGINES</p> <p><u>Massimiliano Zanoletti</u>, Department of Chemical Engineering, Ecole Polytechnique, P.O. Box 6079, Station Centre-ville, Montreal, QC, H3C 3A7, Canada; T: +1 514 340 4711 ext.4932, F: +1 514 340 4159, massimiliano.zanoletti@polymtl.ca</p> <p>Danilo Klvana, Jitka Kirchnerova, Michel Perrier, Christophe Guy, Department of Chemical Engineering, Ecole Polytechnique</p> |
| | <p>PPP1-19 SYNTHESIS OF CARBON NANOTUBES IN TUBULAR SPRAY PYROLYSIS REACTORS: TWO-DIMENSIONAL PSEUDOSTATIONARY MODEL</p> <p><u>Julio César Calva-Yáñez</u>, Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo; Ciudad Universitaria, Edificio 'M', Morelia, Michoacán, 58060, México; T: +52 443 327 3584, F: +52 443 316 7176, julio_ccy@yahoo.com.mx</p> <p>Rafael Maya-Yescas, Javier Lara-Romero, Miguel Angel Morales-Cabrera, Facultad de Ingeniería Química, Universidad Michoacana de San Nicolás de Hidalgo</p> <p>Gabriel Alonso-Nuñez, Departamento de Química de Materiales, Centro de Investigaciones en Materiales Avanzados, S.C.</p> |
| | <p>PPP2-28 FLOW BEHAVIOUR OF BLENDS OF VACUUM GAS OIL AND LOW DENSITY POLYETHYLENE BLENDS</p> <p><u>Andrew. O. Odjo</u>, University of Alicante; Institute of Chemical Processes Engineering, University of Alicante P. O. Box 99, Alicante, Alicante, 03080, Spain; T: +34 965903400 Ext. 2386, F: +965902836, andrew.odjo@ua.es</p> <p>Antonio Marcilla, J. C. García-Quesada</p> <p>Amparo Gómez-Siurana, Rosa N. Martínez</p> <p>Deseada Berenguer,</p> |
| | <p>PPP3-77 CFD SIMULATION AND EXPERIMENTAL STUDY OF HYDRODYNAMICAL BEHAVIOUR OF A CONICAL SPOUTED BED REACTOR FOR FAST PYROLYSIS OF WOOD PELLETS</p> <p><u>L. Diaz</u>, I. Alava, J. Makibar, A. R. Fernández, F. Cueva, Ikerlan; Arizmendiarieta, Arrasate, Gipuzkoa, 146, España; T: +34 943 712400, F: +34 943 796944, ldiaz@ikerlan.es</p> |

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| | M. Olazar, R. Aguado, UPV-EHU |
| | <p><i>PPP4-79</i> CATALYTIC STEAM REFORMING OF MODEL COMPOUNDS OF THE AQUEOUS FRACTION OF BIOMASS PYROLYSIS LIQUIS (BIO-OIL)</p> <p><u>Lucia Garcia</u>, University of Zaragoza; María de Luna 3, Edificio Torres Quevedo, Zaragoza, 50018, SPAIN ; T: 34-976-762194, F: 34-976-761879, luciag@unizar.es</p> <p>Fernando Bimbela, University of Zaragoza</p> <p>Miriam Oliva, University of Zaragoza</p> <p>Joaquin Ruiz, University of Zaragoza</p> <p>Jesus Arauzo, University of Zaragoza</p> |
| | <p><i>PBC1-98</i> KINETIC RESOLUTION OF RAC-1-PHENYLETHANOL CATALYZED BY IMMOBILIZED LIPASE B FROM CANDIDA ANTARCTICA IN THE IONIC LIQUID 1-BUTYL-3-METHYLIMIDAZOLIUM BIS[(TRIFLUOROMETHYL)SULFONYL]IMIDE</p> <p><u>F. J. Hernández</u>, A. P. de los Ríos, M. Rubio, D. Gómez, F. Tomás-Alonso, G. Vllora, Department of Chemical Engineering, Faculty of Chemistry, University of Murcia; Campus de Espinardo, E-30100, Espinardo, Murcia, P.O. Box 4021, Spain; T: (+0034) 968 367 515, F: (+0034) 968 364 148, fjhernan@um.es</p> |
| | <p><i>PBC2-102</i> INFLUENCE OF IONIC LIQUID MEDIA ON THE ACTIVITY, SELECTIVITY AND STABILITY OF CANDIDA ANTARCTICA LIPASE B IN TRANSESTERIFICATION REACTIONS.</p> <p><u>A. P. de los Ríos</u>, F. J. Hernández-Fernández, M. Rubio, F. Tomás-Alonso, D. Gómez, G. Vllora, Department of Chemical Engineering, Faculty of Chemistry, University of Murcia; Campus de Espinardo, E-30100, Espinardo, Murcia, P.O. Box 4021, Spain; T: (+0034) 968 367 515, F: (+0034) 968 364 148, aprios@um.es</p> |
| | <p><i>PBC3-104</i> UNDERSTANDING THE CHEMICAL REACTION AND MASS TRANSFER STEPS IN A RECIRCULATING ENZYMATIC MEMBRANE REACTOR FOR GREEN ESTER SYNTHESIS IN IONIC LIQUID/SUPERCritical CARBON DIOXIDE BIPHASIC SYSTEMS</p> <p><u>F. J. Hernández-Fernández</u>, A. P. de los Ríos, D. Gómez, M. Rubio, F. Tomás-Alonso, G. Vllora, Department of Chemical Engineering, Faculty of Chemistry, University of Murcia; Campus de Espinardo, E-30100, Espinardo, Murcia, P.O. Box 4021, Spain; T: (+0034) 968 367 515, F: (+0034) 968 364 148, fjhernan@um.es</p> |
| | <p><i>PBC4-146</i> STUDY OF MASS TRANSFER PROCESSES AND ENZYME ACTIVITY IN A BIPHASIC REACTOR FOR PAHS TREATMENT</p> <p><u>Eibes, G.</u>, University of Santiago de Compostela, Rua Lope Gomez de Marzoa, ETSE, Santiago de Compostela, A Coruña, 18782, Spain; T: +34981563100, F: +34981528050, geibes@usc.es</p> <p>Pedertz, A., University of Santiago de Compostela</p> <p>Moreira, MT., University of Santiago de Compostela</p> <p>Feijoo, G., University of Santiago de Compostela</p> <p>Lema, JM., University of Santiago de Compostela</p> |
| | <p><i>PBC5-161</i> THREE PHASE BIOFILTER MODEL FOR REMOVAL OF STYRENE THROUGH MICROBIAL</p> |

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| | <p>ROUTE</p> <p><u><i>Chhaya Das</i></u>, Department of Chemical Engineering; Jadavpur University, Kolkata, West Bengal, 700032, India T: 03324146666, F: 03324146378, dchhaya2000@yahoo.co.in</p> <p>Dr. Ranjana Chowdhury, Department of Chemical Engineering, Jadavpur University, Kolkata 700032</p> <p>Dr. Pinaki Bhattacharya, Department of Chemical Engineering, Jadavpur University, Kolkata 700032</p> |
| | <p><i>PGPI-22</i> PROPOSAL OF PROCESS INTENSIFICATION AND GREEN TECHNOLOGY FOR ETHYL ACETATE PRODUCTION</p> <p><u><i>Custodio, Aline Ferrão</i></u>, State University of Campinas – UNICAMP; P.O. BOX 6066, ZIP 13081-970, Campinas, São Paulo, 13081-970, Brazil; T: 55 19 35213900, F: 55 19 35213910, alinefc@feq.unicamp.br</p> <p>Maciel Filho, Rubens, State University of Campinas - UNICAMP</p> <p>Wolf Maciel, Maria Regina, State University of Campinas – UNICAMP</p> |
| | <p><i>PAF10-114</i> EFFECT OF COBENTATION METHOD ON THE BEHAVIOUR OF A CATALYTIC REACTOR FOR HYDROGEN PRODUCTION</p> <p><u><i>Lucia Salemme</i></u>, Department of Chemical Engineering, University of Naples Federico II ; P.le V. Tecchio 80, Naples, 80125, Italy; T: +390817682269, F: +390812391800, lucia.salemme@unina.it</p> <p>Marino Simeone, Department of Chemical Engineering, University of Naples Federico II</p> <p>Stefano Soria, Department of Chemical Engineering, University of Naples Federico II</p> <p>Lorella Marturano, Department of Chemical Engineering, University of Naples Federico II</p> <p>Gennaro Volpicelli, Department of Chemical Engineering, University of Naples Federico II</p> |
| 16:00 - 18:00 | <i>Visit to the Guggenheim Museum</i> |
| 21:00 - 22:30 | <i>Conference Banquet at Nervion Hotel</i> |

Friday August 31, 2007

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| | <p style="text-align: center;"><i>Session XXII</i> <i>Room</i> <i>Session Co-Chairs: Eleazar Escamilla, Instituto Tecnológico de Celaya, Mexico, Jose Maria Arandes Universidad del País Vasco</i></p> |
| 09:00 - 09:50 | <p>SYNTHESIS OF BIODIESEL FROM VARIOUS EDIBLE AND NON-EDIBLE OILS AND EFFICIENT UTILIZATION OF CRUDE GLYCEROL Author: <i>Ajay Dalai</i> Affiliation: University of Saskatchewan, Canada</p> |
| 09:50 - 10:00 | <p><i>Discussion Period – Questions and Answers</i></p> |
| | <p style="text-align: center;"><i>SESSION XXIII</i></p> |

| | BIOCHEMICAL REACTION ENGINEERING <i>Room</i> <i>Session Co-Chairs: M. Josefina Renedo Omaechevarría, University of Cantabria, Spain; Bing H Chen, University College London, England</i> |
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| 10:00 - 10:15 | <p>OCB1-145 TRANSPORT AND REACTION MODEL IN AN UPFLOW ANAEROBIC FIXED BED REACTOR FOR THE REDUCTION OF AN AZO REACTIVE RED DYE</p> <p><u><i>Eleazar M. Escamilla Silva</i></u>, Instituto Tecnológico de Celaya, Ave. Tecnológico y Antonio García Cubas S/N, Celaya, Guanajuato, 38010, México; T: (461)61 17575 ext.202 y 131, F: (461)61 17744, eleazar@itc.mx and eleazar@iqcelaya.itc.mx</p> <p>Hugo Jiménez Islas, Linda V. González Gutiérrez, Instituto Tecnológico de Celaya</p> |
| 10:15 - 10:30 | <p>OCB2-25 MODELLING OF THE DEGRADATION OF WATER POLLUTANTS IN BIOFILM REACTORS</p> <p><u><i>Elizabeth León-Becerril</i></u>, Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo; Edificio M, Ciudad Universitaria, Morelia, Michoacán, 58060, México; T: (+52-443) 327 3584, F: (+52-443) 316 7176, eliza_leon@yahoo.com, rmayay@zeus.umich.mx</p> <p>Rafael Maya Yescas, Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo</p> |
| 10:30 - 10:45 | <p>OCB3-158 SYSTEMATIC EVALUATION OF ALTERNATIVE BIOCATALYTIC SYNTHETIC ROUTES TO D-XYLULOSE-5-PHOSPHATE</p> <p><u><i>John M Woodley</i></u>, Department of Chemical Engineering, Technical University of Denmark, Lyngby, 2800, Denmark; T: +44 20 7679 3778, F: +44 20 7916 3943, jw@kt.dtu.dk</p> <p>Jobin Shaeri, University College London</p> <p>Roland Wohlgemuth, Sigma-Aldrich Chemie GmbH</p> |
| 10:45 - 11:00 | <p>OCB4-115 MEMBRANE-ATTACHED BIOFILM REACTOR BEHAVIOR FEEDING SUBSTRATE BY SUCCESSIVE PULSES FOR THE TREATMENT OF SYNTHETIC WASTEWATER</p> <p><u><i>Dr. Felipe López-Isunza</i></u>, Universidad Autónoma Metropolitana; Av. San Rafael Atlixco 168, Col. Vicentina, Iztapalapa. A.P. 55-534., México, D. F., D. F., 09340, México; T: 52-5558044956, F: 52-5558044900, felipe@xanum.uam.mx</p> <p>Dra. Margarita M. González-Brambila, Universidad Autónoma Metropolitana</p> |
| 11:00 - 11:15 | <p>OCB5-63 FIRST ESSAYS FOR CADMIUM WASTEWATER ELIMINATION BY SULPHATE-REDUCING BACTERIA</p> <p>Josefa Fernández Ferreras, Hipólito García Posadas, University of Cantabria</p> <p><u><i>M. Josefina Renedo Omaechevarría</i></u>, University of Cantabria, Department of Chemical Engineering and Inorganic Chemistry, Avda. de los Castros s/n, Santander, Cantabria, 39005, Spain T: 34-42-202026, F: 34-42-201591</p> <p>José Luis Rico Gutiérrez, University of Cantabria</p> |

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| 11:15 – 11:30 | <p>OCB6-135 BIOMASS GROWTH AND CONTROL IN BATCH EXPERIMENTS FOR BIOFILTER OPERATION</p> <p><u>A. Barona</u>, University of the Basque Country; Alda Urkijo s/n, Bilbao, Vizcaya, 48013, SPAIN T: 94 601 4110, F: 94 601 4179, astrid.barona@ehu.es</p> <p>A. Elías, MJ. Moura, M. Fernandez, G. Gallastegi, M. Larrañaga, G. Ibarra-Berastegi, University of the Basque Country</p> |
| 11:30 – 11:45 | <p>OCB7-144 BIODEGRADATION OF AZO DYES IN AN UPFLOW ANAEROBIC SLUDGE BLANKET (UASB) BIOREACTOR</p> <p><u>Eleazar M. Escamilla Silva</u>, Departamento de Ing. Química; Instituto Tecnológico de Celaya, Ave. Tecnológico y Antonio García Cubas S/N, Celaya, Guanajuato, 38040, México; T: (461)61 17575 ext.202 y 131, F: (461)61 17744, eleazar@itc.mx and eleazar@iqcelaya.itc.mx</p> <p>Guillermo Vidriales Escobar, Omar González Ortega, Vicente Rico Ramirez, Guillermo González Alatorre, Instituto Tecnológico de Celaya</p> |
| 11:45 – 12:00 | <p>OCB8-159 SYSTEMATIC EVALUATION OF ALTERNATIVE BIOCATALYST FORMS FOR ASYMMETRIC CARBON-CARBON BOND FORMATION</p> <p><u>Bing H Chen</u>, University College London; Torrington Place, London, WC1E 7JE, UK; T: +44 20 7679 2495, F: +44 20 7916 3943, bing.chen@ucl.ac.uk</p> <p>Martina Micheletti, University College London</p> <p>John M Woodley, Technical University of Denmark</p> <p>Gary J Lye, University College London</p> |
| 12:00 – 12:15 | <p><i>Conference Adjournment</i></p> |
| 12:20 | <p><i>Lunch at Euskaduna Centre</i></p> |