

PROGRAM

Chemical Reactor Engineering X: *Innovations in Chemical Reactor Engineering*

August 28-September 2, 2005

**The Hotel Howard Johnson Zacatecas
Blvd. Adolfo Lopez Mateos & Callejon del Barro S/N,
Zacatecas, Zac., Mexico
Phone 52-492-922-3311**

Co-Chairs
Hugo de Lasa
University of Western Ontario, Canada
Benito Serrano Rosales
Universidad Autonoma de Zacatecas, Mexico
Franco Berruti
University of Western Ontario, Canada
Hans Kuipers
University of Twente, The Netherlands

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- Chemical Reactor Engineering Centre, University of Western Ontario, Canada
- The University of Western Ontario, Canada
- Universidad Autónoma de Zacatecas, México
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IMPORTANT ANNOUNCEMENTS

- All meals, full technical sessions, parallel sessions, coffee breaks and poster sessions will be in the Howard Johnson Zacatecas hotel. The exception will be the session on Tuesday , August 30, 2005 (15:00-17:30), that will take place in the Felguerez amphitheatre.

Conference Themes:

- **Theme I:** Green Chemistry and Environmental Reaction Engineering
- **Theme II:** Fuel cells
- **Theme III:** Multiphase Reaction Engineering
- **Theme IV:** Novel Reactors and Sensor Technologies
- **Theme V:** Computational Fluid Dynamics
- **Theme VI:** Modeling in Chemical Reaction Engineering
- **Theme VII:** Catalytic Processes and Catalytic Distillation
- **Theme VIII:** Biochemical Reaction Engineering

Sunday, August 28, 2005

17:30 –20:00	Registration
20:00-21:30	Dinner- Welcome Reception-Turquesa Room
21:30-22:00	Opening remarks
22:00 - 23:00	Social Hour

Monday August 29, 2005

07:00 - 08:15	<i>Breakfast Buffet-Turquesa Room</i>	
08.15-08:45	<i>Conference Welcome and Overview- Esmeralda Room</i> <i>Hugo de Lasa</i> , Conference Co-Chair <i>Herman Bieber</i> , Engineering Conference International Liaison	
	<p><i>Session I: Esmeralda Room</i> <i>Novel Reactors and Green Chemistry: Membrane and Fluidization Reactor Engineering</i> <i>Session Co-Chairs: Alberto Ravella, Exxon, Thierry Gauthier, IFP, France</i></p>	
08:45 - 09:30	HYDROGEN PRODUCTION IN FLUIDIZED BEDS WITH IN-SITU MEMBRANES –143- Authors: <i>John R. Grace, Said Elnashaie and Jim Lim-</i> Affiliation: University of British Columbia, Canada, jgrace@chml.ubc.ca	
09:30 – 09:45	<i>Discussion Period – Questions and Answers</i>	
9:45 - 10:30	INORGANIC MEMBRANES FOR CONVENTIONAL AND REACTIVE GAS SEPARATIONS – 138- Author: <i>Theodore T. Tsotsis</i>	
10:30 – 10:45	Affiliation: University of Southern California, USA, ttsotsis@earthlink.net <i>Discussion Period – Questions and Answers</i>	
10:45 – 11:15	<i>Coffee Break</i>	
	<p><i>Session Iia: MEMBRANE REACTOR ENGINEERING</i> <i>Esmeralda Room</i> <i>Session Chairs: S. Elnashaie, University of British Columbia, M. San Jose, Universidad del País Vasco, Spain</i></p>	<p><i>Session Iib: FLUIDIZED BED REACTOR ENGINEERING</i> <i>Granates Room</i> <i>Session Chairs: J. Grace, University of British Columbia, J. Chaouki, Ecole Polytechnique, Montréal</i></p>
11:15 – 11:30	<p><i>Smit, J</i> – 99 -; Affiliation University of Twente, P.O. Box 217 7500 AE, Enschede, The Netherlands, T: j.smit@tnw.utwente.nl <i>G. Bekink</i>, University of Twente <i>M. van Sint Annaland</i>, University of Twente <i>J.A.M. Kuipers</i>, University of Twente A REVERSE FLOW CATALYTIC MEMBRANE REACTOR FOR THE PRODUCTION OF SYNGAS: AN EXPERIMENTAL STUDY</p>	<p><i>Granly Hansen Kim</i> - 54 – Affiliation: Aalborg University Esbjerg; Niels Bohrs Vej 8, Esbjerg, DK-6700, Denmark; granly@auc.auc.dk <i>Tron Solberg</i>, Aalborg University Esbjerg <i>Bjorn H. Hjertager</i>, Aalborg University Esbjerg A STUDY OF THE INFLUENCE OF MESH REFINEMENT AND NUMBER OF EULERIAN PHASES IN MULTIFLUID MODELING OF GAS/PARTICLE FLOWS USING A PARALLELIZED CODE</p>
11:30 – 11:45	<p><i>Boyd Tony</i> – 93 -Affiliation: University of British Columbia, 2216 Main Mall, Vancouver, BC, V6T 1Z4, Canada, tboyd@chml.ubc.ca <i>J.R. Grace, C.J. Lim</i>, University of British Columbia <i>A.M. Adris</i>, Membrane Reactor Technologies Ltd. (Vancouver BC) HYDROGEN FROM AN INTERNALLY CIRCULATING FLUIDIZED BED MEMBRANE REACTOR</p>	<p><i>Gauthier Thierry</i> - 48 – Affiliation: IFP Lyon; BP 3, Vernaison, Rhone, 69390, France; thierry.gauthier@ifp.fr <i>Regis Andreux, Jan Verstraete</i>, IFP Lyon <i>Romain Roux</i>, Axens INDUSTRIAL DEVELOPPEMENT AND OPERATION OF AN EFFICIENT RISER SEPARATION SYSTEM FOR FCC UNITS</p>

11:45 – 12:00	<p>Zhang Wenxing - 77 -Affiliation: University of Twente, Faculty of Science and Technology, Enschede, 7500 AE, The Netherlands, w.zhang@tnw.utwente.nl M. van Sint Annaland, J. A. M. Kuipers, University of Twente</p> <p>INVESTIGATION OF OXYGEN PERMEATION THROUGH DENSE PEROVSKITE MEMBRANE UNDER REDUCING AND NON-REDUCING ATMOSPHERES</p>	<p>Chaouki Jamal, Ramin Radmanesh, Rachid Mabrouk, Christophe Guy – 107 - Affiliation: Department of Chemical Engineering, l'École Polytechnique de Montréal, P.O. Box 6079, Station Centre-ville, Montréal, QC, H3C 3A7, Canada, jamal.chaouki@polymtl.ca</p> <p>EFFECT OF TEMPERATURE ON SOLIDS MIXING IN A BUBBLING FLUIDIZED BED REACTOR</p>
12:00 – 12:15	<p>Mahecha-Botero, Andres - 109 - Affiliation: Department of Chemical and Biological Engineering, University of British Columbia, 2216 Main Mall, Vancouver, British Columbia, V6T 1Z4, Canada, andresm@chml.ubc.ca John Grace, S.E.H. Elnashaie, C. Jim Lim, University of British Columbia</p> <p>COMPREHENSIVE MODELLING OF GAS FLUIDIZED-BED REACTORS ALLOWING FOR TRANSIENTS, MULTIPLE FLOW REGIMES AND SELECTIVE REMOVAL OF SPECIES</p>	<p>Croxford A.J. - 47 - Affiliation: University of Bristol; Department of Mechanical Engineering, University Walk, Bristol, BS8 1TR, U.K.; a.j.croxford@bristol.ac.uk A.J.L.Harrison, M.A.Gilbertson, University of Bristol</p> <p>THE OPTIMISATION OF PRESSURE MEASUREMENTS FOR THE CONTROL OF BUBBLING FLUIDIZED BEDS</p>
12:15 – 12:30	<p>Uemura Yoshimitsu - 25 – Affiliation: Kagoshima University, 1-21-40 Korimoto, Kagoshima, Kagoshima, 890-0065, Japan yuemura@cen.kagoshima-u.ac.jp Kazuyuki Morita, Yoshihiro Ohzuno, Yasuo Hatate, Kagoshima University</p> <p>DEHYDROGENATION OF ETHANE AND HYDROGENATION OF CARBON DIOXIDE IN A CATALYTIC MEMBRANE REACTOR USING COPPER-PLATED LAMINAR AS A MEMBRANE MATERIAL</p>	<p>Mabrouk Rachid, Ramin Radmanesh, Jamal Chaouki, Christophe Guy; - 106 - Affiliation: Department of Chemical Engineering, Ecole Polytechnique de Montreal, C.P. 6078, succ. Centre-Ville., Montreal, Quebec, H3C 3A7, Canada, jamal.chaouki@polymtl.ca</p> <p>SCALE EFFECT ON FLUIDIZED BED HYDRODYNAMICS</p>
12:30 – 14:00	<i>Lunch-Turquesa Room</i>	
14:00 - 17:30	<i>Ad hoc Session and/or Free Time. Guided Visit Cerro de la Bufa</i>	
17:30-18:00	<i>Afternoon Coffee</i>	
<p>SESSION III MODELLING IN REACTOR ENGINEERING AND FLUIDIZED BED REACTOR ENGINEERING</p>		
18:00 - 19:30	<p>Session IIIa: CHEMICAL REACTOR ENGINEERING MODELLING Esmeralda Room Session Co-Chairs: A.Ravella, Exxon, G. Laredo, IMP</p>	<p>Session IIIb: FLUIDIZED BED REACTOR ENGINEERING Granates Room Session Co-Chairs: L. Cedeno, Universidad Nacional Autónoma de Mexico, R. Gupta, Exxon</p>
18:00 - 18:15	<p>Ochoa-Tapia J. A. - 82 – Affiliation: Universidad Autónoma Metropolitana, Area de Ingeniería Química, Unidad Iztapalapa, México., D.F., 09340, MEXICO, jaot@xanum.uam.mx M. A. Morales Cabrera, Universidad Autónoma Metropolitana, J.O. Marroquín de la Rosa, Instituto Mexicano del Petroleo, T. Viveros-García, Universidad Autónoma Metropolitana</p>	<p>Nova Samuel- 149 - Affiliation: Department of Chemical and Biochemical Engineering, University of Western Ontario, Sam Nova snova@uwo.ca S. Krol, H. de Lasa, University of Western Ontario, Canada</p> <p>PARTICLE CLUSTERING IN DOWN FLOW REACTORS</p>

	CATALYST DEACTIVATION BY COKE FORMATION IN AN ISOTHERMAL FIXED-BED REACTOR: MATHEMATICAL MODELING THROUGH APPROXIMATE SINGLE-PELLET EFFECTIVENESS FACTOR	
18:15 - 18:30	<p><i>Ajay K. Ray</i> - 144, Affiliation: University of Western Ontario, Department of Chemical and Biochemical Engineering, N6A 5B9 aray@eng.uwo.ca</p> <p>MULTI-OBJECTIVE OPTIMIZATION OF A SIMULATED MOVING BED REACTOR</p>	<p><i>Mabrouk Rachid</i> - 76 - Affiliation: Ecole Polytechnique de Montreal, Department of Chemical Engineering, École Polytechnique, PO Box 6079, Station, 'Centre-Ville', Montréal, PQ, Canada H3C 3A7, Montreal, Quebec, H3C 3A7, Canada, rachid.mabrouk@polymtl.ca</p> <p><i>Jamal Chaouki, Christophe Guy</i>, Ecole Polytechnique de Montreal</p> <p>DRAG COEFFICIENT INVESTIGATION IN THE ACCELERATION ZONE OF AN UPWARD GAS SOLID FLOW</p>
18:30 - 18:45	<p><i>Denayer Joeri F.M.</i> – 100; Affiliation: Department of Chemical Engineering, Vrije Universiteit Brussel, Pleinlaan 2, Brussels, 1050, Belgium, Joeri.Denayer@vub.ac.be</p> <p><i>Sophie F. M. Van der Beken, Gino V. Baron</i>, Universiteit Brussel</p> <p>FRIEDEL-CRAFTS ALKYLATION OF DEACTIVATED AROMATIC COMPOUNDS: HIGH-THROUGHPUT TESTING, MODELING AND OPTIMISATION</p>	<p><i>Ariyapadi Siva</i> - 19 – Affiliation: Kellogg Brown & Root Inc. 601 Jefferson Ave., Houston, Texas, 77001, USA; T: siva.ariyapadi@halliburton.com</p> <p><i>Franco Berruti, Cedric Briens</i>, Univ. Western Ontario</p> <p><i>Edward Chan</i>, Syncrude Canada Ltd.</p> <p>A STATE-OF-THE-ART REVIEW OF HORIZONTAL GAS-LIQUID JETS INJECTED INTO FLUIDIZED BEDS</p>
18:45 - 19:00	<p><i>Melis Stefano</i> – 92 - Affiliation: Saras Ricerche e Tecnologia SpA, Trav 2a Strada Est - ZI Macchiareddu, Assemini, Cagliari, 09032, Italy, stefano.melis@sarasricerche.it</p> <p><i>Michela Medde</i>, University of Cagliari - Italy</p> <p><i>Lara Erby</i>, Saras Ricerche e Tecnologia SpA</p> <p><i>Roberto Baratti</i>, University of Cagliari - Italy</p> <p>NON-LINEAR EFFECTS IN THE SIMULATION OF GASOIL HYDRODEAROMATIZATION</p>	<p><i>Rosner Daniel E</i> – 18 - Affiliation: Yale University, Dept. Chemical Engineering, Mason Laboratory, 9 Hillhouse Ave., New Haven, CT, 06520-8286, USA, daniel.rosner@yale.edu</p> <p>RECENT PROGRESS ON IMPROVED RATE LAWS AND POPULATION BALANCE SIMULATION METHODS; APPLICATIONS TO THE COMBUSTION SYNTHESIS OF VALUABLE NANO-PARTICLES</p>
19:00 - 19:15	<p><i>Ayastuy Jose Luis</i> – 95 - Affiliation: Dept. de Ingeniería Química, Facultad de Ciencia y Tecnología, Universidad del País Vasco/EHU, P.O. Box 644, Bilbao, Bizkaia, E-48080, Spain, iqpayarj@lg.ehu.es</p> <p><i>M.Á. Gutiérrez-Ortiz, J.A. González-Marcos, J.R. González-Velasco</i>, Universidad del País Vasco/EHU</p> <p>INTERCOOLED DOUBLE-BED REACTOR FOR LTWGS REACTION WITH CATALYST POISONING BY CHLORINE: INLET TEMPERATURES FOR THE MAXIMIZATION OF THE PRODUCTION</p>	<p><i>Newton David</i> - 3 Affiliation: BP Chemicals Ltd Bld A, First Floor, Chertsey Road, Sunbury-on-Thames, Middlesex, TW16 7LL, United Kingdom, newtond@bp.com</p> <p><i>Barry Nay</i>, BP Gas and Power</p> <p>DESIGN OPTIONS AND METHODOLOGY FOR 3-PHASE AGGREGATIVELY FLUIDIZED BED FOR FISCHER-TROPSCH REACTIONS</p>
19:15-19:30	<p><i>Mariaca-Dominguez M. Ernesto</i> - 127 – Affiliation: Instituto Mexicano del Petroleo, Eje Central Lazaro Cardenas 152. Col. San Bartolo Atepehuacan, Mexico, Distrito Federal, 07730, Mexico, emariaca@imp.mx</p> <p><i>Silvano Rodriguez-Salomon</i>, Instituto Mexicano del Petroleo</p> <p>FEEDSTOCK QUALITY AND OPERATIONAL CONDITIONS TO PREDICT FCC PRODUCT YIELDS</p>	<p><i>Song Xuqi</i> - 40 – Affiliation The University of British Columbia, 2216 Main Mall, Vancouver, BC, V6T 1Z4, Canada; xsong@chml.ubc.ca</p> <p><i>Hsiaotao Bi</i>, The University of British Columbia</p> <p><i>Yasemin Bolkan</i>, The University of British Columbia</p> <p>A NOVEL SOLIDS FEEDER FOR HIGH-DENSITY DOWNER REACTORS</p>
19:30 - 21:00	<i>Dinner -Turquesa Room</i>	

21:30-23:00	Latin American Music Concert- Universidad Autonoma de Zacatecas Ensemble, Calderon Theatre, Zacatecas
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Tuesday, August 30, 2005

07:00 - 08:30	<i>Breakfast Buffet-Turquesa Room</i>	
	SESSION IV ENVIRONMENTAL REACTION ENGINEERING , BIOCHEMICAL REACTOR ENGINEERING AND FUEL CELLS Esmeralda Room Co-Chairs: Ramesh Gupta, Exxon, Hugo de Lasa, University of Western Ontario	
08:30 - 09:15	THE ROLE OF CATALYSIS AND ELECTROCATALYSIS IN FUEL CELLS -147- Author: Ravindra Datta Affiliation: Worcester Polytechnic Institute, USA, rdatta@WPI.EDU	
09:15 - 09:30	<i>Discussion Period – Questions and Answers</i>	
9:30 - 10:15	PHOTOCATALYTIC REACTOR ENGINEERING - Author: P. Yue Affiliation: Hong Kong University of Science and Technology, Hong Kong, keplyue@ust.hk	
10:15 - 10:30	<i>Discussion Period – Questions and Answers</i>	
10:30 - 11:00	<i>Coffee Break</i>	
	Session Va: ENVIRONMENTALLY FRIENDLY PROCESSES Esmeralda Room Session Co-Chairs: J.Erena, Universidad del Pais Vasco, Spain,R.Datta Worcester Polytechnic Intitute	Session Vb: BIOCHEMICAL REACTOR ENGINEERING Granates Room Session Co-Chairs: Z.Zhang, University of Ottawa, B.Saha, Loughborough University, United Kingdom
11:00 - 11:15	de Lasa, Hugo I.- 90 -Affiliation: University of Western Ontario, University of Western Ontario, London, Ontario, N6A 5B9, Canada, hdelasa@eng.uwo.ca Jason M. Ginsburg , University of Western Ontario CATALYTIC GASIFICATION OF BIOMASS IN A NOVEL FLUIDIZED RISER SIMULATOR	Chowdhury Ranjana - 24 - Affiliation Chemical Engineering Department, Jadavpur University, Kolkata 700 032, India, Chemical Engineering Department, Jadavpur University, Kolkata 700 032, India, Kolkata, West Bengal, 700 032, India, ftbe_bon@yahoo.com Anindita DuttaGupta , Jadavpur University MATHEMATICAL MODELING OF THE TRANSIENT BEHAVIOUR OF A CHEMOSTAT UNDERGOING BIO-DESULFURIZATION OF MODEL ORGANOSULFUR COMPOUNDS AND DIESEL USING PURE AND ISOLATED BACTERIAL STRAINS
11:15 - 11:30	Belkacemi, Khaled - 41 – Affiliation: Université Laval, Department of Soil Sciences & Agrifood Engineering, Sainte-Foy, Québec, G1K 7P4, Canada khaled.belkacemi@sga.ulaval.ca Safia Hamoudi , Université Laval, PHENOMENOLOGICAL KINETICS AND RECALCITRANCE INDEX OF WET AIR OXIDATION	Duran-de-Bazua: Carmen - 73 - Affiliation: Universidad Nacional Autonoma de Mexico-UNAM, Facultad de Quimica-UNAM, Mexico, Mexico D.F., 04510, Mexico, mcduran@servidor.unam.mx Graciela Hernandez-Cano , UNAM, Mexico ANALYSIS OF SANITARY LANDFILL CONSIDERED AS A BICHEMICAL MACRO-REACTOR

11:30 - 11:45	<p>Medina-Valtierra Jorge – 116 - Affiliation: Instituto Tecnológico de Aguascalientes, Av. A. López mateos No. 1801 Ote., Aguascalientes, Aguascalientes, 20256, Mexico mvaltierraj@yahoo.com.mx Josafat García-Servín, Instituto Tecnológico de Aguascalientes Edgar Moctezuma-Velázquez, Universidad Autónoma de San Luis Potosí Claudio Frausto-Reyes, Sergio Calixto, Centro de Investigaciones en Optica</p> <p>A PHOTOCATALYTIC APPLICATION OF ANATASE THIN FILMS DEPOSITED ON GLASS MICRORODS AND ENCAPSULATING COMMERCIAL TIO₂ PARTICLES</p>	<p>Martínez D Sergio A. - 101 – Affiliation: Universidad Autónoma Metropolitana, Azcapotzalco, Av. San Pablo 180, Azcapotzalco , Dpto. Energía, Mexico City, 02200, México, samd@correo.azc.uam.mx Ricardo Aguilar L., Universidad Autónoma Metropolitana Miguel A. Morales M., Petroquímica Morelos S.A. de C. V Miriam G. Rodríguez R., Universidad Autónoma Metropolitana Gabriel Soto C., Universidad Autónoma Metropolitana</p> <p>STABILITY ANALYSIS OF AN ACTIVATED SLUDGE BIOREACTOR OF A PETROCHEMICAL PLANT AT DIFFERENT TEMPERATURES</p>
11:45 - 12:00	<p>Pal Amrita - 71 - Affiliation: Departmental of Chemical and Biomolecular Engineering, National University of Singapore 4 Engineering Drive 4, Singapore, Singapore, 117576, Singapore, T: (+65)68741524, F: N/A, g0301141@nus.edu.sg Liya E. Yu, Simo O. Pehkonen, Madhumita B.Ray, National University of Singapore</p> <p>TIO₂ MEDIATED DISINFECTION OF BIOAEROSOLS.</p>	<p>Zhang Zisheng - 123 – Affiliation: University of Ottawa, Department of Chemical Engineering, Ottawa, Ontario, K1N 6N5, Canada, zzhang@uottawa.ca Kaili Zhao, Tianjin University Yiru Gan, University of Ottawa University of Ottawa; zzhang@uottawa.ca;</p> <p>A STUDY OF FERMENTATION FOR HUMAN INTERLEUKIN-11WITH RECOMBINANT E. COLI</p>
12:00 - 12:15	<p>Serrano Rosales Benito - 136 – Affiliation: Facultad de Ciencias Químicas, Universidad Autonoma de Zacatecas, Carr. a Cd. Cuauhtemoc, Km 0.5., Guadalupe, Zacatecas, 98600, Mexico beniser@prodigy.net.mx Miguel Salaices Arredondo, Instituto de Investigaciones Electricas, Cuernavaca Morelos Aaron Ortiz Gomez, Hugo Ignacio de Lasa, The University of Western Ontario Canada.</p> <p>PHOTOCATALYTIC REACTOR EFFICIENCY FACTOR (PTEF): CUASI – EQUILIBRIUM AND NON EQUILIBRIUM ADSORPTION MODELING ASSUMPTIONS</p>	<p>Belkacemi Khaled - 49 – Affiliation: Department of Soil Sciences and Agri-Food Engineering, Université Laval; FSAA, Pavillon Paul-Comtois, Sainte Foy, Quebec, Quebec, G1K 7P4, Canada; khaled.belkacemi@sga.ulaval.ca Amira Boulmerka, Safia Hamoudi, Joseph Arul, Université Laval</p> <p>ACTIVITY AND SELECTIVITY OF NOVEL STRUCTURED PD-CATALYSTS: RECENT DEVELOPMENTS IN VEGETABLE OIL HYDROGENATION</p>
12:15-12:30	<p>Santoro Domenico - 67 - Affiliation: Technical University of Bari, Viale del Turismo, 8, Taranto, 74100, Italy, , ds3372@drexel.edu Timothy A. Bartrand, Bakhtier Farouk, Charles N. Haas, Drexel University Dennis J. Greene, Carollo Engineers Michele Notarnicola, Lorenzo Liberti, Technical University of Bari</p> <p>E. COLI INACTIVATION WITH PEROXYACETIC ACID (PAA): USE OF CFD FOR WASTEWATER DISINFECTION PROCESS ANALYSIS</p>	<p>Ruiz Leza Hector Arturo - 118 –Affiliation: Universidad Autonoma de Coahuila. School of Chemistry. Food Science Department., Blvd. Venustiano Carranza y Jose Cardenas, Saltillo, Coahuila, 25000, México, hector@usquim.uadec.mx Cristobal Noe Aguilar Gonzalez, Rosa Maria Rodriguez Jasso, Juan Carlos Contreras Esquivel, Raul Rodriguez Herrera, Universidad Autonoma de Coahuila. School of Chemistry.</p> <p>COLUMN-TRAY BIOREACTOR DESIGN FOR ENZYME PRODUCTION IN SOLID STATE FERMENTATION</p>
12:30 – 13:30	Lunch-Turquesa Room	
13:30- 14:15 14:15- 15:00 15:00-16:00	<p><i>Walking of the CRE X participants from the hotel to the Felguerez Museum</i> <i>Visit to the Felguerez Museum</i> Special Presentations in Felguerez Amphitheater: Co-Chairs: B. Serrano Rosales, Universidad Autonoma de Zacatecas, J. A. Ochoa Tapia, Universidad Autonoma Metropolitana, Iztapalapa. ZACATECAS AND MEXICO: AN HISTORICAL OVERVIEW Speaker: Lic. Cuítlahuac Garcia Medina, Universidad Autonoma de Zacatecas, Mexico</p>	

16:00-16:45	Special Presentation in Felguerez Amphitheater of the new book "PHOTOCATALYTIC REACTION ENGINEERING" by Springer.	
16:45-17:30	H. de Lasa , University of Western Ontario, Canada, B. Serrano Universidad Autonoma de Zacatecas, Zacatecas, Mexico, M. Salaices , Instituto de Investigaciones Electricas, Mexico <i>Walking of the CRE X participants from the Felguerez Museum to the hotel</i>	
17:30-18:00	Afternoon Coffee	
	Session VI: CATALYTIC PROCESSES AND CATALYTIC DISTILLATION	
	Session VIa: CATALYTIC PROCESSES Esmeralda Room Session Co-Chairs: F.Lopez Isunza, Universidad Autonoma Iztapalapa, P.Guiraud, INSA, France	Session VIb: CATALYTIC DISTILLATION Granates Room Session Co-Chairs: S. Mehta, Air Products and Chemicals, K. Belkacemi, Universite Laval,
18:00 - 18:15	Contreras Andrade, Ignacio - 120 – Affiliation: Universidad Autónoma Metropolitana-Iztapalapa Av. San Rafael Atlixco, Col. Vicentina, México, D.F., 09340, México, ica@xanum.uam.mx Gustavo Pérez López, Tomás Viveros García , Universidad Autónoma Metropolitana-Iztapalapa THE INFLUENCE OF THE SUPPORT ON THE DEACTIVATION BEHAVIOR OF PT-SN REFORMING CATALYSTS	Saha B. , - 86 - Affiliation: Department of Chemical Engineering, Loughborough University, Ashby Road, Loughborough, Leicestershire, LE11 3TU, UK, T: +44-1509-222505, F: +44-1509-223923, b.saha@lboro.ac.uk H T R Teo , Department of Chemical Engineering, Loughborough University PRODUCTION OF ISO-AMYL ACETATE: HETEROGENEOUS KINETICS AND TECHNO-FEASIBILITY EVALUATION FOR CATALYTIC DISTILLATION
18:15 - 18:30	Pérez, Gustavo, J.Luis Suaste, César Barrales, J. Antonio De Los Reyes, J. Pérez Sea, Marcelino Reyes, Tomás Viveros ; - 119 - Affiliation: Departamento de IPH, Universidad Autónoma Metropolitana-Iztapalapa, Av. San Rafael Atlixco 186, Col Vicentina, Iztapalapa, México, D.F., 09430, México, tvig@xanum.uam.mx ON THE PERFORMANCE OF METAL SUPPORTED CATALYSTS PREPARED BY MICROEMULSION: SOL-GEL AND PRECIPITATION OF SUPPORT PRECURSOR	Perea Leo Alvarado – 126 - Affiliation: Universidad A. Metropolitana Iztapalapa, Depto. Ing de Procesos Av Rafael Atlixco 189, Colonia Vicentina, Mexico, D.F., DF, 09340, Mexico, jarh@xanum.uam.mx I.R. Galindo-Esquivel, J.A. de los Reyes, M. Alvarado-Morales, E. Pérez-Cisneros, T. Viveros , Universidad A. Metropolitana--Iztapalapa ON THE EXPERIMENTAL RELEVANCE OF MODEL SIMULATIONS OF HDS REACTIVE DISTILLATION. THE EFFECT OF SOLVENT ON THE KINETICS AND MASS TRANSFER RESISTANCES
18:30 - 18:45	González-Marcos M. Pilar – 89 - Affiliation Dept. Ingeniería Química, Fac. Ciencia y Tecnología, Universidad del País Vasco/E.H.U., P.O. Box 644, Bilbao, Vizcaya, E-48080, Spain, iqpgomam@lg.ehu.es Ainhoa Betolaza, Miguel A. Gutiérrez-Ortiz, Juan R. González-Velasco , Universidad del País Vasco/E.H.U. PD SUPPORTED ON CE/ZR MIXED OXIDES IN THE REDUCTION OF NO WITH PROPYLENE IN OXIDIZING CONDITIONS	Saha: B - 87 - Affiliation: Department of Chemical Engineering, Loughborough University, Ashby Road, Loughborough, Leicestershire, LE11 3TU, UK, , b.saha@lboro.ac.uk H T R Teo , Department of Chemical Engineering, Loughborough University ISO-AMYL ACETATE SYNTHESIS BY HETEROGENEOUS CATALYTIC DISTILLATION
18:45 - 19:00	Sosa Vázquez M - 55 – Affiliation: Centro de Investigación en Materiales Avanzados, S. C. (CIMAV), Miguel de Cervantes 120, , Chihuahua,, Chihuahua, 31109, México; alejandro.lopez@cimav.edu.mx Collins Martínez V., Roman Aguirre M., López	Sim Yee Chin – 84 – Affiliation: Universiti Sains Malaysia, School of Chemical Engineering, Engineering Campus, Universiti Sains Malaysia, Seri Ampangan, Nibong Tebal, Penang, 14300, Malaysia, chchin@eng.usm.my Abdul Latif Ahmad, Abdul Rahman Mohamed, Subhash Bhatia , Universiti Sains Malaysia

	<p><i>Ortiz A.</i>, CIMAV</p> <p>HYDROGEN PRODUCTION USING CUO/AL₂O₃ AND CUO/ZrO₂ THROUGH THE METAL-PARTIAL OXIDATION OF METHANE PROCESS (POX-MEO)</p>	<p>ESTERIFICATION OF PALMITIC ACID WITH ISOPROPANOL IN A CATALYTIC DISTILLATION COLUMN: MODELING AND SIMULATION STUDIES</p>
19:00 - 19:15	<p><i>Specchia Stefania</i> – 9 - Affiliation: Politecnico di Torino, Materials Science and Chemical Engineering Dept. Corso Duca degli Abruzzi 24, Torino, 10129, Italy, stefania.specchia@polito.it</p> <p><i>Ugo Andrea Icardi, Vito Specchia, Guido Saracco</i>, Politecnico di Torino</p> <p>COMPACT DIRECT METHANOL FUEL CELLS FOR PORTABLE APPLICATIONS: A MODELING STUDY</p>	<p><i>Morales-Rodríguez: R.</i>; - 130 - Affiliation: Depto. de Ing. de Procesos e Hidráulica. Universidad Autónoma Metropolitana-Iztapalapa., San Rafael Atlixco No. 186, Col. Vicentina, Del., Iztapalapa, México, D.F., Iztapalapa, 09340, Mexico, espc@xanum.uam.mx</p> <p><i>E. Pérez-Cisneros, R. Lobo-Oehmichen</i>, Depto. de Ing. de Procesos e Hidráulica. Universidad Autónoma Metropolitana-Iztapalapa.</p> <p>ANALYSIS OF THE HEAT AND MASS TRANSFER EFFECTS IN THE DEEP HYDRODESULPHURIZATION OF DIESEL THROUGH REACTIVE DISTILLATION</p>
19:30 - 21:00	<p><i>Dinner-Turquesa Room</i></p>	
21:00 - 23:00	<p>POSTER SESSION / SOCIAL TIME</p> <p><i>Includes in addition to all the oral presentations of Sessions I, II, III, IV and V, the following contributions</i></p> <p>Swimming Pool Area</p>	
	<p><i>Bergougnou Maurice-42</i> Affiliation: Chemical Reactor Engineering Center, Chemical and Biochemical Engineering Department, the University of Western Ontario; London, Ontario Canada, Ontario N6A 5B9, London, Ontario, N6A 5B9, Canada; T: 519-661-2143, F: 519-661-3498, sbarghi2@eng.uwo.ca</p> <p>COMMERCIALIZATION OF THE MULTI-PHASE JET IMPACT REACTOR</p>	
	<p><i>Arancibia-Bulnes C.</i>, Affiliation: Centro de Investigación en Energía, Universidad Nacional Autónoma de México, Privada Xochicalco s/n, Col. Centro, A. P. 34, Temixco, Morelos, 62580, México, T: +52(777) 3250052, F: +52(777)3250018, caab@cie.unam.mx</p> <p><i>Sergio A. Cuevas</i>, Centro de Investigación en Energía, Universidad Nacional Autónoma de México</p> <p><i>Benito Serrano</i>, Unidad Académica de Ciencias Químicas, Universidad Autónoma de Zacatecas</p> <p>RADIATION ABSORPTION IN AN ANNULAR PHOTOCATALYTIC REACTOR</p>	
	<p><i>Dawe Matthew</i> -128 - Affiliation: Dept. of Chemical and Biochemical Engineering, The University of Western Ontario, London, Ontario, N6A 5B9, Canada, mdawe@uwo.ca</p> <p><i>Cedric Briens, Franco Berruti</i>, The University of Western Ontario</p> <p>STUDY OF GAS-LIQUID JET BOUNDARIES IN FLUIDIZED BEDS</p>	
	<p><i>Jimenez Becerra Jaime</i> - 75 – Affiliation: Instituto Nacional de Investigaciones Nucleares Carretera Mexico-Toluca, km. 36.5, Ocoyoacac, Estado de Mexico, Mexico, 52045, Mexico, jjb@nuclear.inin.mx</p> <p><i>Julio Cesar Gonzalez Juarez, Hector Carrasco Abrego</i>, Instituto Nacional de Investigaciones Nucleares</p> <p>GAMMA RADIATION INDUCED CATALYTIC DEGRADATION OF 4-CLOROPHENOL USING SIO₂, TIO₂ AND AL₂O₃</p>	
	<p><i>Jingbo Hu</i> - 11 - Affiliation: The State Key Laboratory of Bioreactor Engineering, East China, University Of Science And Technology, 130 Meilong Rd, Shanghai, Shanghai, 200237, China, wstan@ecust.edu.cn</p> <p><i>Jiang Dandan, Zhou Yan, Tan Wensong</i>, The State Key Laboratory of Bioreactor Engineering, East China, University of Science and Technology</p> <p>MICROCARRIER SUSPENSION CULTURE OF MESENCHYMAL STEM CELLS IN BIOREACTOR</p>	

	<p>Kozak N - 13 - Affiliation: Institute of Macromolecular Chemistry NAS of Ukraine, Kharkov chaussee, 48, Kiev, Ukraine, 02160, Ukraine, Kozak@smalt.kiev.ua Nizelskii Yu. Institute of Macromolecular Chemistry NAS of Ukraine POLYMER NETWORKS BASED ON MICROBIAL EXOPOLYSACCHARIDE AND BLOCKED POLYISOCYANATE</p>
	<p>Li Qunliang - 14 - Affiliation The State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, 130 Meilong Rd., Shanghai., Shanghai., 200237., China, wstan@ecust.edu.cn Haobo, Cai, Giwei, Liu, Wensong, Tan, The State Key Laboratory of Bioreactor Engineering, East China, University of Science and Technology, MOLECULAR UNDERSTANDING OF HUMAN CD34+ STEM/PROGENITOR CELLS EXPANDED IN TWO DIFFERENT CULTURE SYSTEMS</p>
	<p>Li Qunliang - 15 - Affiliation: The State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, 130 Meilong Rd., Shanghai., Shanghai., 200237., China, wstan@ecust.edu.cn Haobo Cai, Giwei Liu, Wensong Tan, The State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, GENE EXPRESSION PATTERN OF HUMAN CD34+ STEM/PROGENITOR CELLS CULTURED IN STIRRED BIOREACTOR</p>
	<p>Margaritis; Argyrios – 114 - Affiliation: The University of Western Ontario Department of Chemical and Biochemical Engineering, London, Ontario, N6A 5B9, Canada, amarg@uwo.ca David Rivera, Tecnológico de Monterrey Leon campus CONTINUOUS CULTURE OF BACILLUS THURINGIENSIS FOR THE PRODUCTION OF BIOINSECTICIDE DELTA-ENDOTOXIN</p>
	<p>Minor-Pérez E.-137- Affiliation: Facultad de Estudios Superiores Zaragoza, UNAM, Batalla del 5 de Mayo s/n esq. Fuerte de Loreto, Col. Ejercito de Oriente, México, D. F., D. F., 09230, México T: (52) 57736331, F: (52) 57736331, mypes6@yahoo.com.mx R. Mendoza-Serna, Facultad de Estudios Superiores Zaragoza, UNAM R. C. Pless, CICATA-Instituto Politécnico Nacional, Unidad Querétaro D. Quintana-Zavala, CICATA-Instituto Politécnico Nacional, Unidad Legaria R. Torres-Robles, Programa de Ingeniería Molecular, Instituto Mexicano del Petróleo CERAMIC MEMBRANE USED TO SEPARATE H2 FROM H2/CH4/H2S MIXTURE</p>
	<p>Moctezuma Edgar - 104 – Affiliation: Luis Potosí, S.L.P., México, T: México, edgar@uaslp.mx Elisa Leyva, Socorro Oros, Universidad Autónoma de San Luis Potosí, MEXICO Mathilde Legros, Universite Blais Pascal, FRANCE PHOTOCATALYTIC DEGRADATION OF PARACETAMOL: KINETIC STUDIES</p>
	<p>Ortiz-Gomez Aaron-146-Affiliation: University of Western Ontario, Faculty of Engineering, London, Ontario, N6A 5B9, Canada, T: 519-661-2144, F: 519-850-2931, aortizgo@uwo.ca Serrano-Rosales, Benito, Universidad Autonoma de Zacatecas, Mexico de Lasa, Hugo, University of Western Ontario, Canada FERROUS AND FERRIC INORGANIC IONS AS ADDITIVES IN THE PHOTOCATALYTIC OXIDATION OF PHENOL</p>
	<p>Pandiyar Thangarasu - 79 – Affiliation: Universidad Nacional Autónoma de México Facultad de Química, México D.F., México D.F., 04510, Mexico, pandiyar@servidor.unam.mx L. Carlos Trejo-Navarro, B. P. Martínez Fierro, Facultad de Química, Universidad Nacional Autónoma de México H. Matamoros Flores, M. E. Ruiz Santoyo, Instituto Mexicano del Petróleo FENTON-OXIDATION STUDIES OF PHENOLIC COMPOUNDS</p>
	<p>Quezada G Ma Elena and Contreras B. Roberto - 68 – Affiliation: Centro de Investigación y Desarrollo Tecnológico en Electroquímica S. C., Parque Tecnológico Querétaro Sanfandila, Pedro Escobedo, Querétaro, 76700, México, rcontreras@cideteq.mx</p>

	REDUCTION OF THE ARSENIC CONCENTRATION CONTAINED IN WATER BY USING A COMBINED SYSTEM OF ELECTROLYTIC IRON DISSOLUTION AND OZONATION
	<i>Ramírez-Ortíz Jorge</i> – 117 - Affiliation UACQ-Universidad Autónoma de Zacatecas, Carr. Cd. Cuahutemoc Km 0.5, Guadalupe, Zacatecas, 98600, MEXICO, jramirez@cantera.reduaz.mx <i>Jorge Medina-Valtierra</i> , Centro de Investigaciones en Optica <i>Edgar Moctezuma-Velázquez</i> , Universidad Autónoma de San Luis Potosí <i>Manuel Sánchez-Cárdenas</i> , Instituto Tecnológico de Aguascalientes <i>Claudio Frausto-Reyes</i> , Centro de Investigaciones en Optica RELATIVE PHOTONIC EFFICIENCIES TO DEGRADATION AND MINERALIZATION AND GLOBAL PHOTONIC EFFICIENCY IN HETEROGENEOUS PHOTOCATALYSIS
	<i>Rodriguez Gonzalez Jorge F</i> – 91 -Affiliation: Universidad Autónoma Metropolitana Mexicali No.14 col. Hipódromo, Mexico, D.F., 06100, Mexico, jorger@cablevision.net.mx <i>Berenice QUINTANA DIAZ, José Luis CONTRERAS LARIOS</i> , Universidad Autónoma Metropolitana LOW COST AUTOMATED ON SITE BIOREACTOR FOR DISPENSING BACTERIA
	<i>Romero-Vargas S.</i> , - 26 – Affiliation: The University of Western Ontario Chemical Reactor Engineering Center, Faculty of Engineering, London, Ontario, N6A 5B9, Canada; sromerov@uwo.ca <i>H. I. de Lasa</i> , The University of Western Ontario CFD SIMULATION OF A PHOTOCATALYTIC REACTOR FOR AIR TREATMENT
	<i>Salazar Peña Margarita</i> - 108 – Affiliation: Universidad Autónoma Metropolitana – Iztapalapa, Av. San Rafael Atlixco # 186, Col. Vicentina, México, Distrito Federal, 09340, México, 65-56, salazarmagui@yahoo.com.mx <i>Sergio Revah Moiseev</i> , Universidad Autónoma Metropolitana - Iztapalapa <i>Marcia Morales Ibarria</i> , Instituto Mexicano del Petróleo BIODEGRADATION OF GASEOUS METHYL TERT-BUTYL ETHER BY COMETABOLISM WITH HEXANE IN BIOFILTERS

Wednesday August 31, 2005

07:00 - 08:30	<i>Breakfast Buffet-Turquesa Room</i>	
	Session VII MODELING IN CHEMICAL REACTION ENGINEERING AND NOVEL EXPERIMENTAL REACTORS Esmeralda Room <i>Session Co-Chairs: Jose Antonio de Los Reyes, Universidad Autonoma Metropolitana, Iztapalapa, Mexico, Serge Kaliaguine, Université Laval</i>	
08:30 - 09:15	MODELING HYDROCARBON PROCESSING –139- Author: <i>Teh C. Ho</i> , Affiliation: Exxon Mobil, USA teh.c.ho@exxonmobil.com	
9:15-9:30	<i>Discussion Period – Questions and Answers</i>	
9:30 - 10:15	SOLAR THERMAL FLUID-WALL-AEROSOL FLOW REACTORS – 1- Author: <i>A. Weimer</i> , Affiliation: University of Colorado, USA, Alan.Weimer@colorado.edu	
10:15 - 10:30	<i>Discussion Period – Questions and Answers</i>	
10:30 - 11:00	<i>Coffee Break</i>	
	Session VIIIa: MODELLING IN CHEMICAL REACTOR ENGINEERING Esmeralda Room <i>Session Co-Chairs: R.Rico Martínez,</i>	Session VIIIb: CATALYTIC REACTOR ENGINEERING Granates Room <i>Session Co-Chairs: T.Ho, Exxon, N.Lemcoff, United Technologies</i>

	Instituto Tecnológico de Celaya, E.Cisneros, Universidad Autónoma Metropolitana, Iztapalapa	
11:00 - 11:15	<p>Ramaswamy R. C. - 17 – Affiliation: Washington University in Saint Louis, Campus Box 1198, One Brookings Drive, Saint Louis, Missouri, 63130, USA, T: 314-935-6042, F: 314-935-7211, rcr2@cec.wustl.edu P.A. Ramachandran, M.P. Dudukovic, Washington University in Saint Louis MODELING OF SOLID ACID CATALYZED ALKYLATION REACTORS</p>	<p>de los Reyes J.A.; - 134 – Affiliation Universidad A. Metropolitana Iztapalapa, Depto. Ing de Procesos, Av Rafael Atlixco 189, Mexico, DF, DF, 09340, Mexico, jarh@xanum.uam.mx J.N. Díaz de León, O. Olvera, E. Altamirano, Universidad A. Metropolitana-Iztapalapa F. Murrieta, Instituto Mexicano del Petróleo, M. Vrinat, Institut de Recherches sur la Catalyse KINETIC EVALUATION OF SIMULTANEOUS HYDRODESULFURIZATION OF 4,6 DIMETHYLDIBENZOTHIOPHENE AND HYDRODENTROGENATION OF INDOL OVER NIMO AND NIW CATALYSTS</p>
11:15 - 11:30	<p>House, Peter - 133 - Affiliation: Dept. of Chemical and Biochemical Engineering, The University of Western Ontario, London, Ontario, N6A 5B9, Canada, T: (519) 661-2128, F: (519) 850-2399, pkhouse@uwo.ca Cedric Briens, Franco Berruti, The University of Western Ontario Edward Chan, Syncrude Canada Ltd. Edmonton, Alberta MODELING THE THERMAL CRACKING OF BITUMEN</p>	<p>Marroquin Jesús O - 69 –Affiliation: Instituto Mexicano del Petróleo 152 Lázaro Cardenas, Mexico City, D.F., 07730, México, jmarroq@imp.mx Georgina C. Laredo, Instituto Mexicano del Petróleo Jesús A. Ochoa, Tomas Viveros, Universidad Autónoma Metropolitana PARTICLE SIZE DISTRIBUTION EFFECT ON CATALYTIC CONVERSION IN A CSTR</p>
11:30 - 11:45	<p>González-Figueredo C., - 72 – Affiliation: Depto. de Ing. Química, Instituto Tecnológico de Celaya Av. Tecnológico y A. García Cubas S/N, Celaya, Guanajuato, 38010, México, T: 52 (461) 611 7575, F: 52 (461) 611 7744, figuered@iqcelaya.itc.mx R. Rico-Martínez, Depto. de Ing. Química, Instituto Tecnológico de Celaya BIFURCATION DETECTION IN KINETIC MONTE CARLO SIMULATIONS</p>	<p>Moreno Carlos - 35 - Affiliation: Universidad de Los Andes, Carrera No 18 A 10, Bogota, Cundinamarca, Colombia; jumoreno@uniandes.edu.co Giraldo Duarte Carolina, Medina Maria Carolina, Vargac Edgar, Giraldo Liliana, Universidad de Los Andes, Colombia SYNTHESIS AND CHARACTERIZATION OF MFI ZEOLITES FOR THE TREATMENT OF PHENOL IN AQUEOUS SOLUTIONS</p>
11:45 - 12:00	<p>Maya-Yescas Rafael - 62 – Affiliation: Facultad de Ingeniería Química. Universidad Michoacana de San Nicolás de Hidalgo, Santiago Tapia 403, Morelia, Michoacán, 58000, MEXICO, rmayay@zeus.umich.mx Javier Lara-Romero, Universidad Michoacana de San Nicolás de Hidalgo, Ricardo Aguilar-López, Departamento de Energía. Universidad Autónoma Metropolitana-A CONTROLLABILITY ASSESSMENT APPROACH FOR PARTIALLY UNKNOWN NONLINEAR CHEMICAL REACTORS</p>	<p>Kaliaguine Serge - 81 - Affiliation: Department of Chemical Engineering, Laval University, Ste-Foy., Quebec, Quebec, G1K 7P4., Canada, T: (418) 656 2708, F: (418) 656 3810, Serge.Kaliaguine@gch.ulaval.ca H. Vinh Thang, Laval University F. Berube, Laval University Q. Huang, University of New Brunswick M. Eic, University of New Brunswick PORE DIFFUSION OF SELECTED HYDROCARBONS IN BIPOROUS MESOSTRUCTURED SILICA SBA-15</p>
12:00 - 12:15	<p>Laredo Georgina C - 70 - Affiliation: Instituto Mexicano del Petróleo, 152 Lázaro Cardenas, Mexico City, D.F., 07730, México, glaredo@imp.mx Federico J. Jimenez, Instituto Mexicano del Petróleo Jesús O. Marroquin, Instituto Mexicano del Petróleo MOLECULAR SIZE EVALUATION OF LINEAR AND BRANCHED PARAFFINS FROM THE GASOLINE POOL BY DFT QUANTUM CHEMICAL CALCULATIONS</p>	<p>Zhang Zisheng - 121 - Affiliation: University of Ottawa, Department of Chemical Engineering, Ottawa, Ontario, K1N 6N5, Canada, zzhang@uottawa.ca Lianhui Ding, University of New Brunswick Ying Zheng, University of New Brunswick Zhikun Zhang, Qingdao University of Technology Zbigniew Ring, National Center for Upgrading Technology TOLUENE HYDROGENATION STUDIES FOR THE EVALUATION OF A NANO-NICKEL/AL2O3</p>

		CATALYST
12:30 - 14:00	<i>Lunch-Turquesa Room</i>	
14:00-14:15	<p>Alvarado Morales M. - 131 – Affiliation, Depto. De Ing. de Procesos e Hidráulica. UAM-Iztapalapa, Avenida Michoacán y la Purísima, México, D. F., Iztapalapa, 09340, Mexico, T: (52) 5558044644, F: (52) 5558044900, espc@xanum.uam.mx</p> <p>E. S. Pérez Cisneros, T. Viveros García, Depto. De Ing. de Procesos e Hidráulica. UAM-Iztapalapa</p> <p>AN 'ELEMENT' BASED ALGORITHM FOR COMPUTING CRITICAL POINTS IN REACTIVE MIXTURES</p>	<p>Castillo De Los Rios T - 4 -; Affiliation: Centro de Investigación en Materiales Avanzados, S. C. CIMAV) Miguel de Cervantes 120, Chihuahua, Chihuahua, 31109, México; alejandro.lopez@cimav.edu.mx</p> <p>Collins Martínez V., Lardizábal Gutiérrez D., López Ortiz A., CIMAV</p> <p>REDOX STABILIZATION EFFECT OF TIO2 IN CO3O4 AS OXYGEN CARRIER FOR THE PRODUCTION OF HYDROGEN THROUGH POX AND CHEMICAL LOOPING PROCESSES</p>
14:15-14:30	<p>Cárdenas-Guerra J. Carlos - 132 – Affiliation: Depto. de Ingeniería de Procesos e Hidráulica . UAM-I, Av. San Rafael Atlixco No.186, Col. Vicentina, México, D.F., Delegación Iztapalapa, 09430, México, espc@xanum.uam.mx</p> <p>Eduardo S. Pérez-Cisneros, Depto. de Ingeniería de Procesos e Hidráulica . UAM-I</p> <p>Teresa López-Arenas, CAPEC, Technical University of Denmark</p> <p>STEADY STATE MULTIPLICITY ANALYSIS OF REACTION-SEPARATION SEQUENCES FOR DEEP HYDRODESULFURIZATION OF DIESEL</p>	<p>Ereña Javier - 64 - Affiliation: Departamento de Ingeniería Química, Universidad del País Vasco Apartado 644, Bilbao, 48080, Spain T: 34-94-6015363, F: 34-94-4648500, iqperloj@lg.ehu.es</p> <p>Raúl Garoña, José M. Arandes, Andrés T. Aguayo, Javier Bilbao, Departamento de Ingeniería Química, Universidad del País Vasco</p> <p>DIRECT SYNTHESIS OF DIMETHYL ETHER FROM H₂ + CO AND H₂ + CO₂ FEEDS. EFFECT OF FEED COMPOSITION</p>
14:30-14:45	<p>Hjertager Bjørn H - 50 – Affiliation: Aalborg University Esbjerg; Niels Bohrs Vej 8, Esbjerg, DK-6700, Denmark; bhh@aaue.dk</p> <p>Lene K.H. Osenbroch, Aalborg University Esbjerg</p> <p>Tron Solberg, Aalborg University Esbjerg</p> <p>EXPERIMENTS AND CFD MODELLING OF FAST CHEMICAL REACTION IN TURBULENT LIQUID FLOWS</p>	<p>García-Martínez J. C.; - 129 –Affiliation: Universidad A. Metropolitana Iztapalapa, Depto. Ing de Procesos, Av Rafael Atlixco 189, Mexico, DF, DF, 09340, Mexico, jarh@xanum.uam.mx</p> <p>J.A. de los Reyes, E. Pérez-Cisneros, Universidad A. Metropolitana-Iztapalapa</p> <p>SOLVENT EFFECTS AND INHIBITION OBSERVED BETWEEN 4,6-DIMETHYLDIBENZOTIOPHENE AND QUINOLINE ON A NI-MO-P/AL₂O₃ CATALYST</p>
14:45-15:00	<p>La Mantia Barbara - 29 – Affiliation: Yale University, Department of Chemical Engineering, High Temperature Chemical Reaction Engineering Lab; 9, Hillhouse ave, New Haven, Connecticut, 06520, USA; barbara.lamantia@yale.edu</p> <p>Daniel E Rosner, Yale University, Department of Chemical Engineering, High Temperature Chemical Reaction Engineering Lab</p> <p>COMBUSTION OF LASER IGNITED BUBBLES IN VISCOUS LIQUIDS</p>	<p>Torres Sergio A. Gómez - 124 - Affiliation: Universidad Autónoma Metropolitana-Iztapalapa Av. San Rafael Atlixco 186, Col. Vicentina, Mexico city, Iztapalapa, 09340, México, sgomez@xanum.uam.mx</p> <p>José Alfredo Hernández Maldonado, Arturo Pérez Román, Gustavo A. Fuentes Zurita, Universidad Autónoma Metropolitana-Iztapalapa</p> <p>ON THE SELECTIVITY OF SUPPORTED AU NANOPARTICLES DURING LOW TEMPERATURE CO OXIDATION IN THE PRESENCE OF H₂</p>
15:00 - 17:00	<p>POSTER SESSION / SOCIAL TIME</p> <p><i>Includes in addition to all the oral presentations of Session VI, VII, VIII, the following contributions</i></p> <p>Swimming Pool Area</p>	
	<p>Al-Zahrani S.M.- 78 Affiliation King Saud University, P.O.Box 800, Riyadh, Riyadh, 11421, Saudi Arab T: +966-1-4676873, F: +966-1-4678770, szahrani@ksu.edu.sa</p> <p>B.Y. Jibril, A.E. Abasaed, King Saud University</p> <p>PROPANE OXYDEHYDROGENATION TO PROPYLENE OVER MOLYBDENUM-BASED CATALYSTS</p>	

	<p><i>Brizuela Graciela-88</i>, Affiliation: Departamento de Física, Universidad Nacional del Sur, Av. Alem 1253, Bahía Blanca, Buenos Aires, (8000), Argentina, T: 54-291-4595141, F: 54-291-4595142, brizuela@criba.edu.ar <i>Paula V. Jansen</i>, Departamento de Física, Universidad Nacional del Sur <i>Estela A. Gonzalez</i>, Departamento de Física, Universidad Nacional del Sur BENZENE AND NO ON A RU(001) SURFACE: ELECTRONIC STRUCTURE AND BONDING</p>
	<p><i>Castillo-Araiza, Omar</i> – 141 –Affiliation: Universidad Autónoma Metropolitana Iztapalapa, E-mail: coca@xanum.uam.mx <i>Felipe Lopez Isunza</i>, Universidad Autónoma Metropolitana, Mexico HEAT TRANSFER STUDIES IN PACKED BEDS</p>
	<p><i>Contreras José Luis</i>; - 112 – Affiliation: Universidad Autónoma Metropolitana-Azcapotzalco, Av.Sn. Pablo 180, Col. Reynosa,, Mexico City, D.F., 02200, México, jlel@correo.azc.uam.mx <i>Eduardo Limhi Lozano</i>, <i>Ernesto Rojas Retana</i>, Universidad Autónoma Metropolitana-Azcapotzalco <i>Juan Navarrete Bolaños</i>, <i>Armando Vázquez Rodríguez</i>, Instituto Mexicano del Petróleo ISOMERIZATION OF N-HEXANE AND N-HEPTANE ON PT/ZR_{0.2}-WO_x-FE₂O₃ AND PT/[(NH₄)_{0.5}H_{2.5}PW₁₂O₄₄]/ZRO₂</p>
	<p><i>González Horacio</i> - 110 - Affiliation: Facultad de Ingeniería Química, Universidad Michoacana de San Nicolás de Hidalgo, Edificio M, Cd. Universitaria, 58060, Morelia, Michoacán, México., hogoro@netscape.net <i>Elizabeth Ramírez</i>, <i>J. Luis Rivera</i>, Universidad Michoacana de San Nicolás de Hidalgo, <i>Jorge Ramírez</i>, UNICAT STUDY OF THE HYDROCONVERSION OF C8 AROMATICS OVER A PT/MORDENITE CATALYST THROUGH A MATHEMATICAL MODEL</p>
	<p><i>Lara-Romero Javier</i> - 56 – Affiliation: Chemical Engineering Department, Universidad Michoacana de San Nicolás de Hidalgo, Ciudad Universitaria, Edificio M, Morelia, Michoacán, 58060, México, jlara_romero@hotmail.com lararom@zeus.umich.mx <i>Rafael Maya-Yescas</i>, <i>José Luis Rico-Cerda</i>, <i>José Luis Rivera-Rojas</i>, Universidad Michoacana de San Nicolás de Hidalgo <i>Wilfred T. Tysoe</i>, Department of Chemistry and Biochemistry, University of Wisconsin-Milwaukee <i>Matey Kaltchev</i>, Department of Chemistry and Physics, Milwaukee School of Engineering KINETICS OF TRIBOCHEMICAL REACTIONS EXPLORED AT HIGH PRESSURES AND ULTRA HIGH VACUUM CONDITIONS</p>
	<p><i>Mukadi; Samy</i> - 103 – Affiliation: University of Alberta, 114st - 89 ave, Edmonton, Alberta, T6G 2E1, Canada, , mukadi@ualberta.ca <i>R. Hayes</i>, University of Alberta <i>Martin Votsmeier</i>, Umicore SIMULATION OF CATALYTIC CONVERTER WITH COMPLEX KINETICS</p>
	<p><i>Rangel, Ricardo</i>- 85 Affiliation: Universidad Michoacana, Dept. Ingeniería Química, Edificio K, Ciudad Universitaria, Morelia, Michoacán, 58060, México, T: (52)-4433167464, F: (52)-4433167464, rrangel@zeus.umich.mx <i>F. Huerta</i>, Facultad de Ingeniería Química, Universidad Michoacana <i>P. Bartolo-Pérez</i>, Cinvestav-IPN, Unidad Mérida <i>F. Castellón</i>, CCMC-UNAM <i>D. H. Galván</i>, CCMC-UNAM REACTIVITY OF [LA2-XCEXO3, CE1-XLAXO2]/ BI2MO0.9W0.1O6, CE1-XRUXO2 COMPOUNDS</p>
17:00-18:00	<i>Ad hoc Session and/or Free Time</i>
19:30-21:00	<i>Dinner-Turquesa Room</i>
22:00-23:00	<i>“Callejoneada”. Walking promenade through the Zacatecas Streets</i>

Thursday, September 1, 2005

07:00 - 08:30	<i>Breakfast Buffet-Turquesa Room</i>	
	<p>Session IX: COMPUTATIONAL CHEMICAL REACTOR ENGINEERING AND MULTIPHASE CHEMICAL REACTORS Esmeralda Room Session Co-Chairs: Franco Berruti, University of Western Ontario, Canada, Veronica Bucala, Plapiqui-Universidad Nacional del Sur, Argentina</p>	
08:30 - 09:15	<p>CFD Simulation of Multiphase Reactors –145- Author: Hans Kuipers, Affiliation: University of Twente, The Netherlands, J.A.M.Kuipers@utwente.nl</p>	
09:15 - 09:30	<i>Discussion Period – Questions and Answers</i>	
09:30- 10:15	<p>Bifurcation and Chaos in Chemical and Biochemical Reaction Engineering –142- Author: Said Elnashaie Affiliation: University of British Columbia, Canada, nashaie@chml.ubc.ca Zhongxiang Chen, University of British Columbia , Parag Garhyan, Pfizer Inc , Pradeep Prasad, University of Wisconsin , Andres Mahecha-Botero, University of British Columbia</p>	
10:15-10:30	<i>Discussion Period – Questions and Answers</i>	
10:30 - 10:45	<i>Coffee Break</i>	
	<p>Session X: Computational Chemical Reactor Engineering and Chemical Reactor Engineering Modeling</p>	
	<p>Session Xa: COMPUTATIONAL CHEMICAL REACTOR ENGINEERING Esmeralda Room Session Co-Chairs: Jesus Vela Estrada, Nova Chemicals, Stefania Specchia, Politecnico di Torino, Italy</p>	<p>Session Xb: THEME V: CHEMICAL REACTOR ENGINEERING: NOVEL EXPERIMENTAL REACTORS AND SENSORS Granates Room Session Co-Chairs: J.Smith, University of Twente, The Netherlands, A. Seidel-Morgenstern, Max Planck Institute, Germany</p>
10:45 - 11:00	<p>Mehta; Sanjay - 135 - Affiliation: Air Products and Chemicals, 7201 Hamilton Blvd., Allentown, PA, 18011, USA, mehtas@airproducts.com Javier Alvarez, Carlos Valenzuela, Air Products and Chemicals</p> <p>CFD-BASED COMPARTMENT MODELING FRAMEWORK FOR DESIGN AND SCALE-UP OF STIRRED REACTORS</p>	<p>San José María José - 111 - Affiliation: Universidad del País Vasco, Departamento de Ingeniería Química, Bilbao, Vizcaya, 48080, Spain, , iqpsaalm@lg.ehu.es Sonia Alvarez, Alvaro Ortíz de Salazar, Martin Olazar, Javier Bilbao, Universidad del País Vasco</p> <p>TREATMENT OF CORK WASTES IN A CONICAL SPOUTED BED REACTOR</p>
11:00 – 11:15	<p>Aguilar-López Ricardo - 122 – Affiliation: Dept. Energy. Universidad Autónoma Metropolitana Azc, Av. San Pablo 180, México, Distrito Federal, 02200, México, raguilar@correo.azc.uam.mx Sergio Martínez, Dept. Energy. Universidad Autónoma Metropolitana Azc, Rafael Maya-Yescas, Faculty of Chemical Engineering. Universidad Michoacana de San Nicolás de Hidalgo</p> <p>ROBUST ESTIMATION IN SEQUENCES OF BATCH BIOREACTORS</p>	<p>Xu; Sikun, Yuhui Qu, Jamal Chaouki*,Christophe Guy, - 83 – Affiliation: l'École Polytechnique de Montréal, P.O. Box 6079, St. "centre ville", Montréal, Québec, H3C 3A7, Canada, sikun.xu@polymtl.ca</p> <p>CHARACTERIZE HOMOGENEITY OF BUBBLY FLOWS IN 0.13M AND 0.292M BUBBLE COLUMNS USING CARPT AND FIBER OPTICS</p>

11:15 – 11:30	<p>Levec Janez- 34 – Affiliation: University of Ljubljana, Department of Chemical Engineering, P.O.Box 537, Ljubljana, Slovenia, SI-1001, Slovenia; janez.levec@uni-lj.si Matej Komel, National Institute of Chemistry; Ljubljana COMPUTATIONAL FLUID DYNAMICS SIMULATIONS OF THERMAL RESPONSE IN FIXED BEDS WITH SINGLE PHASE FLOW</p>	<p>Torre I - 65 - Affiliation: Universidad del Pais Vasco, F. Ciencia y Tecnologia, Dpto. Ingenieria Quimica, Apdo. 644, Bilbao, 48080, Spain, , iqbtogai@lg.ehu.es J.M. Arandes, M.J. Azkoiti, P. Castaño, J. Bilbao, Universidad del Pais Vasco H.I. de Lasa, University of Western Ontario CATALYTIC CRACKING OF PLASTIC PYROLYSIS WAXES OVER HYBRID CATALYSTS UNDER FCC CONDITIONS</p>
11:30 – 11:45	<p>Aguilar-López Ricardo -148- Affiliation Dept. Energy. Universidad Autónoma Metropolitana Azc, Av. San Pablo No. 180, México, Distrito Federal, 02200, Mexico, raguilar@correo.azc.uam.mx Rafael Martínez-Guerra, Dept. Automatic Control, CINVESTAV-IPN Rafael Maya-Yescas, Universidad Michoacana de San Nicolás de Hidalgo ROBUST DETECTION OF FAILURES IN CONTINUOUS CHEMICAL REACTORS</p>	<p>Seidel-Morgenstern A. - 38 – Affiliation: Max-Planck-Institut fuer Dynamik komplexer technischer Systeme; Sandtorstr. 1, Magdeburg, D-39106, Germany; seidel-morgenstern@mpi-magdeburg.mpg.de C. Hamel, Max-Planck-Institut fuer Dynamik komplexer technischer Systeme, D-39106 Magdeburg M. Bron, P. Claus, Technische Universitaet Darmstadt, D-64287 Darmstadt SELECTIVITY AND YIELD IMPROVEMENT BY OPTIMISED REACTANT DOSING</p>
11:45 – 12:00	<p>Bonilla-Petriciolet Adrian - 115 – Affiliation Instituto Tecnológico de Aguascalientes Departamento de Ing. Química, Av. Lopez Mateos 1801, Aguascalientes, Aguascalientes, 20909, Mexico, petriciolet@hotmail.com Gustavo A. Iglesias-Silva, Instituto Tecnológico de Celaya Kenneth R. Hall, Texas AM University Jorge Medina-Valtierra, Instituto Tecnológico de Aguascalientes AN ALGEBRAIC FORMULATION FOR AN EQUAL AREA RULE TO DETERMINE PHASE COMPOSITIONS IN SIMPLE REACTIVE SYSTEMS</p>	<p>Bucalá Verónica - 30 – Affiliation: PLAPIQUI-UNS- CONICET Camino La Carrindanga, Km 7, Bahía Blanca, Buenos Aires, 8000, Argentina; vbucala@plapiqui.edu.ar María Briozzo, Laura Foresti, Gustavo Trubiano, María Luján Ferreira, Daniel Borio, PLAPIQUI-UNS-CONICET CHEMICAL REACTION EQUILIBRIA FOR THE SOLVENT-FREE ETHYL OLEATE SYNTHESIS</p>
12:00 – 12:15	<p>Dani Adil - 45 – Affiliation: Laboratory of Chemical Engineering and Environment; INSA - 135 avenue de Ranguel, Toulouse 31077, France, Pascal.Guiraud@insa-toulouse.fr Cockx Arnaud, Guiraud Pascal, Laboratory of Chemical Engineering and Environment Legendre Dominique, Institut de Mécanique des Fluides de Toulouse DIRECT NUMERICAL SIMULATION OF MASS TRANSFER FROM BUBBLES</p>	<p>Vela-Estrada Jesus - 63 - Affiliation: Nova Chemicals Corporation, 2928-16 Street N.E., Calgary, Alberta, T2E 7K7, Canada, T: (403) 250-0639, F: (403) 250-0621, velaesjm@novachem.com ALTERNATE CO-CATALYSTS FOR ZIEGLER-NATTA HIGH TEMPERATURE OLEFIN POLYMERIZATION</p>
12:15- 12:30	<p>Bucala Veronica - 33 – Affiliation: PLAPIQUI - Universidad Nacional del Sur-CONICET Camino La Carrindanga Km. 7, Bahía Blanca, Buenos Aires, 8000, Argentina; vbucala@plapiqui.edu.ar Juliana Pina, Susana Schbib, Universidad Nacional del Sur - CONICET-Argentina Paul Ege, Reactech-Toronto-Canada Hugo de Lasa, University of Western Ontario, London, Canada GRANULATION OF SILICON IN A FLUIDIZED BED REACTOR: PARTICLE SIZE DISTRIBUTION PREDICTION</p>	<p>Richart Vázquez-Román - 52 – Affiliation: Instituto Tecnológico de Celaya, Dep. de Ing. Química; Av. Tecnológico y García Cubas s/n, Celaya, Guanajuato, 38010, México; richart@iqcelaya.itc.mx José Roberto Hernández-Barajas, Universidad J. Autónoma de Tabasco, DacBiol Ma. Guadalupe Félix-Flores, Instituto Tecnológico de Celaya, Dep. de Ing. Química CHARACTERIZATION FCC PROCESS STREAMS THROUGH THE GAMMA DISTRIBUTION FUNCTION</p>
12:30-12:45	<p>Tsutsui Toshio - 31 – Affiliation: Kagoshima University 1-21-40 Korimoto, Kagoshima, 890-0065, Japan; tsutsui@cen.kagoshima-u.ac.jp Kazuya Ijichi, Kagoshima University SELECTIVITY ANALYSIS OF PARALLEL</p>	

	CONSECUTIVE REACTIONS IN FLUIDIZED BEDS WITH DIRECT CONTACT MODEL	
12:45- 17:30	<i>Bag Lunch, Ad hoc session / free time Visit to La Quemada Site</i>	
	<i>Free time</i>	
18:00 –19:30	POSTER SESSION / SOCIAL TIME <i>Includes in addition to all the oral presentations of Session IX, X (Thursday), the oral presentations of Session XI (Friday)</i>	
	<p><i>Alvaro de Jesus Martínez-Gómez</i> - 8 - Affiliation: Departamento de Madera, Celulosa y Papel, Universidad de Guadalajara Km. 15 Carretera Guadalajara-Nogales, Zapopan, Jalisco, 44220, Mexico, alvaro@dmcyp.cucei.udg.mx <i>Marco Antonio Sanchez-Castillo</i>, Facultad de Ciencias Químicas, Universidad Autónoma de San Luis Potosí <i>Jesús Jacobo Hernández-Montelongo</i>, Victor González-Alvarez, Departamento de Ingeniería Química, Universidad de Guadalajara <i>Katia A. Rodríguez-Rivera</i>, Departamento de Madera, Celulosa y Papel, Universidad de Guadalajara <i>Luis Emilio Cruz-Barba</i>, Center for Plasma Aided Manufacturing, University of Wisconsin- -</p> <p>A COAXIAL DIELECTRIC BARRIER DISCHARGE REACTOR AT ATMOSPHERIC PRESSURE. CONSTRUCTION AND EVALUATION OF PLASMA PERFORMANCE</p>	
	<p><i>Cesari Daniela K.</i> - 98 - Affiliation: Department of Chemical Engineering - PLAPIQUI (UNS-CONICET), Camino La Carrindanga, Km 7, Bahía Blanca, Buenos Aires, 8000, Argentina, dborio@plapiqui.edu.ar <i>Noemí S. Schbib, Daniel O. Borio</i>, Department of Chemical Engineering - PLAPIQUI (UNS-CONICET)</p> <p>STEADY STATE ANALYSIS OF THE HIGH-PRESSURE SECTION OF AN INDUSTRIAL UREA PLANT</p>	
	<p><i>Garcia Cesar Augusto</i> - 36 - Affiliation: Universidad de los Andes, Carrera 1 No 18 A 10, Bogota, Cundinamarca 1, Colombia; ce-ubaqu@uniandes.edu.co <i>Moreno Juan Carlos</i>, Universidad de Los Andes</p> <p>HOFFMAN BRICK FURNACES</p>	
	<p><i>Gogate Parag R.</i>, - 66 - Affiliation: Institute of Chemical Technology, Matunga, Mumbai, Maharashtra, 400019, India, parag@udct.org <i>Aniruddha B. Pandit</i>, Institute of Chemical Technology, Matunga, Mumbai 400 019 India</p> <p>MULTIPLE FREQUENCY SONOCHEMICAL REACTORS: A NOVEL APPROACH FOR PROCESS INTENSIFICATION</p>	
	<p><i>Hua Jiang</i> - 27 - Affiliation: The State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology 130meilong road, Shanghai, Shanghai, 200237, China; jianghua@ecust.edu.cn <i>Tan Wen-song</i>, The State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology</p> <p>NUMERICAL SIMULATION OF GAS-LIQUID FLOW IN A MECHANICALLY STIRRED BIOCHEMICAL REACTOR</p>	
	<p><i>Hulet Craig</i> - 105 – Affiliation: The University of Western Ontario, 1151 Richmond Street, Suite 2, London, Ontario, N6A 5B8, Canada, chulet@uwo.ca <i>Cedric Briens, Franco Berruti</i>, The University of Western Ontario <i>Edward Chan</i>, Syncrude Canada Ltd. <i>David Zhou</i>, The University of Western Ontario</p> <p>OPTIMIZATION OF A FLUIDIZED BED VERTICAL PNEUMATIC TRANSPORT LINE</p>	
	<p><i>Kartushinsky, A.</i> - 20 - Affiliation: Tallinn University of Technology, Akadeemia tee 23A, Tallinn, Estonia, 12618, Estonia, kart@eeri.ee <i>E. E. Michaelides</i>, National Institute for Global Environmental Change, Tulane, University, 605 Lindy Boggs Center, New Orleans, Louisiana 70118, USA, emichael@tulane.edu</p> <p>THE TWO-PHASE MIXTURE IN VERTICAL DUCT BY RANS APPROACH.</p>	

	<p>Kumaresan T. - 37 - Affiliation National Institute of Technology; Chemical Engg Dept., Tiruchirapalli, Tamilnadu, 620015, India; gentlekona@yahoo.co.in K.M. Meera Sheriffa Begum, National Institute of Technology EXTRACTION PERFORMANCE WITH PADDLE IMPELLERS USING PSEUDOPLASTIC FLUID - ELM VS LIQUID-LIQUID EXTRACTION</p>
	<p>Pinto-Espinoza Joaquín; - 113 –Affiliation: Instituto Tecnológico de Durango, Blvd. Felipe Pescador # 1830 Ote., Durango, Durango, 34080, Mexico, pintoejo@yahoo.com Adriana Martínez-Prado, Pedro Alejandro Mota-Bolívar, Instituto Tecnológico de Durango ELECTROREMEDIATION TECHNOLOGY FOR THE TREATMENT OF CONTAMINATED SOIL WITH HYDROCARBONS FROM DURANGO'S MINE INDUSTRY</p>
	<p>Ramazani Saadatabadi Ahmad - 12 - Affiliation: Sharif University of Technology, Department of Chemical and Petroleum Eng., Sharif University of Technology, Azadi Street, Tehran, Tehran, Iran, ramazani@sharif.edu Mehdi Amjasi, Sharif University of Technology MODELING OF SUSPENSION POLYMERIZATION OF POLYVINYL CHLORIDE MONOMER</p>
	<p>Ramazani Saadatabadi Ahmad - 46 – Affiliation: Sharif University of Technology; Dept. of chemical. Eng. sharof university of Technology, Tehran Iran, Tehran, Tehran, P.O.Box. 11365-9465, Iran; ramazani@sharif.edu Ali Dashfi, Sharif University of Technology PARTICLE GROWTH MODELING IN POLYMERIZATION OF OLEFIN MONOMERS USING ZIEGLER-NATTA CATALYSTS</p>
	<p>Rodríguez-River K., 6- Affiliation: Departamento de Madera, Celulosa y Papel, Universidad de Guadalajara Km. 15 Carretera Guadalajara-Nogales, Zapopan, Jal., 44220, MEXICO, T: (52-33)-36820110, F: (52-33)-36820543, alvaro@dmcyp.cucei.udg.mx Marco Antonio Sanchez-Castillo, Facultad de Ciencias Químicas, Universidad Autónoma de San Luis Potosí Victor González-Alvarez, Departamento de Ingeniería Química, Universidad de Guadalajara Luis Emilio Cruz-Barba, Center for Plasma Aided Manufacturing, University of Wisconsin-Madison Alvaro de Jesús Martínez-Gómez, Departamento de Madera, Celulosa y Papel, Universidad de Guadalajara NOVEL ATMOSPHERIC PRESSURE NON-EQUILIBRIUM PLASMA SYSTEM: DIELECTRIC BARRIER DISCHARGES IN A FLUIDIZED BED REACTOR</p>
	<p>Saravanan .K. - 23 - Affiliation: Department of Chemical Engineering,, Kongu Engineering College; Perundurai, Erode, Tamilnadu, 638 052, INDIA; rumisivaesh@yahoo.com T.V. Sriram prabhu, Senior Lecturer, Department of Chemical Engineering, Kongu Engineering College B. Shivakumar, Research Student, Kongu Engineering College FRACTIONAL GAS HOLD -UP IN A NOVEL REACTOR EQUIPPED WITH MULTIPLE IMPELLER FOR THREE PHASE SYSTEM</p>
	<p>Saravanan.K.- 22 - Affiliation: Department of Chemical Engineering,, Kongu Engineering College, Perundurai, Erode, Tamilnadu, 638 052, INDIA, rumisivaesh@yahoo.com T.V. Sriram prabhu, Senior Lecturer, Department of Chemical Engineering, Kongu Engineering College B. Shivakumar, Research Student, Kongu Engineering College MIXING OF VISCOUS FLUID: HELICAL AND ANCHOR VS PITCHED BLADE TURBINE DOWN FLOW (PBD)-RUSHTON TURBINE (RT) IMPELLER</p>
	<p>Simonetti; Sandra - 125 - Affiliation: Dpto de Fisica - Universidad Nacional del Sur, Avenida Alem 1253, Bahía Blanca, Buenos Aires, 8000, Argentina, ssimonet@uns.edu.ar Graciela Brizuela, Dpto. de Fisica - Universidad Nacional del Sur ADSORPTION OF C5H8 ON PT (111)</p>
	<p>Vedantam Sreepriya - 7 - Affiliation: Institute of Chemical Technology, Mumbai University (UIC) N.P.Marg, Matunga, Mumbai, Maharashtra, 400019, India, jbj8@uct.org Mahesh T. Dhotre, Institute of Chemical Technology, Mumbai University (UIC) Jyeshtharaj B. Joshi, Institute of Chemical Technology, Mumbai University (UIC) THREE-DIMENSIONAL CFD SIMULATION OF CONVECTION IN TALL RECTANGULAR ENCLOSURE</p>
	<p>Yamamoto Aguru - 57 – Affiliation The Research Association of Micro Chemical Process Technology (MCPT), Dept. Chemical Engineering, Tokyo Institute of Technology 2-12-1 O-okayama, Meguro-ku, Tokyo, 152-8552, Japan, aguru@chemeng.titech.ac.jp Shinsuke Mori, Masaaki Suzuki, Department of Chemical Engineering, Tokyo Institute of Technology, Japan NUMERICAL SIMULATION AND MODELING OF THE CARBON DIOXIDE DECOMPOSITION IN A</p>

	MICRO PLASMA REACTOR
	<p>Zhang Xu - 32 – Affiliation: Animal Cell and Tissue Engineering Laboratory, State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, 130 Meilong Road, Shanghai, Shanghai, 200237, P.R.China; zhangxu@ecust.edu.cn</p> <p>Wensong Tan, Animal Cell and Tissue Engineering Laboratory, State Key Laboratory of Bioreactor Engineering, East China University of Science and Technology, 130 Meilong Road, Shanghai, 200237, P. R. China</p> <p>Ruipeng Jiang, Institute of Mechanics and Power Engineering, Shanghai Jiaotong University, Shanghai 200030, P.R.China</p> <p>Xuewu Cao, Institute of Mechanics and Power Engineering, Shanghai Jiaotong University, Shanghai 200030, P. R. China</p> <p>A NOVEL NANO-CATALYSTIC REACTOR FOR HYDROGEN PRODUCTION USING THE FOURTH GENERATION NUCLEAR PLANT</p>
19:30 - 23:00	<p>Conference Banquet- Diamante Room, followed by Social Hour-</p> <p>Presentation: THE INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING-RECENT PROGRESS,</p> <p>Invited Speaker: F. Berruti, Affiliation: University of Western Ontario</p>

Friday September 2,2005

07:00 - 08:30	Breakfast Buffet-Turquesa Room
	<p style="text-align: center;">Session XI: MODELLING IN CHEMICAL REACTION ENGINEERING AND INDUSTRIAL APPLICATIONS Esmeralda Room Session Co-Chairs:Richart Vázquez Román, Instituto Tecnológico de Celaya, Julio Renteria WR Grace</p>
08:30 - 09:15	<p>MODELING FCC UNITS –140- Author: Felipe Lopez Isunza, Affiliation: Univ. Autonoma Metropolitana, Mexico, felipe@xanum.uam.mx</p>
09:15 - 09:30	Discussion Period – Questions and Answers
09:30 - 10:00	Coffee Break
10:00 – 10:15	<p>Gomez Bernal Hilda - 74 – Affiliation: UNICAT, Facultad de Quimica, UNAM, Dpto. de Ing. Quimica, Cd. Universitaria, UNAM, Mexico, D.F., 04510, Mexico, caero@servidor.unam.mx</p> <p>Luis Cedeño Caero, UNICAT, Facultad de Quimica, UNAM</p> <p>SOLVENT EFFECTS DURING OXIDATION/EXTRACTION DESULFURIZATION PROCESS OF AROMATIC SULFUR COMPOUNDS FROM FUELS</p>
10:15 – 10:30	<p>Martinez Medina: Isela Jazmin – 97 - Affiliation: Laboratorio de Simulación y Optimización, Departamento de Ingeniería Química, Universidad Nacional Autónoma de México, Ciudad Universitaria, Coyoacán, D.F., 04510, México. 56225372 iselajr@hotmail.com</p> <p>Celestino Montiel Maldonado, UNAM, Fac. de Quimica</p> <p>TECHNICAL RECONVERSION OF THE MTBE PLANT TO PRODUCE ETBE</p>
10:30 – 10:45	<p>Tchir W.J.; - 59 – Affiliation: NOVA Chemicals Research and Technology Centre, 2928 – 16th Street NW, Calgary, Alberta, T2E 7K7, Canada, tchirw@novachem.com</p> <p>A.L. Burke, E.J. Clavelle, J. O'Blenes, J. W. Swabey, M. Walls, NOVA Chemicals Research and Technology Centre</p> <p>SPECIFICATION AND ANALYSIS OF HIGH-INTENSITY POLYMERIZATION REACTORS</p>

10:45 – 11:00	<p><i>Al-Zahrani, S.M.</i>-53 Affiliation: King Saud University; P.O.Box 800, Riyadh, Riyadh, 11421, Saudi Arabia; T: +966-1-4676873, F: +966-1-4678770, szahrani@ksu.edu.sa <i>N. O. Elbashir</i>, Aubrun University <i>A. E. Abasaheed</i>, King Saud University <i>M. Abdulwahed</i>, SABIC</p> <p>OXIDEHYDROGENATION OF ISOBUTANE ON SUPPORTED TRANSITION METALS</p>
11:00 – 11:15	<p><i>Taty Costodes V. Christian</i> - 39 - Christian; Affiliation: Precipitation and Crystallization Research Facility, Department of Chemical Engineering, University of Cape Town; Private Bag Rondebosch, Cape Town, Western Cape, 7701, South Africa; taty@chemeng.uct.ac.za, <i>Lewis E. Alison</i>, Precipitation and Crystallization Research Facility, University of Cape Town</p> <p>NICKEL-HYDROXY-CARBONATE IN FLUIDIZED-BED REACTOR: FINE PRODUCTIONS AND COLUMN DESIGN</p>
11:15 – 11:30	<p><i>Szpyrkowicz Lidia</i> - 51 –Affiliation: University of Venice, Department of Environmental Studies; Dorsoduro 2137, Venice, 30123, Italy; lidia@unive.it <i>Marta Radaelli</i>, University of Venice, Department of Environmental Sciences</p> <p>ELECTROCATALYTIC OXIDATION OF TEXTILE WASTEWATER - FROM BATCH TO A CONTINUOUS FLOW REACTOR</p>
11:30-11:40	<i>Conference Adjournment</i>
12:00-12:45	<i>Lunch</i>