NAS	CRE-3	PRESE	NTA	TION	TIME	S
TOPIC	CODES					
CH	Chemical					
EGF EGBR	Energy 1					
EGBR	Energy 2 Environmer	atal				
FR	Fundament					
FK	Fundament					
FC	Fundament					
Gen	General	ui3 3				
OCII	Certeral					
ID	TOPIC	PRES TYPE	DAY	START	END	TITLE AND AUTHORS
1	FR	Oral	Mon	3:10 PM		SUCCESSFUL SCALE-UP OF AN INDUSTRIAL TRICKLE BED HYDROGENATION USING LABORATORY REACTOR DATA, Daniel
1	I IX	Olai	IVIOIT	3.10 FW	3.33 F W	Hickman, Michael Holbrook, Samuel Mistretta and Steve Rozeveld
2	MK2	Keynote	Mon	10:45 AM	11:35 AM	REACTION ENGINEERING CHALLENGES IN FUTURE ENERGY AND CHEMICALS, Joseph Powell
3	EGBR	Oral	Tue			DEVELOPMENT AND TESTING OF A PILOT REACTOR FOR LOW-TEMPERATURE PYROLYSIS (TORREFACTION) OF STRAW
•		Sidi				PELLETS, Rafail Isemin, Oleg Milovanov, Sergey Kuzmin, Valentin Konyakhin and Nikos Nikolopoulos
4	СН	Oral	Tue	9:30 AM	9:55 AM	RENEWABLE CATALYTIC PROCESS FOR THE PRODUCTION OF P-XYLENE FROM GLUCOSE, Paul Dauenhauer
5	TK7	Keynote	Tue			KINETICS AND MECHANISMS OF OXIDATION AND REDUCTION REACTIONS OF BIOMASS-DERIVED MOLECULES IN LIQUID
		, , , , , ,				WATER, Robert Davis
6	FR	Oral	Mon	9:55 AM	10:20 AM	SORPTION-ENHANCED STEAM REFORMING OF METHANE IN A GAS-SOLID COUNTERCURRENT FLOW REACTOR WITH
						CALCIUM OXIDE AS CO2 ACCEPTOR, Ana Obradović, Blaž Likozar and Janez Levec
7	Gen	Oral	Wed	11:35 AM	12:00 PM	HYDROGENATION OF CO2 AND CO UNDER HIGH TEMPERATURE GRADIENT BETWEEN CATALYST SURFACE AND
						OPPOSITE COOLING PLATE, David Perko and Janez Levec
8	FR	Oral	Mon	3:35 PM		A NEW APPROACH TO FIXED BED RADIAL HEAT TRANSFER USING VELOCITY FIELDS FROM CFD SIMULATIONS, Mohsen
9	EV	Poster	Mon	4:00 PM		AXIAL ACTIVE SITE DISTRIBUTIONS ALONG A MONOLITH-SUPPORTED OXIDATION CATALYST – IMPROVED
10	Gen	Poster	Mon	4:00 PM		GASEOUS PRODUCT FROM MICROWAVE-HEATED PYROLYSIS OF WASTE AUTOMOTIVE ENGINE OIL, Su Shiung Lam, Nyuk
11	EGF	Oral	Mon	9:30 AM	9:55 AM	DOWN-HOLE CATALYTIC UPGRADING OF HEAVY OIL AND BITUMEN TO MEET TOMORROW'S ENERGY NEEDS: THE THAI-CAPRI PROCESS, Abarasi Hart, Gary Leeke, Malcolm Greaves and Joseph Wood
12	FK	Poster	Tue	4:00 PM	6:00 PM	DENSITY FUNCTIONAL THEORY AND REACTIVE MOLECULAR DYNAMICS STUDY OF GAS PHASE POWDER FORMATION
13	FR	Oral	Mon			EFFECT OF STIRRER DESIGN ON THE PERFORMANCE OF ROTATING FOAM STIRRED REACTORS, Maria A. Leon, John van
10	110	Orai	IVIOII	10.43 AW	11.10 AW	der Schaaf, Jaap C. Schouten and T. Alexander Nijhuis
14	СН	Oral	Tue	9:55 AM	10·20 AM	SUGAR DEHYDRATION TO HMF USING SOLID FOAM SUPPORTED ACID CATALYSTS WITH SIMULTANEOUS PRODUCT
• •	0	0.4.		0.007		EXTRACTION, Vitaly V. Ordomsky, John van der Schaaf, Jaap C. Schouten and T. Alexander Nijhuis
16	FC	Poster	Tue	4:00 PM	6:00 PM	ANALYSIS OF THE GROWTH BEHAVIOR OF CARBON NANOFIBERS SYNTHESIZED USING THE LIQUID PULSE INJECTION
17	FC	Oral	Tue	1:30 PM	1:55 PM	
						DYNAMIC MODELING TO STUDY REVERSIBLE POISONING OF A CATALYTIC BED, Sweta Somasi, Paul Witt, Edward Calverley,
						Dana Livingston and Eldad Herceg
18	Gen	Poster	Mon	4:00 PM	6:00 PM	NOVEL CATALYTIC MATERIAL WITH ENHANCED CONTACTING EFFICIENCY FOR VOC DECOMPOSITION AT ULTRA-SHORT
						CONTACT TIME, Sabrina Wahid and Bruce Tatarchuk
19	FR	Poster	Mon	4:00 PM	6:00 PM	A METHOD TO PREDICT PHOSGENATION REACTION PERFORMANCE OF TOLUENE DIISOCYANATE IN JET REACTOR,
						Rongshan Bi, Xinshun Tan and Shiqing Zheng
20	FR	Poster	Mon	4:00 PM	6:00 PM	
						EXPERIMENT AND SIMULATION ON A NEW SWIRL-JET-TYPED SINGLET OXYGEN GENERATOR, Rongshan Bi, Xia Yang,
0.1	F0	D- 1	-	4.00 511	0.00 511	Xinshun Tan and Shiqing Zheng
21	FC	Poster	Tue	4:00 PM	6:00 PM	SYNTHESIS OF SULFONIC ACID FUNCTIONALIZED SILICA MICROHONEYCOMBS, Yoshitaka Satoh, Yuya Yokoyama, Isao Ogino
20	F0	01	T	1.EE DM	2.20 084	and Shin Mukai
22	FC	Oral	Tue	1:55 PM	2:20 PM	SYNTHESIS OF A MONOLITHIC CARBON ACID CATALYST WITH A HONEYCOMB STRUCTURE FOR LIQUID-PHASE
23	Gen	Poster	Mon	4:00 PM	6:00 PM	ESTERIFICATION IN FLOW REACTION SYSTEMS, Isao Ogino, Kazuhiro Murakami, Yoshitaka Satoh and Shin Mukai
23	Gen	FUSIEI	IVIOIT	4.00 FIVI	0.00 FIVI	LIMITS OF OPTIMIZATION IN REACTION ENGINEERING, Michael Nilles
24	FK	Poster	Tue	4:00 PM	6:00 PM	DENSITY FUNCTIONAL THEORY STUDY OF SELECTIVE DEACYLATION OF AROMATIC ACETATE IN THE PRESENCE OF
47	LIX	1 03(6)	Tue	7.00 I W	U.UU I W	PERSON I STOTIONAL INLEGATION OF SELECTIVE PERSON OF ARCHITICA ASETATE IN THE INCOME.

25 CH Poster Tue 4:00 PM 6:00 PM MODEL-AIDED SCALE UP OF A Pt/SiO2 CATALYST FOR POLYMER HYLA Anaya Denise 26 FR Oral Mon 4:00 PM 4:25 PM OPTIMAL ACTIVE CATALYST AND INERT DISTRIBUTION IN CATALYTIC Yisu Nie, Paul Witt, Anshul Agarwal and Lorenz Biegler	PROGENATION, Edward Calverley, Michael Olken and
Anaya Denise 26 FR Oral Mon 4:00 PM 4:25 PM OPTIMAL ACTIVE CATALYST AND INERT DISTRIBUTION IN CATALYTIC	i bito obiverior, bawara odiverioy, mioriaer omerrana
26 FR Oral Mon 4:00 PM 4:25 PM OPTIMAL ACTIVE CATALYST AND INERT DISTRIBUTION IN CATALYTIC	
	IC FIXED BED REACTORS: ORTHO-XYI ENE OXIDATION
	TO TIMES SESTIENT ONC. SITTIO AT LEIVE CAISATION,
27 FK Poster Tue 4:00 PM 6:00 PM TRANSIENT ISOTOPE TRACING OF DIMETHYL ETHER ON AN ALUMIN	NA SUPPORTED PALLADIUM CATALYST, Ronald M
Supkowski and Masood Otarod	VA SOLT ORTED LALLADIOWI CATALTST, Rollaid W.
28 Gen Poster Mon 4:00 PM 6:00 PM MODELING OF CATALYTIC MEMBRANE REACTORS FOR PROPANE DI	DEHVDROCENATION Sound Won Chai Christophor
Jones, David Sholl, Sankar Nair, Sagar Sarsani, Yujun Liu, Ravindra Dixit a	
29 FK Poster Tue 4:00 PM 6:00 PM KINETICS 2.0: NEW PATTERNS OF KINETIC BEHAVIOR ('RECIPROCAL	
COINCIDENCES), Gregory Yablonsky, Denis Constales and Guy Marin	L TIVIL INVARIANCES, INTERSECTIONS AND
	DS EOD CONVEDSION OF DIOMASS INTO FLIELS AND
30 TK5 Keynote Tue 9:30 AM 10:20 AM DESIGN OF FLUIDIZED BED REACTORS AND TRICKLE BED REACTOR CHEMICALS, George Huber, Yong Tae Kim, Pranav Karanjkar and Robert	
32 FR Oral Mon 11:10 AM 11:35 AM THE EFFECT OF PARTICLE SIZE DISTRIBUTION ON TRICKLE-BED REA	EACTOR HTDRODTNAINICS, Glegory Horida, Prillip Gase,
	DAVITY EXTRACTOR France Viscober Chima
	RAVITY EXTRACTOR, Frans visscher, Snima
Saffarionpour, Mart De Croon, John Van der Schaaf and Jaap Schouten 34 FK Poster Tue 4:00 PM 6:00 PM REACTION NETWORK GENERATION TO PREDICT AND DIRECT EXPER	EDIMENTATION FOR MECHANION IDENTIFICATION
Abraham Schuitman, Srinivas Rangarajan, Aditya Bhan and Dan Hickman	
35 FK Oral Tue 9:55 AM 10:20 AM GENERALIZED MODEL OF HYDROCARBONS PYROLYSIS USING AUTO	TOMATED REACTIONS NETWORK GENERATION, Adam
Karaba, Petr Zamostny and Jaromir Lederer	LOOPING OVOTEM Lines Zone Oines Zhou Onne
36 EGF Oral Mon 9:55 AM 10:20 AM MOVING BED REDUCER MODELING FOR GASEOUS FUEL CHEMICAL	LOOPING SYSTEM, Liang Zeng, Qiang Zhou, Omar
McGiveron and Liang-Shih Fan	E OLUG OTATE LINUX/EDOITY/ L: 7 A L T
37 EGF Oral Mon 11:35 AM 12:00 PM IRON-BASED CHEMICAL LOOPING PROCESS DEVELOPMENT AT THE	E OHIO STATE UNIVERSITY, Liang Zeng, Andrew Tong,
Mandar Kathe, Samuel Bayham, Elena Chung and Liang-Shih Fan	WITH CORN T DODED TITANII IN DIOVIDE TI
38 Gen Poster Mon 4:00 PM 6:00 PM PHOTOCATALYTIC DEGRADATION OF GLYCEROL IN VISIBLE LIGHT V	WITH COBALT-DOPED ITTANIUM DIOXIDE, Tin Cao
Trung, Frank Lucien and Adesoji Adesina	
39 EGBR Poster Tue 4:00 PM 6:00 PM A NOVEL EXTRACTIVE REACTOR FOR BIODIESEL PRODUCTION: A PA	PARAMETRIC STUDY, Dean Chesterfield, Frank Lucien,
Peter Rogers and Adesoji Adesina	A NIVALOGO CATALLYCT A CITAL III
40 EGF Poster Mon 4:00 PM 6:00 PM KINETIC STUDY OF PROPANE CO2 REFORMING OVER BIMETALLIC M	Mo-Ni/Al2O3 CATALYST, Arman Siahvashi and Adesoji
Adesina	AND MESONALISM OF CARROW RIGHT CARRIEDS BY
41 FK Oral Tue 10:45 AM 11:10 AM DENSITY FUNCTIONAL THEORY STUDY ON THE THERMODYNAMICS	
CAO AND CAO REGENERATION, Jia Wang, Ze Sun, Guimin Lu, Xingfu Si	
43 FK Poster Tue 4:00 PM 6:00 PM ALKYLATION KINETICS OF ISOBUTANE BY BUTENE USING SULFURIO	C ACID AS CATALYST, Weizhen Sun, Yi Shi, Jie Chen and
Ling Zhao	
45 FK Oral Tue 11:10 AM 11:35 AM GAS PHASE RADICAL CHEMISTRY AND ITS IMPACT ON LIGNIN MODE	EL COMPOUND REACTIVITY, Samuele Sommariva and
Anthony Marion Dean	
46 CH Oral Tue 11:35 AM 12:00 PM REACTIVE ADSORPTION FOR THE SELECTIVE DEHYDRATION OF SU	JGARS TO FURANS: MODELING AND EXPERIMENTS, TD
Swift, C Bagia, P Dornath, V Nikolakis, W Fan and D Vlachos	
47 Gen Poster Mon 4:00 PM 6:00 PM SYNTHESIS AND ADSORPTION PROPERTIES OF LI1.6MN1.6O4 SPINE	
48 FR Oral Mon 1:30 PM 1:55 PM CLOSURE MODEL FOR MULTIPHASE ENTHALPY TRANSFER ASSOCIA	IATED WITH MASS TRANSFER, Jordan Musser, Madhava
Syamlal, Mehrdad Shahnam, Janine Carney and David Huckaby	
49 EV Poster Mon 4:00 PM 6:00 PM TRANSIENT STUDIES OF NOX REDUCTION BY CO AND NH3 FORMATI	FION ON LEAN NOX TRAPS, Prasanna Dasari and Michael
Harold	
50 Gen Poster Mon 4:00 PM 6:00 PM MODELING OF REACTIVE CONDENSATION SYSTEMS, P.A. Ramachane	
51 FK Oral Tue 1:30 PM 1:55 PM FIRST-PRINCIPLES KINETIC MONTE CARLO SIMULATIONS OF WATER	R-GAS SHIFT REACTION KINETICS ON COPPER
SURFACES, Donghai Mei	
52 FR Poster Mon 4:00 PM 6:00 PM COMPARISON OF REACTIVE DISTILLATION AND REACTIVE CHROMA	
WITH ACETIC ACID, Bhoja Reddy, Prafull Patidar, Rahul Bhat, Amit Agarw	
53 FC Poster Tue 4:00 PM 6:00 PM Pd CATALYZED OXIDATION OF GLYCEROL: EFFECT OF DIFFERENT S	SUPPORTS, ASHUTOSH NAMDEO, SANJAY MAHAJANI
and A. K. SURESH	
54 FC Oral Tue 2:20 PM 2:45 PM SODIUM PROMOTION OF Pt/Al2O3 FOR THE WATER-GAS SHIFT REAC	
EXPERIMENTS, Jorge Pazmiño, Jun Wang, Viktor Cybulskis, W. Nicholas	
55 FR Poster Mon 4:00 PM 6:00 PM PRODUCING RANDOMLY PACKED DOMAINS OF ARBITRARILY SHAPE	ED PARTICLES APPROXIMATED AS POLYHDERAL
OBJECTS, Daniel Combest	
56 EGF Oral Mon 12:00 PM 12:25 PM BIMETALLIC FE-NI OXYGEN CARRIERS FOR CHEMICAL LOOPING COI	OMBUSTION, Saurabh Bhavsar and Götz Veser

57	FC	Oral	Tue	3:10 PM	3:35 DM	DESIGN OF BIMETALLIC CATALYSTS FOR PROPANE TOTAL OXIDATION, Nageswara Rao Peela, Ivan C. Lee and Dionisios G.
31	10	Olai	Tue	3.10 T W	3.33 T W	Vlachos
58	EV	Oral	Mon	10:45 AM	11:10 AM	SHORT CONTACT TIME CATALYTIC PLATE DIESEL REFORMER: DETAILED MULTI-PHYSICS MATHEMATICAL MODEL, Mayur Mundhwa, Rajesh Parmar, Brant Peppley and Christopher Thurgood
59	FR	Poster	Mon	4:00 PM	6:00 PM	EXPERIMENTIAL STUDY OF THE FLOW FIELD IN THE HYDROCYCLONE WITH THE OUTLET SEALED, Xingfu Song, Yanxia Xu, Bo Tang, Ze Sun, Ping Li and Jianguo Yu
60	FK	Oral	Tue	1:55 PM	2:20 PM	A KINETIC ANALYSIS METHODOLOGY TO ELUCIDATE SOLVENT EFFECTS IN CATALYTIC LIQUID-PHASE REACTIONS, Sam
		2				K. Wilkinson, Nazita Sedaie Bonab, Mark J.H. Simmons, Chris Hardacre, Helen Daly, Ian McManus, Jillian M. Thompson and E. Hugh
61	FK	Oral	Tuo	2:20 PM	2:45 DM	Stitt PREDICTIVE CHEMICAL KINETICS: A MOLECULAR APPROACH TO 21ST CENTURY ENERGY SOLUTIONS, Amrit Jalan, Joshua
01	FK	Orai	Tue	2.20 PIVI	2.45 PIVI	W. Allen, Shamel S. Merchant, Nick M. Vandewiele, Rajesh D. Parmar, Connie W. Gao, Michael R. Harper, Gregory R. Magoon, Brant A. Peppley, Kevin Van Geem, Guy B. Marin and William H. Green
62	Gen	Poster	Mon	4:00 PM	6:00 DM	ANALYSIS OF PHASE TRANSFORMATION PROCESS OF HYDROMAGNESITE SYNTHESIS VIA NESQUEHONITE
02	Gen	Foster	IVIOIT	4.00 F W	0.00 F W	PYROGENATION, Chen Yang, Xingfu Song, Ze Sun, Shuying Sun and Jianguo Yu
63	FC	Oral	Wed	9:30 AM	9:55 AM	, , , , , , , , , , , , , , , , , , ,
						MOMENTARY EQUILIBRIUM IN TRANSIENT KINETICS AND ITS APPLICATION FOR ESTIMATING THE NUMBER OF CATALYTIC
						SITES, Evgeniy A. Redekop, Gregory S. Yablonsky, Denis Constales, Rebecca Fushimi, John T. Gleaves and Guy B. Marin
64	EGF	Oral	Mon	1:30 PM	1:55 PM	SYNTHESIS GAS TO SYNTHETIC FUELS: A STUDY OF FISCHER-TROPSCH SYNTHESIS CATALYSED BY COBALT DOPED
						SILICA USING SLURRY PHASE REACTOR, Unalome Wetwatana, Nattakan Choosri and Thanes Utistham
65	FR	Poster	Mon	4:00 PM	6:00 PM	A COMPARISON OF TRICKLE BED PRESSURE DROP CORRELATIONS WITH PLANT DATA, Daniel Hickman, Cory Thomas and
00	CII	Onel	Tue	40.00 DM	40.0E DM	Georgios Bellos KINETIC MODELING AND OPTIMIZATION OF POLYMERIZATION REACTIONS, Subash Balakrishna
66 67	CH EV	Oral Oral	Tue Mon			ANALYSIS OF DIESEL PARTICULATE FILTER REGENERATION MODES, Mengting Yu, Dan Luss and Vemuri Balakotaiah
68	EGBR	Oral	Tue			IDENTIFICATION AND ANALYSIS OF BIOMASS CONVERSION ROUTES THROUGH NETWORK GENERATION AND SEMI-
00	EGBK	Olai	rue	11.10 AW	11.33 AW	EMPIRICAL PROPERTY ESTIMATION, Srinivas Rangarajan, Aditya Bhan and Prodromos Daoutidis
69	EGBR	Oral	Tue	11·35 ΔM	12:00 PM	IMPROVING CARBON RETENTION IN BIOMASS CONVERSION BY ALKYLATION OF PHENOLICS WITH SMALL OXYGENATES,
03	LODIC	Olai	Tuc	11.55 AW	12.001 W	Lei Nie and Daniel Resasco
70	СН	Oral	Wed	9:30 AM	9:55 AM	DIRECT SINTYESIS OF HYDROGEN PEROXIDE USING A GLASS FABRICATED MICROREACTOR – ITS PERFORMANCE AND
		2.5.				KINETICS STUDIES, Tomoya Inoue, Kenichiro Ohtaki, Ming Lu, Jiro Adachi, Sunao Murakami, Xu Sun, Sohei Matsumoto and Dong
						F. (Scott) Wang
73	TK6	Keynote	Tue	10:45 AM	11:35 AM	REACTION ENGINEERING CONTRIBUTIONS TO THE INVENTION AND DEVELOPMENT OF CHAIN SHUTTLING
						POLYMERIZATION, Daniel Arriola
74	Gen	Poster	Mon	4:00 PM	6:00 PM	
						THERMO KINETIC INVESTIGATION OF DIFFERENT COLOR EMITTING AERIAL STAR PYROTECHNICS MIXTURE USING
7.5	0	Oval	N4==	0.00 DM	0.45 DM	ACCELERATING RATE CALORIMETER, Sridhar Vethathiri Pakkirisamy, Sivapirakasam SP, Surianarayanan M and Mandal AB
75 76	Gen FK	Oral Oral	Mon Tue	2:20 PM 3:10 PM		APPLICATION OF ATTAINABLE REGION THEORY TO BATCH REACTORS, David Ming, Diane Hildebrandt and David Glasser KINETIC EVIDENCE FOR DIMER INHIBITION OF ETHANOL DEHYDRATION ON GAMMA-ALUMINA, Joseph DeWilde, Hsu Chiang,
70	FK	Olai	rue	3. 10 FW	3.33 FIVI	Dan Hickman and Aditya Bhan
77	EGBR	Poster	Tue	4:00 PM	6:00 PM	FABRICATION AND OPERATION OF FLAT TUBULAR SEGMENTED-IN-SERIES(SIS) SOLID OXIDE FUEL CELLS (SOFC), Tak-
	LOBIT	1 00101	1 40	1.001111	0.001111	Hyoung Lim, Dae-Wi Kim, Jong-Won Lee, Seung-Bok Lee, Seok-Joo Park, Rak-Hyun Song and Dong-Ryul Shin
78	EGBR	Poster	Tue	4:00 PM	6:00 PM	FÁBRICATION AND PERFORMANCE OF TUBULAR DIRECT CARBON FUEL CELL BASED ON THE GENERAL ANODE SUPPORT
						SOLID OXIDE FUEL, Tak-Hyoung Lim, Ui-Jin Yun, Jong-Won Lee, Seung-Bok Lee, Seok Joo Park, Rak-Hyun Song and Dong-Ryul
						Shin
79	FC	Oral	Wed	9:55 AM	10:20 AM	MECHANISTIC STUDY OF SELECTIVE CATALYTIC REDUCTION OF NOX OVER CU CHABAZITE MONOLITHIC CATALYST WITH
						C3H6 AND NH3, Richa Raj, Michael P Harold and Vemuri Balakotaiah
80	FK	Oral	Tue	3:35 PM	4:00 PM	WATER-GAS SHIFT CATALYSIS OVER SUPPORTED GOLD AND PLATINUM NANOPARTICLES, Mayank Shekhar, Jun Wang,
	_					Wen-Sheng Lee, M. Cem Akatay, W. Nicholas Delgass, Fabio H. Ribeiro, Junling Lu, Jeffrey Elam and Jeffrey T. Miller
81	Gen	Oral	Mon	3:10 PM	3:35 PM	MODELING AND SIMULATION OF LAYERED LEAN NOX TRAP AND SELECTIVE CATALYTIC REDUCTION MONOLITHIC
00	FCF	Oral	Mon	1.EE DM	2:20 DM	CATALYSTS, Bijesh Shakya, Michael Harold and Vemuri Balakotaiah
82	EGF	Oral	Mon	1:55 PM	2.20 PIVI	OIL PRODUCTION BY IN-SITU COMBUSTION: AN INTERESTING EXAMPLE OF A LARGE-SCALE, MULTI-PHASE, MULTIFUNCTIONAL HETEROGENEOUS REACTOR, Zhenshuo B. Liu, Kristian Jessen and Theodore Tsotsis
83	EGBR	Oral	Tue	12:00 PM	12:25 DM	CATALYTIC HYDRODEOXYGENATION OF GUAIACOL, Danni Gao, Hyun Tae Hwang and Arvind Varma
85	FC	Poster	Tue	4:00 PM		ISOBUTYLENE SYNTHESIS FROM WATER-CONTAINIG ACETONE OVER POTASIUM-EXCHANGED BEA ZEOLITE, Teruoki
	. 0	. 55101		1.001111	3.33 i ivi	Tago, Hiroki Konno, Seiji Yamazaki, Wataru Ninomiya, Toshiya Yasukawa, Yuta Nakasaka and Takao Masuda
86	СН	Oral	Wed	9:55 AM	10:20 AM	UPGRADING OF CRUDE GLYCEROL OVER ZIRCONIA-IRON OXIDE CATALYST FOR PRODUCTION OF USEFUL CHEMICALS,
						Aya Konaka, Teruoki Tago, Takuya Yoshikawa, Ayaka Nakamura, Yuta Nakasaka and Takao Masuda
1					1	

## ARBITRARY SHAPE AND ABNORMAL KINETICS, Needor Mariani, Maria Taularinet, Sergio Koegan, Osvido Martinicz and Guillerine ## Sergio Poster ## On 4 400 PM 6 800 PM 6 100 PM 100	87	Gen	Poster	Mon	4:00 PM	6:00 PM	PERFORMANCE OF ONE-DIMENSIONAL APPROXIMATIONS TO PREDICT EFFECTIVENESS FACTOR FOR PELLETS WITH
Sameton	01	CCII	1 00101	IVIOII	4.001 101	0.001 101	
Beltramin, Victor Rudolph and Max Lu							
Beltramins, Victor Rudolph and Max Lu 90 EGIR Poster Mon 4:00 PM 6:00 PM INSULATION ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING CONTINUOUS REACTOR WITH 91 FR Poster Mon 4:00 PM 6:00 PM INSULATION ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING CONTINUOUS REACTOR WITH 92 FV Poster Mon 4:00 PM 6:00 PM INSULATION ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING CONTINUOUS REACTOR WITH 93 EGIR Oral Mon 4:00 PM 6:00 PM FAST LUSING ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING CONTINUOUS REACTOR WITH 94 FV Poster Mon 4:00 PM 6:00 PM FAST LUSING ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING CONTINUOUS REACTOR WITH 95 EGIR Oral Tue 4:00 PM 6:00 PM FAST CONTINUOUS REACTOR WITH ALCAE OIL LUSING ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING ANALYSIS FOR WITH ALCAE OIL LUSING ANALYSIS FOR MACROSIS OF LAND ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING ANALYSIS FOR MACROSIS OF LAND ANALYSIS OF BIODISESE PRODUCTION FROM ALCAE OIL LUSING ANALYSIS FOR MACROSIS OF LAND ANALYSIS OIL LUSING ANALYSIS OIL LUGA ANALYSIS OIL LUSING ANALYSIS OIL LUSING ANALYSIS OIL LUSING A	88	EGF	Poster	Mon	4:00 PM	6:00 PM	DEVELOPMENT OF NON-NOBLE METAL CATALYSTS FOR GAS CONVERSION TO ETHNOL, Rongang Ding, Geoff Wang, Jorge
89 Gen							
SUPERCRITICAL METHOD, Aline Santana, Josep Magaira, Sergio Santos, M. Angeles Larrayoz and Rubers Maciel Fillio 92 EV Pesiter Mon 4:00 PM 6:00 PM 75 FE COMPLEXITY OF THE 93 EGR Oral Tue 4:00 PM 4:00 PM 6:00 PM 75 FE CONTROL TUE. Mathew Goncalives, David Ming, Diane Hildebrandt and David Glasser 94 Gen Positer Mon 4:00 PM 4:00 PM 6:00 PM 75 FE CONTROL TUE. Mathew Goncalives, David Ming, Diane Hildebrandt and David Glasser 95 EGR Oral Tue 4:00 PM 4:00 PM 6:00 PM 75 FE CONTROL TUE. Mathew Goncalives, David Ming, Diane Hildebrandt and David Glasser 96 Gen Positer Mon 4:00 PM 6:00 PM RESPONSE OF PLANKTONIC AND BENTHIC MICROBIAL COMMUNITY TO URBAN POLUTION FROM SERVAGE DISCHARGE NJILIN REACH OF THE SECOND SONSHUM RIVER, CHANGE AND SANDHAR RIV	89	Gen	Poster	Mon	4:00 PM	6:00 PM	
91 FR Poster Mon 4:00 PM 6:00 PM THE RELATIONSHIP BETWEEN THE GEOMETRY OF THE REACTION VECTOR FIELD AND THE COMPLEXITY OF THE COMPLEXITY O	90	EGBR	Poster	Tue	4:00 PM	6:00 PM	SIMULATION ANALYSIS OF BIODIESEL PRODUCTION FROM ALGAE OIL USING CONTINUOUS REACTOR WITH
91 FR Poster Mon 4:00 PM 6:00 PM THE RELATIONSHIP BETWEEN THE GEOMETRY OF THE REACTION VECTOR FIELD AND THE COMPLEXITY OF THE COMPLEXITY O							SUPERCRITICAL METHOD, Aline Santana, José Maçaira, Sergio Santos, M. Angeles Larrayoz and Rubens Maciel Filho
93 EGR Oral Tue 400 PM 425 PM ATE CARLANGED CYCLING FOR ENHANCE DE LEAN NOX CONVERSION, Charles Pering and Michael Harold 93 EGR Oral Tue 400 PM 425 PM ATE OF SILOXANE IMPURITIES DURING THE COMBUSTION OF RENEWABLE NATURAL GAS AND THEIR IMPACT ON THE PATE OF SILOXANE IMPURITIES DURING THE COMBUSTION OF RENEWABLE NATURAL GAS AND THEIR IMPACT ON THE PATE OF SUNCAS AND THE PATE OF SUNCAS AND THEIR IMPACT ON THE PATE OF SUNCAS AND THE SUNCAS AND THE PATE OF SUNCAS AND THE SU	91	FR	Poster	Mon	4:00 PM	6:00 PM	
93 EGBR Oral Tue 4:00 PM 4:25 PM FATE OF SLOXANE IMPURTIES DURING THE COMBUSTION OF RENEWABLE NATURAL GAS AND THEIR IMPACT ON THE OPERATINO NO FAUTURAL GAS COUPMENT, A. JOBALIN, Natr. M. M. Y. MORIMORICHASHEM, J. Outlerez, J. Chen, F. N. Egolfopoulos and T. T. Tsotsis. 94 Gen Poster Mon 4:00 PM 6:00 PM RESPONSE OF PLANKTONIC AND BENTHIC MICROBIAL COMMUNITY TO URBAN POLILUTION FROM SEWAGE DISCHARGE IN JULIN REACH OF THE SECOND SONGHLAR RIVER, CHIRA, SHARISHAL IN, Ying WANG and Jiling LIN N. JULIN REACH OF THE SECOND SONGHLAR RIVER, CHIRA, SHARISHAL IN, Ying WANG and Jiling LIN N. JULIN REACH OF THE SECOND SONGHLAR RIVER, CHIRA SHARISHAL IN, Ying WANG and Jiling LIN N. JULIN REACH OF THE SECOND SONGHLAR RIVER, CHIRA SHARISHAL IN, Ying WANG and Jiling LIN N. JULIN REACH OF THE SECOND SONGHLAR RIVER, CHIRA SHARISHAL LIN, Ying WANG and Jiling LIN N. JULIN REACH OF THE SECOND SONGHLAR RIVER RIVER AND SONGHLAR RIVER RIVE							OPTIMAL REACTOR STRUCTURE., Mathew Goncalves, David Ming, Diane Hildebrandt and David Glasser
OPERATION OF NATURAL GAS EQUIPMENT, A. Jalail, N. Nair, M. M. Mohamedhashemi, J. Guberrez, J. Chen, F. N. (Egolpopulos and T. T. 1 Salais) (Property of the Control of the	92	EV	Poster	Mon			
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95 FC Oral Wed 10.45 AM 11:1-0 AM CHARACTERISTICS OF MAGNESIUM-PROMOTED PTZSM-23 CATALYST FOR THE HYDROISOMERIZATION OF N-HEXADECANE. Seung-Woo Lee and Son-Ki Ihm 96 Gen Oral Mon 4:00 PM 4:25 PM OPTIMAL EXPERIENT DESIGN FOR MODE LIDSCRIMINATION IN INCREMENTAL MODEL IDENTIFICATION, Nimet Kerimoglu, Acld Mhamdi and Wollgang Marquardt 97 EGF Oral Mon 2:20 PM 2:45 PM MODELING AND SIMULATION OF COAL GASIFICATION PROCESS IN A BUBBLING FLUIDISED BED, Ankit Jain, Anuraig Mehra and Vivek Ranade 98 CH Poster Tue 4:00 PM 6:00 PM PROCESS SDEVELOPMENT FOR SYNGAS SYNTHESIS THROUGH GLYCEROL PYROLYSIS, Ana Paula Peres, Nivea da Sliva, Belania Lunelli, Maria Regina Maciel and Rubens Maciel Filino 99 FC Poster Tue 4:00 PM 6:00 PM ACTIVE METAL SURFACE AREA PULIS C FUNDS FORTON, TEMERATURE PROGRAME TECHNIQUE AND CYCLIC VOLTAMMETRY, Ashutosh Namdeo, Manisaran D. S. M. Mahajani, A.K. Suresh and Arindam Sarkar 100 FR Poster Tue 4:00 PM 6:00 PM NON-ADIABATIC MULTI-TUBULAR FIXED BED CATALYTIC REACTOR COUPLED WITH SHELL-SIDE CFD MODELING, Eric Hukkanen, Michael Rangitsch and Paul Wilt 101 MK1 Keynote Mon 9:30 AM 10:20 AM 1, ALIMINA AND TUNGSTOPHOSPHORIC ACID LOADED MESOPOROUS CATALYSTS FOR THE POLYETHYLENE DEGRADATION REACTION, Naime Segi and Bugge Aydemir 104 CH Poster Tue 4:00 PM 8:00 PM 1, ALIMINA AND TUNGSTOPHOSPHORIC ACID LOADED MESOPOROUS CATALYSTS FOR THE POLYETHYLENE DEGRADATION REACTION, Naime Segi and Bugge Aydemir 105 CH Oral Wed 10:45 AM 11:1-04 MICHAEL STANDAY MARCHAEL STAN							
95 FC Oral Wed 10-45 AM 11:10 AM CHARACTERISTICS OF MAGNESIUM-PROMOTED PTIZSM-23 CATALYST FOR THE HYDROISOMERIZATION OF N-HEXADECANE, Seung-Woo Lee and Son-Kill Magnesian Control Mon 4:25 PM OPTIMAL EXPERIMENT DESIGN FOR MODEL DISCRIMINATION IN INCREMENTAL MODEL IDENTIFICATION, Nimet Kerimogiu, Adel Manadinal and Wolfgang Marquardt Adel Manadinal and Wolfgang Marquardt Adel Manadinal Among Magnesian Control Magnesian Contr	94	Gen	Poster	Mon	4:00 PM	6:00 PM	
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Betania Lunelli, Maria Regina Maciel Filho 99 FC Poster Tue 4:00 PM 6:00 PM A INTERMETA LURE PROGRAME TECHNIQUE AND CYCLIC VOLTAMMETRY, Ashutosh Namdeo, Manisaran D, S.M. Mahajani, A.K. Suresh and Arindam Sarkar 100 FR Poster Mon 4:00 PM 6:00 PM A INTERMETA LURE PROGRAME TECHNIQUE AND CYCLIC VOLTAMMETRY, Ashutosh Namdeo, Manisaran D, S.M. Mahajani, A.K. Suresh and Arindam Sarkar 102 CH Poster Tue 4:00 PM 6:00 PM ALUMINA AND TUNGSTOPHOSPHORIC ACID LOADED MESOPOROUS CATALYSTS FOR THE POLYETHYLENE DEGRADATION REACTION, Naime sezgi and Bugge Aydemir 103 MK1 Keynote Mon 9:30 AM 10:20 AM LIFECYCLE OF CATALYSTS IN DIESEL EMISSION CONTROL SYSTEMS, Aleksey Yezerets, Neal Currier, Krishna Kamasamudram, Junhul Li and Ashok Kumar 104 CH Poster Tue 4:00 PM 6:00 PM A THERMODYNAMIC ANALYSIS: SYNGAS PRODUCTION FROM PALMITIC ACID VIA OXIDATIVE REFORMING USING HYDROGEN PEROVICE (H202) AND SYSTEMS, Aleksey Yezerets, Neal Currier, Krishna Kamasamudram, Junhul Li and Ashok Kumar 105 CH Oral Wed 10:45 AM 11:10 AM MAPPING OF THE HIGH-IMPACT POLYPROPYLENE MORPHOLOGY ALONG THE VARIOUS STAGES OF ITS PRODUCTION, Kiara Smolna. Tomas Gregor and Juraj Kosek 106 FK Poster Tue 4:00 PM 6:00 PM RESPONDED THE HIGH-IMPACT POLYPROPYLENE MORPHOLOGY ALONG THE VARIOUS STAGES OF ITS PRODUCTION, Kiara Smolna. Tomas Gregor and Juraj Kosek 107 FR Oral Mon 1:55 PM 2:20 PM CMPH-THEORETICAL ANALYSIS OF MECHANISM AND KINETICS OF COMPLEX REACTION NETWORKS, Ravindra Datta, Patrick D. O'Malley, Saurabh A. Vilekar, Ilie Fishtik, Gabor Sarkozy and George T. Heineman 107 FR Oral Mon 3:35 PM 4:00 PM FAMPH-THEORETICAL ANALYSIS OF MECHANISM AND KINETICS OF COMPLEX REACTION NETWORKS, Ravindra Datta, Patrick D. O'Malley, Saurabh A. Vilekar, Ilie Fishtik, Gabor Sarkozy and George T. Heineman 108 EGF Oral Mon 3:35 PM 4:00 PM FAMPH-THEORETICAL ANALYSIS OF MECHANISM AND KINETICS OF COMPLEX REACTION NETWORKS, Ravindra Datta, Patrick D. O'Malley, Saurabh A. Vilekar, Ilie Fishtik, Gabor Sarkozy and George T. Heineman 109 EGF Oral Mon 3:35 PM 4:00 PM FAMPH-THEORETIC							
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102 CH	100	FR	Poster	Mon	4:00 PM	6:00 PM	· ·
DEGRADATION REACTION, Naime Sezgi and Bugge Aydemir 103 MK1 Keynote Mon 9:30 AM 10:20 AM LIFECYCLE OF CATALYSTS IN DIESEL EMISSION CONTROL SYSTEMS, Aleksey Yezerets, Neal Currier, Krishna Kamasamudram, Junhui Li and Ashok Kumar 104 CH Poster Tue 4:00 PM 4:00 PM HYDROGEN PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana HYDROGEN PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana HYDROGEN PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana HYDROGEN PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana HYDROGEN PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana MAPPING OF THE HIGH-IMPACT POLYPROPYLENE MORPHOLOGY ALONG THE VARIOUS STAGES OF ITS PRODUCTION, MISSING PEROXIDE (H202) AND OXYGEN (02), Thanarak Srisurat, Tawiwan Kangsadan and Unalome Wetwatana MAPPING OF THE HIGH-IMPACT POLYPROPYLENE MORPHOLOGY ALONG THE VARIOUS STAGES OF ITS PRODUCTION, MISSING PEROXIDE (H202) AND OXYGEN (120), PEROXIDE STAGES OF ITS PRODUCTION, MISSING PEROXIDE (H202) AND OXYGEN PEROXIDE	400	CLI	Dantan	T	4:00 DM	C.00 DM	
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Um-E-Salma Amjad, Camilla Galletti, Antonio Vita, Lidia Pino and Stefania Specchia 109 EGF Oral Mon 3:35 PM 4:00 PM THREE-PHASE FISCHER-TROPSCH WAX HYDROCRACKING MODELING TAKING INTO ACCOUNT THE DIFFERENT PHYSISORPTION FROM LIQUID AND VAPOR PHASES, Simone Gamba and Laura Pellegrini 110 Gen Poster Mon 4:00 PM 6:00 PM FINE NANOPARTICLES LAYERS PREPARED BY ELECTROSPRAYING AND THEIR APPLICATIONS IN MNXOY SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek 111 EGBR Poster Tue 4:00 PM 6:00 PM SYNTHESIS AND CHARACTERIZATION OF GUANIDINE BASE-FUNCTIONALIZED MG/AL LAYERED DOUBLE HYDROXIDES, Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-	108	EGF	Oral	Mon	3:10 PM	3:35 PM	
PHYSISORPTION FROM LIQUID AND VAPOR PHASES, Simone Gamba and Laura Pellegrini 110 Gen							
110 Gen Poster Mon 4:00 PM 6:00 PM FINE NANOPARTICLES LAYERS PREPARED BY ELECTROSPRAYING AND THEIR APPLICATIONS IN MNXOY SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek SYNTHESIS AND CHARACTERIZATION OF GUANIDINE BASE-FUNCTIONALIZED MG/AL LAYERED DOUBLE HYDROXIDES, Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-	109	EGF	Oral	Mon	3:35 PM	4:00 PM	THREE-PHASE FISCHER-TROPSCH WAX HYDROCRACKING MODELING TAKING INTO ACCOUNT THE DIFFERENT
FINE NANOPARTICLES LAYERS PREPARED BY ELECTROSPRAYING AND THEIR APPLICATIONS IN MNXOY SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek 111 EGBR Poster Tue 4:00 PM 6:00 PM SYNTHESIS AND CHARACTERIZATION OF GUANIDINE BASE-FUNCTIONALIZED MG/AL LAYERED DOUBLE HYDROXIDES, Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							PHYSISORPTION FROM LIQUID AND VAPOR PHASES, Simone Gamba and Laura Pellegrini
FINE NANOPARTICLES LAYERS PREPARED BY ELECTROSPRAYING AND THEIR APPLICATIONS IN MNXOY SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek 111 EGBR Poster Tue 4:00 PM 6:00 PM SYNTHESIS AND CHARACTERIZATION OF GUANIDINE BASE-FUNCTIONALIZED MG/AL LAYERED DOUBLE HYDROXIDES, Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-	110	Gen	Poster	Mon	4:00 PM	6:00 PM	
111 EGBR Poster Tue 4:00 PM 6:00 PM SYNTHESIS AND CHARACTERIZATION OF GUANIDINE BASE-FUNCTIONALIZED MG/AL LAYERED DOUBLE HYDROXIDES, Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							FINE NANOPARTICLES LAYERS PREPARED BY ELECTROSPRAYING AND THEIR APPLICATIONS IN MNXOY
Mohammad Islam and Tracy Benson 112 EGBR Oral Tue 2:20 PM 2:45 PM KINETIC MODELING OF STEAM GASIFICATION OF CELLULOSE USING A CREC RISER SIMULATOR, A S M Jahirul I Mazumder and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							SUPERCAPACITORS, DSSC AND LITHIUM TITANATE BATTERIES, Jiri Marsalek, Karel Zucek, Romana Fojtikova and Juraj Kosek
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and Hugo de Lasa 113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							,
113 FR Poster Mon 4:00 PM 6:00 PM MODELING ANALYSIS AND EXPERIMENTAL DEMONSTRATION OF ENHANCED HYDROGEN PERMEATION IN PALLADIUM VIA A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-	112	EGBR	Oral	Tue	2:20 PM	2:45 PM	· ·
A COMPOSITE CATALYTIC-PERMSELECTIVE (CCP) MEMBRANE, Daejin Kim, Kevin Barnett, Elva Lugo Romero and Benjamin A. Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							· ·
Wilhite 114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-	113	FR	Poster	Mon	4:00 PM	6:00 PM	
114 EV Poster Mon 4:00 PM 6:00 PM SPATIOTEMPORAL BEHAVIOR OF MULTIFUNCTIONAL PT/PD/ZEOLITE-BETA DIESEL OXIDATION CATALYSTS FOR LOW-							, , , , , , , , , , , , , , , , , , , ,
TEMPEDATI DE CYIDATION DE CADDON MONOVIDE AND UVDDOCADDONS. Crogory Duggob and Michael Harald	114	EV	Poster	Mon	4:00 PM	6:00 PM	
							TEMPERATURE OXIDATION OF CARBON MONOXIDE AND HYDROCARBONS, Gregory Bugosh and Michael Harold

115	FC	Oral	Wed	11:10 AM	11:35 AM	Rh-CATALYZED HYDROFORMYLATION WITH COMMERCIAL POLYSILOXANE LIGANDS IN A CONTINUOUS NANOFILTRATION
110	. 0	Olai	1100	11110744	11.007.00	MEMBRANE REACTOR, Zhuanzhuan Xie, Bibhas Sarkar, Raghunath V Chaudhari and Bala Subramaniam
116	Gen	Oral	Wed	9:30 AM	9:55 AM	A RADIAL MICROCHANNEL REACTOR (RMR) PROVIDES BREAKTHROUGHS IN EFFICIENT HYDROGEN PRODUCTION FROM
117	Gen	Oral	Wed	9:55 AM	10:20 AM	NATURAL GAS, Peter Bossard, Jacob Mettes, Luis Breziner and Benjamin Wilhite SYNTHESIS OF IRON-DOPED BARIUM ZIRCONATE PEROVSKITE AND ITS ELECTROCHEMICAL AND MATERIALS
118	EGBR	Poster	Tue	4:00 PM	6:00 PM	PROPERTIES, Haomiao Zhang and Benjamin Wilhite THEORETICAL INVESTIGATION OF COMPOSITE CATALYTIC MEMBRANES FOR EXTRACTION OF HYDROGEN FROM BIO-
						ETHANOL, Bhanu Vardhan Reddy Kuncharam and Benjamin Wilhite
119	FK	Poster	Tue	4:00 PM	6:00 PM	A UNIFIED KINETIC MODEL FOR PHENOL PHOTODEGRADATION BY NONLINEAR REGRESSION AND GENETIC ALGORITHM, Jesus Moreira, Benito Serrano and Hugo de Lasa
120	FK	Poster	Tue	4:00 PM	6:00 PM	Wordshare Service Serv
120		. 66161	140	1.0011	0.001 111	KINETIC MODELING AND REACTIVITY TEST OF ETHANE OXIDATIVE DEHYDROGENATION OVER VOX/Γ-AL2O3 CATALYST IN A FLUIDIZED-BED RISER SIMULATOR, Sameer Al-Ghamdi, Mohammad Hossain, Maria Volpe and Hugo de Lasa
121	EGBR	Poster	Tue	4:00 PM	6:00 PM	CHARACTERIZATION OF BLENDS PROPERTIES OF CASTOR BIODIESEL AND BIOETHANOL, Nivea De Lima Da Silva, Carlos M
						García Santander, Sandra M. Gómez Rueda, M. Regina Wolf Maciel and R. Maciel Filho
122	EGF	Poster	Mon	4:00 PM	6:00 PM	EXTENSION OF THE TRUE BOILLING POINT CURVE OF A HEAVY CRUDE OIL THROUGH DISTILLATION MOLECULAR AND CHARACTERIZATION OF THE PRODUCTS OBTAINED, Melina Lopes
123	EGF	Poster	Mon	4:00 PM	6:00 PM	REACTIVITY AND KINETICS FOR BENZOTHIOPHENE CONVERSION OVER A H-ZSM5 BASED CATALYST, Saad Al-Bogami and
120	201	1 00101	IVIOII	4.00 T W	0.00 1 101	Hugo de Lasa
124	СН	Poster	Tue	4:00 PM	6:00 PM	SYNTHESIS AND CHARACTERIZATION OF POLY (LACTIC ACID) FOR BIOMEDICAL APPLICATIONS, Milena Savioli Lopes, Melina Lopes, André Jardini and Rubens Maciel Filho
125	WK11	Keynote	Wed	11:35 AM	12:25 PM	MULTIPHASE CATALYTIC PROCESSES FOR RENEWABLE FEEDSTOCKS TO CHEMICAL INTERMEDIATES: KINETICS, MECHANISM AND REACTION ENGINEERING, Raghunath V. Chaudhari, Arely Torres, Xin Jin and Bala Subramaniam
126	EGBR	Poster	Tue	4:00 PM	6:00 PM	ORGANOMETALIC CATALYTS FOR CO2 REDUCTION TO CO, Michael Thorson, Claire Tornow, Sichao Ma, Andrew Gewirth and
120	LOBIT	1 00101	140	4.001 101	0.00 1 101	Paul Kenis
127	FC	Oral	Wed	11:35 AM	12:00 PM	KINETIC MODELLING OF HYDROGENOLYSIS OF SUGAR BASED POLYOLS USING A BIMETALLIC RU-RE/C CATALYST IN A
	. •	0.0.				SLURRY REACTOR, Xin Jin, Bala Subramaniam and Raghunath Chaudhari
128	EGBR	Poster	Tue	4:00 PM	6:00 PM	EXPERIMENTAL STUDY AND MONTE CARLO SIMULATIONS ON THE EFFECT OF DIFFERENT SCATTERING MODES ON THE
						RADIATION FIELD IN THE PHOTO-CREC WATER-II REACTOR., Patricio Javier Valades, Jesus Moreira, Hugo Ignacio De Lasa and
						Benito Serrano
129	CH	Oral	Wed	11:10 AM	11:35 AM	
						HIGHLY SELECTIVE ETHYLENE EPOXIDATION WITH HYDROGEN PEROXIDE ON CERIUM INCORPORATED THREE-
						DIMENSIONAL AMORPHOUS MESOPOROUS SILICATE, Ce-TUD-1, Wenjuan Yan, Anand Ramanathan and Bala Subramaniam
130	FK	Oral	Tue	4:00 PM	4:25 PM	INTRINSIC KINETICS OF ISOPROPANOL DEHYDRATION TO PROPENE ON ACIDIC MESOPOROUS Zr-KIT-6 CATALYST, Qing
						Pan, Anand Ramanathan and Bala Subramaniam
131	FK	Poster	Tue	4:00 PM	6:00 PM	EFFECTS OF ACID SITE LOCATION ON THE RATE, SELECTIVITY, AND MECHANISM OF ALCOHOL DEHYDRATION AND N-
						HEXANE HYDROISOMERIZATION, HSU CHIANG and Aditya Bhan
132	EGBR	Poster	Tue	4:00 PM		HYDROGEN EVOLUTION USING A MODIFIED PT-TIO2 PHOTOCATALYST IN A PHOTO-CREC REACTOR FOR QUANTUM YIELD ANALYSIS, Salvador Escobedo, Benito Serrano and Hugo de Lasa
133	Gen	Poster	Mon	4:00 PM	6:00 PM	DIFFUSION COEFFICIENTS AND RETENTION FACTORS OF TAR DERIVED SPECIES IN CAPILLARY COLUMNS USING PEAK
						GAUSSIAN-LIKE APPROXIMATION SOLUTION, Gabriela Navarro-Tovar, Jesús Moreira and Hugo de Lasa
134	EGBR	Oral	Tue	3:10 PM	3:35 PM	A KINETIC STUDY ON HOT-WATER EXTRACTION OF PAULOWNIA ELONGATA WOODCHIPS, Jipeng Yang, Nirmal Joshee and
						Shijie Liu
135	FR	Poster	Mon	4:00 PM	6:00 PM	STEADY STATE SIMULATION OF A NOVEL ANNULAR MULTI-TUBULAR REACTOR FOR ENHENCED METHANOL PRODUCTION, Abdulaziz Alarifi
137	EGF	Poster	Mon	4:00 PM	6:00 PM	FRACTIONATION AND CHARACTERIZATION OF A PETROLEUM RESIDUE BY MOLECULAR DISTILLATION PROCESS, Erica
						Roberta Rocha, Maria Regina Wolf Maciel, Rubens Maciel Filho and Lilian Carmen Medina
138	FR	Oral	Mon	2:20 PM	2:45 PM	PREDICTION OF MASS TRANSFER COEFFICIENTS IN A SLURRY BUBBLE COLUMN BASED ON THE GEOMETRICAL
						CHARACTERISTICS OF BUBBLES, Stoyan Nedeltchev and Adrian Schumpe
139	FR	Oral	Mon	9:30 AM	9:55 AM	NON-ISOTHERMAL MODELING STUDIES OF THE COUPLED LNT-SCR CATALYST. Arun Kota. Dan Luss and Vemuri Balakotaiah
140	FK	Oral	Tue	9:30 AM	9:55 AM	DETERMINING KINETIC PARAMETERS FOR NICKEL OXIDE REDUCTION IN CHEMICAL LOOPING COMBUSTION, Mohammad
111	0.5.5	Destan	N A	4.00 014	0.00 014	Quddus, Mohammad Hossain and Hugo de Lasa
141	Gen	Poster	Mon	4:00 PM		NEW METHOD FOR TEMPERATURE MEASUREMENTS IN HONEYCOMB REACTORS, Hoang Nguyen, Harold Michael and Dan Luss
143	FC	Oral	Wed	12:00 PM	12:25 PM	STEADY STATE AMMONIA OXIDATION ON A DUAL AND MIXED PGM/SCR CATALYSTS, Sachi Shrestha, Michael Harold, Krishna
						Kamasamudram and Aleksey Yezerets

144	EV	Oral	Mon	12:00 PM	12:25 PM LEAN NOX REDUCTION WITH H2 AND CO OVER DUAL-LAYER LNT-SCR MONOLITHIC CATALYSTS, Yi Liu, Yang Zheng,
					Michael Harold and Dan Luss
145	EGBR	Oral	Tue	3:35 PM	4:00 PM ENZYMATIC HYDROLYSIS OF PECTIN-RICH BIOMASS WITH SIMULTANEOUS ADSORPTION OF GALACTURONIC ACID ONTO
					WEAKLY BASIC ANION EXCHANGE RESINS, Raul Cesar Rivas and Patrick Mills
146	Gen	Poster	Mon	4:00 PM	6:00 PM OPTIMUM PHOTOREACTOR DESIGN FOR THE TREATMENT OF WASTEWATER, Chih Ming Ma, Ben Hong Lia and Yung Shuen
					Shen
147	Gen	Poster	Mon	4:00 PM	6:00 PM PERFORMANCE ENHANCEMENT OF STYRENE RADIAL FLOW REACTORS BY USING MULTIOBJECTIVE GENETIC
					ALGORITHM, abdulaziz alarifi
148	EGBR	Poster	Tue	4:00 PM	6:00 PM FIBER REACTOR FOR ULTRA-HIGH EFFICIENCY BIODIESEL MANUFACTURING, Patrick Mills and Raul Villareal Rivas
149	Gen	Oral	Wed	12:00 PM	12:25 PM A NANOSCALE MODEL FOR CHARACTERIZING THE PORE STRUCTURE OF SOLID REACTANTS WITH ORDERED AND
					RANDOM PORES, Kyriacos Zygourakis, Hao Sun and Pauline Markenscoff
150	CH	Poster	Tue	4:00 PM	6:00 PM ANALYSIS OF CATALYST SHAPE ON CATALYST PERFORMANCE USING COMSOL MULTIPHSYICS, Patrick Mills and Anuradha
					Nagaraj
151	TP2	Plenary	Tue	8:15 AM	9:15 AM TRANSITIONS: FROM MOLECULE TO CHEMICAL PLANT AND FROM FOSSIL TO RENEWABLE FEEDSTOCK, Guy Marin
152	EGF	Oral	Mon	4:00 PM	4:25 PM MODELING OF VACUUM RESIDUE HYDROCRACKING VIA MOLECULAR FEED RECONSTRUCTION AND MOLECULE-BASED
					MONTE CARLO KINETICS, Jan Verstraete, Luis Pereira de Oliveira and Max Kolb
153	EGBR	Poster	Tue	4:00 PM	6:00 PM ALGAE BIOFUELS BIOREACTOR: DEVELOPMENT OF SCALE-UP TOOLS, Rustom M. Billimoria, Justin A. Federici, William S.
					Holloway, David A. Masciola, Robert Nielsen, Paul Podsiadlo, Ronald Suryo and Joseph Weissman
154	TK8	Keynote	Tue	1:30 PM	2:20 PM ELECTRODES FOR SOLID OXIDE FUEL CELLS AND ELECTROLYZERS, Raymond Gorte
156	MK3	Keynote	Mon	11:35 AM	12:25 PM
					CHEMICAL REACTION ENGINEERING CHALLENGES IN THE REFINING INDUSTRY – THE DECADE AHEAD, Thomas Degnan
157	EV	Oral	Mon	11:35 AM	
					Thirupathi Boningari, Padmanabha Reddy Ettireddy, Arpad Somogyvari and Panagiotis Smirniotis
158	MK4	Keynote	Mon	1:30 PM	2:20 PM ROLE OF NITRITE AND NITRATE SPECIES IN LEAN NOX CONTROL CATALYSIS, Pio Forzatti
159	TK9	Keynote	Tue	3:35 PM	4:25 PM PROCESS AND CATALYST INTENSIFICATION FOR BIOMASS PROCESSING, Dionisios Vlachos
160	WP3	Plenary	Wed	8:15 AM	9:15 AM CFD MODELING OF FLOW, MIXING AND REACTION IN POLYDISPERSE MULTIPHASE SYSTEMS, Rodney O. Fox
161	FC	Poster	Tue	4:00 PM	6:00 PM SULFUR DEACTIVATION EFFECTS ON CATALYTIC STEAM REFORMING OF PRODUCER GAS ,FROM BIOMASS
					GASIFICATION, Parham Sadooghi
162	MP1	Plenary	Mon	8:15 AM	9:15 AM DIVERSIFICATION OF THE WORLD'S ENERGY SOURCES AND ITS CHALLENGES FOR THE CHEMICAL REACTION
					ENGINEERING PROFESSION, Kurt VandenBussche
163	WK10	Keynote	Wed	10:45 AM	11:35 AM SUSTAINABLE REACTION ENGINEERING SOLUTIONS: AN UPDATE, Jan J. Lerou