	ISCRE 27 Program Schedule						
	Sunday, June 11						
1:00-7:00pm	Symposium Registration (Grande Place)						
2:00-5:00pm	Laboratory Reactors Workshop Modeling of Catalytic Reactors in gPROMS Scaling of Reacting Systems Technical Writing						
	(Kent) Process Workshop (Courville) (Beauport) (Sainte-Foy)						
5:00-6:30pm		Dinne	r on Own				
6:30-7:20pm	Introductory Remarks (Palais & Kent)						
	Opening Plenary Presentation (Palais & Kent): Rob Crane (Process Innovation & Scale-up Manager, ExxonMobil)						
7:20-9:00pm	Welcome Reception						
		(Gran	de Place)				

	ISCRE 27 Program Schedule					
			Monday, June 12			
			Palais & Kent			
8:00-8:10am	Introductory Remarks and Sympos	ium Announcements				
	Aris Award Presentation, Sponsore	d by Honeywell UOP				
8:10-8:55am	Symposium Plenary: Andrea Bozzano (Sr Director Technology Development, Honeywell UOP)					
8:55-9:40am	n Symposium Plenary: Yanet Villasana (IKIAM Amazon Regional University) – Sponsored by Dow Chemical					
9:40-10:05am		Brea	k: Coffee and Refreshments (Grande	Place)		
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency	
	Session 1	Session 2	Session 3	Session 4	Session 5	
	Catalytic Reaction	Process Intensification 1	CO ₂ Capture, Conversion	Computational Fluid Dynamics	Pharmaceutical and Biological	
	Engineering 1		and Valorization 1	in Reaction Engineering	Reaction Engineering 1	
	Chair: Matthew Mettler	Chair: Daria Boffito	Chair: Ying Zheng	Chair: Rodney Fox	Chair: Domenico Fuoco	
	Co-Chair: Ryan Hartman	Co-Chair: Marc-Olivier Coppens	Co-Chair: David Simakov	Co-Chair: Bruno Blais		
10:05-10:21am	Aris Award Winner,	"Process Intensification of Upstream	"The Role of Reaction Engineering in	"catchy-CFDEM: Euler-Lagrange	"Reactivity of Advanced Glycation End	
	"Harnessing Coupled	Purification of Biorefinery Streams:	the Scale-up of a Plate-Type Reactor for	Computational Fluid Dynamics open-	Products (AGPs) toward Collagen - A	
	Reaction-Transport	Lignin Precipitation on a Spinning Disc,"	the CO ₂ Methanation Reaction,"	source framework for catalytic reactors,"	Connective Tissue Aging Process,"	
	Phenomena in Brønsted	Kamelia Boodhoo (335)		Guy B Marin Geraldine I Heynderickx		
	Acidic Zeolites to Develop			Kevin M. Van Geem (21)		
10:21-10:37am	Stable and Selective Olefin	"Olive Mill Wastewater Valorization	"Boosting Gasoline-Range Hydrocarbon	"Hybrid Volume of Fluid and Porous	"Facile Isolation of Cannabinoid Acids	
	Oligomorization Catalysts "	through Steam Reforming using a	Production by Shifting the Equilibrium	Media Simulations of Dynamics of	from Plant Biomass via Ammonium Salt	
	Digomenzation Catalysis,	Sorption-Enhanced Membrane	of CO ₂ , CO Hydrogenation," Onintze	Liquid Spreading and Imbibition in	Formation," Tony Durst , Jay Van der	
	Rajamani Gounder	Luís Miguel Madeira (72)	Andrés Aguavo, Ainara Ateka (54)	Vivek V Buwa (278)	viugt (529)	
10:37-10:53am	"C ₄ , C ₅ -Alkane Dehydrogenation	Modeling Membrane Reactors for CO ₂	Development of Silicalite-1-	Simulations of Suspensions Containing	"Production of Cellulose by a Novel Bacterial Strain Isolate " Chandra	
	Sulfide Catalyst," Ryo Watanabe ,	Patrascu (518)	Methanol Synthesis by CO_2	Arbitrarily Shaped Particles," Martin	Panchal (541)	
	Hiroshi Akama, Priyanka Verma, Choji		Hydrogenation," Ryokuto Kanomata,	Kotouc Sourek, Ondrej Studenik,		
	Fukuhara, (490)		Kouki Awano, Hiroyasu Fujitsuka,	Martin Isoz, Petr Koci, Andrew York		
			Kentarou Kimura, Raquel Simancas,	(294)		
			Toru Wakibara, Toshiyuki Yokoi			
			Teruoki Tago (489)			
10:53-11:09am	"Bifunctional Materials Incorporating	"Membrane Reactor and Crystallization-	"Alcohol Synthesis in a High-Pressure	"A Combined CFD-CPFD Modeling	"Optimization Strategy for	
	Carbon Microspheres for Intensified	based Process Intensification Strategy	Membrane Contactor Reactor Using	Approach for Characterizing Internal	Pharmaceutical Business," Ashok	
	Glycerol Steam Reforming," Antoine	for Para-Xylene Recovery," Nitish	Waste CO ₂ Feeds," Jingwen Gong,	Recycle Berty Catalytic Reactors,"	Bhaseen (338)	
	Olivier, Maria-Cornelia Iliuta, (477)	Mittal, Jingjun Liu, JR Johnson, Banjamin McCool, Brodromos	Mohammad Bazmi, Linghao Zhao,	Shekhar R. Kulkarni, Mengmeng Cui,		
		Daoutidis Michael Tsapatsis (528)	Kristian Jessen Theodore Tsotsis	Lennart Jan-Weber Anton Nagy Pedro		
			Vasilios Manousiouthakis (513)	Castano (135)		
11:09-11:25am	"Highly Selective Iron Oxide Sites for	"High Temperature Bubble Column	"CO ₂ Direct Hydrogenation to Lower	Keynote, "Chemical Reaction	"Polyphenol from Maritime Pine Bark	
	CO ₂ Valorization in Tandem with On-	Reactors for Alkane Dehydrogenation:	Hydrocarbons over K-Fe/γ-Al2O3	Engineering Tools for Battery	(MPB) Extract: Protective Effect on	
	purpose Ethylene Production,"	Combining Reaction and Separation,"	Synthesized by Reverse Microemulsion	Production and Optimization,"	Collagen Structural Integrity," Jean-	
	Stavros Theofanidis, Allessandro	Chester Upham (250)	Method," Yue Yu, Aiping Yu, David	Danielle Marchisio (559)	Yves Leroux, Robert Houde (445)	
	de Clermont Gallerande, Christoph					
	Sahle, Angeliki Lemonidou, (371)					
11:25-11:41am	"Atomically Thin Platinum Nanolayers	"CO ₂ Capture by Mechanical Separation	"Novel Kinetic Model for Combined CO		"Reduction of Methane Gas Production	
	on MXene for Catalytic Non-oxidative	Using a Spinning Disc Separator (SDS),"	and CO ₂ Methanation Using Spatially		from Cattle," Domenico Fuoco, Patrice	
	Coupling of Methane," Yang Xiao,	Luis D. Virla, Andrew McGovern, Saeed	Resolved Measurements," Varun		Kieffer, Daniel Quirion (530)	
	Zite LI, Toblas Misicko, Jeff Miller, Yue	Kanbarimanesn, Joshua Brinkernoff (510)	Jan Konyscinski (379)			
11 11 1 10		(510)				
11:41am-1:10pm			Lunch on Own			

	ISCRE 27 Program Schedule				
			Monday, June 12		
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency
	Session 6	Session 7	Session 8	Session 9	Session 10
	Catalytic Reaction	Process Intensification 2	CO ₂ Capture, Conversion	Fluidization and	Multiphase Reactor Engineering
	Engineering 2		and Valorization 2	Chemical Looping	and Scale-up 1
	Chair: Paul Dauenhauer	Chair: Reyes Mallada	Chair: David Simakov	Chair: Ewa Marek	Chair: Nitish Mittal
	Co-Chair: Raj Gounder	Co-Chair: Saurabh Maduskar		Co-Chair: Jamal Chaouki	Co-Chair: Wayne Brown
1:10-1:26pm	"An Alumina/Y-Zeolite Composite as Support to Minimize Overcracking in	Keynote , "Process Intensification	"Will Vortex Units be the Next Generation of PL Equipment in CO ₂	"Modeling Catalyst Deactivation by Coke in Eluidized Bed Reactors " Robin	"Reactor and Storage Safety: A Thermal Analysis on the Stability of
	Hydrocracking Process," Iratxe Crespo,	Chemical Manufacturing " Dian	Capture?," Yi Ouyang , Geraldine	Lawler, Fan He, Neeraj Sangar, John	Hydroxylamine Solutions," Paolo
	Roberto Palos, David Trueba, Suní	Vlachos (95)	Heynderickx, Kevin Van Geem (43)	Coleman, Bing Du (245)	Mocellin, Gianmaria Pio, Chiara
	Rodrígez, Alazne Gutiérrez, Jose María				Vianello, Ernesto Salzano (25)
1.26 1.42pm	Arandez (444)	-	"Thermal Catalysis of CO ₂	"CO ₂ Utilization by Chemical Looping	"Voidage Distribution and Isotropy of
1.20-1.42pm	Enhanced Performance: Propene		Hydrogenation Reaction on a Novel	Super-dry Reforming Maximizing CO	Packed Beds of Non-Spherical Particles
	Conversion to Acrolein and		Bio-Based Catalyst," Farbod Farzi, Ines	Production by Cycle Time	(Trilobes)," Utkarsh Sinha, Prapanch
	Acrylonitrile," Mohammad		Esma Achouri (451)	Optimization," Michiel W.F. Van	Nair, Thorsten Pöschel, Shantanu Roy
	Moniruzzaman, Lars Grabow, Mike Harold Zhuoran Gan William Enling			Cauwelaert, Lukas C. Buelens, Vladimir V. Galvita, Kevin M. Van Geem (178)	(263)
	(463)				
1:42-1:58pm	Invited, "Zeolites as Hosts for	"Physics-informed Neural Network to	"Direct Synthesis of Methyl Acetate via	"Carbide Chemical Looping Reforming -	"A Novel Position Reconstruction
	Single-Site Catalysis," Maricruz	Predict the Kinetics of Biodiesel	Tandem Coupling Strategy from Carbon	- A Novel Process for Hydrogen/Syngas	Algorithm for Particle Tracking Based
	Sanchez-Sanchez (561)	Production in Microwave Reactors,"	Dioxide Hydrogenation," Xu Wang,	Production," Felipe Camacho, Nader	on the Finite Element Method (FEM),"
		Bruno Blais (153)	Jong Wook Bae (347)	Mannipey (230)	Daigneault, Amishga Alphonius, Jocelyn
					Doucet, Bruno Blais, Jamal Chouki (467)
1:58-2:14pm	"Molecular Weight Growth Technology	"Process Intensification at the Molecular	"In-situ CO ₂ Capture and Catalytic	"Assessment of the Operability Range	"Intensified Silicon Carbide Heat-
	Development: Isoparaffin Alkylation,"	Level: Plasma-Assisted Ammonia	Methanation Using Ni/alkaline Earth	of Dynamically Structured Gas-Solid	Exchanger Reactor for Exothermic
	Matthew Mettler, Josh Allen, Vinit	Synthesis and Its Catalyst Design,"	Carbonate Dual Function Materials,"	Fluidized Bed Reactors," Davide Cafaro ,	Catalytic Reactions," Michele Scotto di
	Dean, Jihad Dakka (34)	Alablei Fall, Huannao Chen (37)	Ribooga Chang (35)	Kaigiao Wu, Mauro Bracconi, Marc-	Sebastien Elgue (143)
			5 5 7	Olivier Coppens, Matteo Maestri (204)	5
2:14-2:30pm	"Catalytic Fast Pyrolysis on Zeolites:	"Simulation-based Optimization of	"Copper interactions with Zinc Oxide	"Chemical Looping Production of	"Fault Detection of the Tennessee
	Activity and Stability of Different	Simulated Moving Bed Reactor for	and Zirconia in Catalysis for Methanol	Ethylene Oxide from Ethanol in a Multi-	Eastman as a Reaction-Based Process,"
	Anisole Transformation." Nathan	of Triacetin using Glycerol." Mohd	Fulham, Ewa Marek (61)	Marek (356)	Mostoufi, Rahmat Sotoudeh-
	Pichot, Ludovic Pinard, Anthony	Nadeem, Sanjay Mahajani, Rahu Nabar		()	Gharebagh, Jamal Chaouki (24)
	Dufour, Yannick Pouilloux (285)	(274)			
2:30-2:46pm	"Cracking of Light Cycle Oil into BTX	"A Sonochemical Reactor Utilizing a	"Catalytic Hydrogenations of CO ₂ to	Keynote, "Chemical Looping	"Influence of Active Particle Size and
	over Bifunctional CoMo Catalysts	Cylindrically-Focused Acoustic Wavefield for Improved Sopochemical	Methanol Enabled by the Metal-Lewis	Applications Beyond Energy",	Support Acidity of Bi-functional Catalysts on the Product Distribution of
	Zeolite," Akshata V. Ramteke , Divesh	Efficiency," Cherie Wong, Adam	Frameworks UIO-66," Huy Nguyen ,	Stuart Scott (557)	Fischer-Tropsch Synthesis," Kerstin
	Bhatia, Kamal K. Pant (266)	Sedgwick, Lillian Usadi, Jason Raymond,	Jingyun Ye, Donald Truhlar, Johannes		Wein, Göran Baade, Robert Güttel (179)
		Ronald Roy, James Kwan (66)	Lercher, Matthew Neurock (203)		
2:46-3:02pm	"Oxidation of Methane on Mono- and	Phanadigm Change through	"HKUST Plasma Reduction Strategy for		"Enhanced CO ₂ -Free Hydrogen
	over Zeolite-Y." Balashanmugam Venu	Intensification for Oil Sands Produced	Zou, Ting Oiu, Ying Zheng (392)		by Plasma Cracking by Applying
	Gopal, Niket S. Kaisare, Parasuraman	Water Treatment," Deepak Kirpalani ,	······································		Perovskite Catalysts," Sang-Chul Jung,
	Selvam (403)	Rija Ansari (374)			Kyong-Hwan Chung (253)
3:02-3:20pm		Break	: Coffee and Refreshments (Grande	Place)	

	ISCRE 27 Program Schedule					
	Monday, June 12					
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency	
	Session 11 Catalytic Reaction Engineering 3	Session 12 Process Intensification 3	Session 13 CO ₂ Capture, Conversion and Valorization 3	Session 14 Process Electrification	Session 15 Pharmaceutical and Biological Reaction Engineering 2	
	Chair: Cathy Chin Co-Chair: Matthew Mettler	Chair: Luis Ricardez-Sandoval Co-Chair: Dalma Schieppati	Chair: Serge Kaliaguine Co-Chair: Jeremy Bedard	Chair: Guy Marin Co-Chair: Bryan Patel	Chair: Domenico Fuoco	
3:20-3:36pm	"The Ammonia Synthesis Catalyst Applied to Green Ammonia: A Detailed Study on the Operative Conditions," Cristina Pizzolitto, Alberto Biasi, Matteo Guiotto, Pierdomenico Biasi (531)	"A Packed Bed Reactor Network Model for Biomass-fueled Chemical Looping Combustion," Kayden Toffolo, Sarah Meunier, Luis Ricardez-Sandoval (475)	"Numerical and Experimental Investigation of Syngas Production from CO ₂ by Reverse Water Gas Shift in a Thermally-Coupled Packed-Bed Reactor," Guanjie Sun , David Simakov (159)	"Microwave Heating in Chemical Reactors: Challenges and Opportunities for Efficient and Sustainable Energy Supply," Reyes Mallada , José Luis Hueso, Jesús Santamaría (447)	Keynote, "The Tumor as a Chemical Reactor", Jesus Santamaria (457)	
3:36-3:52pm	"Novel Synthesis of Catalytic Active Sites in Flow for On-Demand Hydrogen Production from Ammonia," Joseph El- Kadi , Laura Torrente-Murciano (522)	"Intensification of Non-edible Vegetable Oil Epoxidation by Continuous Operation," Tommaso Cogliano , Vincenzo Russo, Kari Eränen, Riccardo Tesser, Tapio Salmi (83)	"Calcium Looping Coupled with in-situ Conversion of Captured CO ₂ via Dry Reforming for Syngas Production," Theodoros Papalas, Dimitrios Lypiridis, Andy Antzaras , Angeliki Lemonidou (415)	"Experimental and Numerical Investigation of Methane Steam Reforming with Joule Heated Foams," Matteo Ambrosetti , Lei Zheng, Francesca Zaio, Alessandra Beretta, Gianpiero Groppi, Enrico Tronconi (399)		
3:52-4:08pm	"Water-assisted Sonochemically- induced Demethylenation of Benzyl Alcohol to Phenol over a Structurally Stable Cupric Oxide," Shang Jiang , Tesser Bahry, Umesh Jonnalagadda, Wen Liu, Benoit Teychene, Francois Jerome, Prince N. Amaniampong, Samir H. Mushrif (386)	Keynote , "Nature-Inspired Engineering: Exploiting Thin Film Flow Processing for Chemical and Bioprocess Intensification," Kamelia Boodhoo (334)	"Synergy of Platinum Nanoparticles Supported on Zirconia and the Role of Sodium Promoter in the Catalysis of H2 Production and CO ₂ Conversion Reactions," Grant Seuser, Michela Martinelli, Elijah Garcia, Gabriel Upton, Martin Ayala, Jesus Villarreal, Zahra Rajabi, Donald Cronauer, A. Jeremy Kropf, Gary Jacobs (270)	"Decarbonizing Dry Reforming of Methane Using Rapid Pulse Joule Heating," Kewei Yu , Cong Wang, Weiqing Zheng, Dionisios Vlachos (13)	"Evaluation of Continuous Gas Dissolution Technology," Faiz Mahdi , Thomas Chamberlain, Andrew Karras, Joshua Trenchard, Gary Eccleson, Steve Pollington, Frans Muller (433)	
4:08-4:24pm	"Multicavity CuO Nanostructures for Sonocatalytic Glucose Oxidation," Zhangyue Xie , Umesh Jonnalagadda, Roong Jien Wong, Syed Saqline, Prince Amaniampong, Sabine Valange, James Kwan, Wen Liu (133)		"A Membrane Reactor (MR) / Adsorptive Reactor (AR) Process for Hydrogen Production and Simultaneous CO ₂ Capture in the Context of Power Generation," Linghao Zhao, Isobelye Somiari, Nicholas Margull, Mingyuan Cao, Doug Parsley, Paul K.T. Liu, Vasilios I. Manousiouthakis, Theodore T. Tsotsis (516)	"Direct HCN Synthesis via Plasma- Assisted Conversion of Methane and Nitrogen," Nefeli S. Kamarinopoulou , Dionisios G. Vlachos (49)	"At-line Monitoring of Diphenhydramine Synthesis via Low- Field NMR Spectroscopy as Process Analytical Technology," Jakub Konkol , Ravendra Singh, Frenando Muzzio, George Tsilomelekis (380)	
4:24-4:40pm	Keynote , "Selective Catalytic Dehydration of Alcohols to Olefins: Processes and Impact on Catalysts," Jean-Luc Dubois (556)	"An Efficient Catalytic Plate Reactor for Endothermic Dehydrogenation of Liquid Energy Carriers," Phillip Nathrath , Benjamin Baier, Yousuf Raed Ramzi, Jannis Mueller-Ebhardt, Peter Wasserscheid, Eike Huebner, Patrick Schuehle (77)	"Dry Reforming of Steelworks Off-Gases in a Pilot Plant Integrated into a Steel Mill: A Study on the Influence of Operating Parameters," Philipp Blanck , Olaf Deutschmann, Benjamin Kanz, Gilles Kass, Klaus-Peter Kinzel (140)	"Electrified Modular Reactors for Net Carbon Zero: Design and Performance Evaluation," Ram Ratnakar , Vemuri Balakotaiah (174)	"Solid State Reactive Mixing - Novel Drug and Nutrient Delivery Platform," Dmitri Boudovitch (500)	
4:40-4:56pm		"Modeling and Simulation of Macro- and Micro-scale Hot Spots in Microwave Heating Systems," Kazem Adavi , Jaber Shabanian, Mohammad Latifi, Mohammad Khajouei, Jamal Chaouki (248)	"Assessing Zeolite Activity and Stability for the Direct CO ₂ to Olefins Process," Ander Portillo , Onintze Parra, Andrés Tomás Aguayo, Javier Ereña, Ainara Ateka (55)	"Thermally and Electrically Conductive Internals for the Intensification of Catalytic NH ₃ Cracking," Federico Sascha Franchi , Nicola Usberti, Matteo Ambrosetti, Alessandra Beretta, Gianpiero Groppi, Robert W. Gallen, Enrico Tronconi (313)	"Intensified Batch to Continuous Conversion of Highly Exothermic and Non-Ideal Multiphase Pharmaceutical Systems," Fatou B. Diop , Ashli Silvera, Gabriela Chong, Andrew Teixeira (517)	
5:00-7:00pm		Poster Session	1 (with Refreshments) – Sponsored	by ExxonMobil		
7:00-10:00pm			Dinner on Own			
			Billio Ol OWI			

	ISCRE 27 Program Schedule Tuesday, June 13						
	Palais & Kent						
8:00-8:10am	Introductory Remarks and Symposiu	m Announcements					
8:10-8:55am	Symposium Plenary: Kevin Van Gee	m (Ghent University) – Sponsored by S	ABIC				
8:55-9:40am	Symposium Plenary: Jesper Nerlov ((Chief Technology Officer, Topsoe)					
9:40-10:10am	Break: Coffee and Refreshments (Grande Place)						
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency		
	Session 16	Session 17	Session 18	Session 19	Session 20		
	Reaction Kinetics and Kinetic Modeling 1	Process Intensification 4	CO ₂ Capture, Conversion and Valorization 4	Modeling Strategies in Reaction Engineering 1	Biomass Conversion and Bioprocesses 1		
	Chair: Udit Gupta	Chair: Kevin Smith	Chair: Serge Kaliaguine	Chair: Matt Neurock	Chair: Jostein Gabrielsen		
	Co-Chair: Ashish Mhadeshwar	Co-Chair: Reyes Mallada	Co-Chair: Ying Zheng	Co-Chair: Linda Broadbelt	Co-Chair: Rasmus Egeberg		
10:10-10:26am	"Catalytic Total Oxidation of Methane	Keynote, "Nature-Inspired Process	"Converting CO ₂ and H ₂ O into Fischer-	"The New Active Learning Framework	"Kinetic Modeling and Optimization of		
	Towards a Better Understanding of the	Intensification: A Systematic	Tropsch Products - A Techno-Economic	GandALF: A Plastic Waste Catalytic	Hemicellulose-Derived Saccharide		
	Influence of the Support Material."	Methodology to Innovate Catalysis	Hammerschmid. Stefan Müller. Franz	Yannick Ureel, Maarten R. Dobbelaere.	Miha Grilc (218)		
	Kevin Keller, Rinu Chacko, Patrick Lott,	and Reaction Engineering", Marc-	Winter (14)	Oguzhan Akin, Robin J. Varghese, Kevin			
	Olaf Deutschmann (427)	Olivier Coppens (523)		M. Van Geem (7)			
10:26-10:42am	"Which Reaction Pathways Govern the		"Innovative Chemical Reaction System	"High-Throughput Models for	"Selective Catalytic Hydrogenation of 5-		
	Decomposition of Sulfur-Containing		Contributing to Reduce and Utilize	Thermochemical Conversion of Biomass	Hydroxymethylfurfural to Value-Added		
	and Waste Resources?." Jeroen		Fukuhara, Hiroshi Akama, Hiroto Naiki,	Racha, Himanshu Goval (145)	Blaz Likozar (12)		
	Aerssens, Cato A. R. Pappijn, Ruben		Priyanka Verma, Ryo Watanabe (395)				
	Van de Vijver, Marie-Françoise Reyniers,						
	Kevin M. Van Geem (191)						
10:42-10:58am	"Mechanistic Insights into Calcite	"Conductive Cellular Internals for the	"A Multifunctional Reactor for the	"Data-Driven Surrogate Modelling to	"Effect Size of Temperature and Potential for Electrochemical Lignin		
	Exchange and Desorption Experiments."	Synthesis in Tubular Reactors: A Pilot	Andrarde Martins, Carlos Vasconcelos	Nausheen Basha (225)	Upgrading to Valuable Products."		
	Athanasios Skaltsogiannis, Angeliki	Study," Martino Panzeri, Carlo Giorgio	Miguel, Alírio Egídio Rodrigues, Luis		Andrew Carkner, Jan Kopyscinski, Ali		
	Lemonidou (370)	Visconti, Gianpiero Groppi, Enrico	Miguel Madeira (132)		Seifitokaldani (459)		
		Tronconi (325)					
10:58-11:14am	"Acid Site Density as a Kinetic Descriptor of Reactions over Solid	"An Ultrasonic Microreactor for the Synthesis of Nanoparticles via Mini	Keynote, "The Role of Chemical	"Optimal Control of Start-up and	"Unveiling the Effect of Temperature,		
	Acids " Dmitry Murzin (152)	Emulsion Polymerization " Aniket	Engineering in Carbon	Unstable CSTRs " Jaber Darabi Jane	One-Pot Hydrodeoxygenation of		
	, (alos) (toz)	Udepurkar, Christian Clasen, Simon	Management", Claude	Shi, Nima Nikbin, Carlos Vila (340)	Bioglycerol to Sustainable Propylene,"		
		Kuhn (6)	Letourneau (562)		Meryem Bahlouri, Mohamed El		
					Doukkali, Svetlana Heyte, Joelle Thuriot-		
					Roukos, Sebastien Paul, Franck		
11.14 11.20 pm	"Novel let-Loop Reactor for	"Intensification of Methane Steam	-	"A Hybrid Modeling Approach for	"High-Gravity Fructose Solvolysis to n-		
11.14-11.50dill	Measurement of Vapor-Phase Catalytic	Reforming with Packed Foams: From		Catalyst Monitoring and Lifetime	Butyl Levulinate," Daniele Di Menno Di		
	Kinetics Using Commercial-Scale Fixed-	Lab-Scale to Pilot Design," Giulia Ferri,		Prediction," Linh Bui, Ivan Castillo,	Bucchianico, Jean-Christophe Buvat,		
	Bed Particles," Anuradha Nagaraj,	Francesca Zaio, Matteo Ambrosetti,		Brigid Braun, You Peng, Mark Joswiak,	Valeria Casson Moreno, Sebastien		
	Patrick Mills (525)	Alessandra Beretta, Gianpiero Groppi,		Ailene Phillips, Jin Yang, Justin Rose,	Leveneur (90)		
11,20,000 1,00,000							
11:30am-1:00pm			Lunch on Own				

	ISCRE 27 Program Schedule				
	Kent	Deleie	Tuesday, June 13	Bassiment/Bassiment/Balair	Course ille (Montersoner et
	Session 21	Palais Sossion 22	St-Louis	Session 24	Courville/Montmorency
	Catalytic Reaction	Process Intensification 5	Flectrocatalysis and	Multinhase Reactor Engineering	Biomass Conversion
	Engineering 4	ricess intensineation s	Photocatalysis	and Scale-up 2	and Bioprocesses 2
	Chair: Angeliki Lemonidou	Chair: Ines Achouri	Chair: Anthony De Crisci	Chair: Wayne Brown	Chair: Basmus Egeberg
	Co-Chair: Ram Ratnakar	Co-Chair: Jan Kopyscinski	Co-Chair: Mike Harold	Co-Chair: Nitish Mittal	Co-Chair: Miha Grilc
1:00-1:16pm	"Continuous-Flow Photocatalytic Coupling over a Series of Heterogeneous and Stable Ni Single- Atom Catalysts," Gianvito Vilé (208)	Invited, "Process Intensification by Model-Based Design and Optimal Operation of Tailor-Made Reactors," Hannsjörg Freund (453)	"Photocatalytic Activity of g-C3N4 Immobilized on Floating Polyurethane Foam," Nila Davari , Mohamed Gar Alalm, Maryam Mokhtarifar, Claudia L. Bianchi, Ermelinda Falletta, Viviane Yargeau, Daria C. Boffito (394)	"A Novel Setup for the Fundamental Kinetic Study of Biomass Pyrolysis," Veronica Piazza, Roberto Batista da Silva JR, Alessio Frassoldati, Luca Lietti, Stefano Carlo Chiaberge, Chiara Gambaro, Andrea Siviero, Tiziano Faravelli, Alessandra Beretta (373)	Keynote , "Reaction Engineering Aspects in the Low-Temperature Transformation of Biomass to Valuable Molecules," Tapio Salmi (93)
1:16-1:32pm	"Catalytic Activity of Novel Red Mud- based Catalysts for Hydrodeoxygenation of Palmitic Acid," Vasu Chaudhury , Kaustubha Mohanty (542)	"Dynamically Operated Fixed Bed Reactors for CO ₂ Methanation: Strategies to Mitigate Catalyst Deactivation," David Kellerman , Moritz Langer, Hannsjörg Freund (180)	"Electrocatalytic Reduction of Peroxydisulfate for Efficient and Selective Oxidation of Alcohols," Mayank Tanwar , Seyyedamirhossein Hosseini, Jordyn Janusz, Andrew Pendergast, Henry White, Matthew Neurock (244)	"Novel Annular Jet Reactor for Converting Hydrocarbons to Olefins and Aromatics with Net-zero Carbon Emissions," Sreekanth Pannala , Vladimir Shtern, Lei Chen, Balamurali Nair, Byeongjin Baek, Zheng Liu, Retheesh VM, Murali Gopalakrishnan, Steve Turner, Istvan Lengyel, Krishnan Sankaranarayanan, Mike Mier, David Robichaud, David West (353)	
1:32-1:48pm	"Synthesis and Preliminary Catalytic Property Assessment of Transition Metal Nanoparticles on Boron Nitride Nanotube Supports," Steven Walker , Ken Bosnick, Ania Sergeenko, Jian Chen, Ruilin Liang, Jennifer Bruce, Benoit Simard, Jan Kopyscinski, Sylvain Coulombe (470)	"Approach to Model Based Reactor Optimization with Packed POCS for a Heterogeneously Catalyzed Extremely Fast Highly Endothermal Reaction," Mira Zallmann , Simon Walter, Ingolf Gummin and Hannsjörg Freund (67)	"New Approach for the Recycling of Spent LFP Battery Cathode Material," Kamyab Amouzegar, François Larouche and George , P Demopoulos (189)	Keynote, "Scaling Complex Systems Using Cold Flow Modeling", Darwin Kiel (566)	"Designing a Bioreactor to Generate Biomolecular Gradients across Hydrogels," Luisa Metzler , Jan Haelssig, Clémence Fauteux-Lefebvre and Jean- Philippe St-Pierre (150)
1:48-2:04pm	"Enhanced Performance of 3D-Printed Catalytic Convertors in Exhaust Emissions Aftertreatment," Aidan Doyle , Callum Davidson (418)	"Optimization of Lattice Supports for Process Intensification in Mass-Transfer Limited Catalytic Reactors," Claudio Ferroni , Matteo Ambrosetti, Mauro Bracconi, Matteo Maestri, Gianpiero Groppi, Hannsjörg Freund and Enrico Tronconi (215)	"Electrocatalytic Reduction for Electrochemical Synthesis," Matthew Neurock , Sagar Udyavara, Sahithi Gorthi, Ashwin Chemburkar, Stewart Winikoff, Byron Peters, Kevin Rodriguez, Solomon Reisberg, Sebastian Beil, David Hickey, Yu Kawamata, Kevin Klunder, Timothy Gorey, Scott Anderson, Shelley Minteer, Phil Baran (234)		"Hydrothermal Liquefaction of Food Waste: Optimization, Kinetics and Pilot- Scale Validation," Giulia Zoppi , Konstantinos Anastasakis and Patrick Biller (175)
2:04-2:20pm	"Evaluating the Roles of Mo and Cu on the Performance of Fe Catalyst Supported on a Renewable Catalyst for Fischer-Tropsch Synthesis," Zahra Teimouri , Ajay K Dalai, Nicolas Abatzoglou (383)	"Multiscale Hierarchical Analysis via Reactive CFD: A Strategy for Designing Intensified Catalytic Reactors," Mauro Bracconi , Claudio Ferroni, Matteo Ambrosetti, Gianpiero Groppi, Matteo Maestri, Enrico Tronconi (193)	"Engineering High Performing Catalysts for Photothermal CO ₂ Reduction to CO, CH ₄ or Methanol," Kristijan Lorber, Petar Djinović (9)	"Evaluating and Comparing the Transport Properties of Several Continuous Stirred Tank Reactors," Victor Sussman , Jing Houser, Austin Smith and Edward Calverley (18)	"On the Nature of Coke Originating from Biomass-derived Oxygenates on Cracking Catalysts and Development of Catalyst Regeneration Model," Elise Farah, Efthymios Kantarelis (216)
2:20-2:36pm	"Reactant Adsorption Modulation by Fe and K in Pt Catalyst for Highly Effective CO Preferential Oxidation in Practical Conditions," Jianlin Cao , Qing Wang, Xiaoqian Zhang, Xiang Feng, Yongxiao Tuo, De Chen (351)	"Synthesis and Characterization of Multifunctional Catalysts for the Dry Reforming of Methane," Hanaa Hassini , Ines Esma Achouri (364)	"Microwave Heating Performance of Silicon Carbide-based Catalysts: Experimental and Numerical Studies," Mohammad Khodabandehloo , Jaber Shabanian, Jean-Philippe Harvey, Jamal Chaouki (240)	"Magnetic Resonance Imaging of Turbulent Gas Flow in Packed Beds of Porous Catalyst Supports," Scott Elgersma , Andrew Sederman, Michael Mantle, Constant Guedon, Gary Wells and Lynn Gladden (92)	"Golden Rules for Uneconomical Sustainable Projects," Mathieu Pominville-Racette , Olivier Rezazgui and Patrice Mangin (206)
2:36-2:55pm		Break	: Coffee and Refreshments (Grande	Place)	1

	ISCRE 27 Program Schedule					
	Tuesday, June 13					
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency	
	Session 26	Session 27	Session 28	Session 29 Modeling Strategies in	Session 30	
	Catalytic Reactions	Process Intensification 6		Reaction Engineering 2	Pyrolysis	
	Chair: Olga Guerrero Perez Co-Chair: Gregory Patience	Chair: Dalma Schieppati Co-Chair: Robin Lawler	Chair: Jean-Luc Dubois Co-Chair: Bob Weber	Chair: Alan Stottlemyer Co-Chair: Jean-Philippe Harvey	Chair: Cedric Briens Co-Chair: James Butler	
2:55-3:11pm	"Rapid Scan FTIR for Uncovering Reaction (Am)Oxidation Mechanisms," M. Olga Guerrero Perez , Alan McCue, James Anderson (20)	"SYNOPSIS – A Software Prototype for Computer-Aided Process Intensification," Shivam Vedant , Moustafa Ali, Navya Pabba, Dustin Kenefake, Efstratios Pistikopoulos, Yuhe Tian (484)	Keynote , "Fundamental Mechanisms and Kinetics of Polymer Pyrolysis for Energy and Chemicals", Paul Dauenhauer (296)	"Modelling for Optimal Operation of Modular Integrated Methane Dehydroaromatization Process," Arun Senthil Sundaramoorthy , Sunkyu Kim, Babatunde A. Ogunnaike, Raul F. Lobo (247)	"On the Fate of Alkylated Aromatics during Pyrolysis and Steam Cracking: An Experimental and Computational Study," Jia Zhang, Ruben Van de Vijver , Florence H. Vermeire, Marie- Françoise Reyniers, Kevin M. Van Geem (195)	
3:11-3:27pm	"Operando Imaging of Product Distribution from Reactor to Pellet Scales during Fischer-Tropsch Synthesis," Qingyuan Zheng , Jack Williams, Leonard van Thiel, Scott Elgersma, Mick Mantle, Andrew Sederman, Timothy Baart, Leendert Bezemer, Constant Guedon, Lynn Gladden (82)	"Optimal Design and Operation of Intensified Packed Towers for Solvent- Based CO2 Capture," Stephen Summits, Debangsu Bhattacharyya (519)		"A Comprehensive Approach for Bottleneck Identification in Trickle Bed Reactors for the Liquid Phase Hydrogenation of Viscouse Aromatic Derivatives on Egg-Shell Catalysts," Hendrik Held, Hannsjörg Freund (78)	"Molecular-level Interplays During Co- Pyrolysis of Cellulose and Thermoplastics," Fuat Sakirler , Mihriye Tekbas, Hsi-Wu Wong (239)	
3:27-3:43pm	Keynote, "Raman Characterization: FAIRness and Relevance", Raquel Portela (567)	"Exploring the Role of Reaction Engineering in the Decarbonization of the Process Industries," Julia Faeth , Ignasi Palou-Rivera (535)	"Depolymerization of Plastics on Twin- Screw Extruder," Yuji Fukuda (388)	"Detailed multi-phase modeling of reactive fouling of a distillation column," Hao-Wei Pang , Xiaorui Dong, Ryan E. Hawtof, William H. Green (551)	"Impact of Vapor Saturation of Oil Pyrolysis in a Fluid Coker," Jie Han , Cedric Briens, Jennifer McMillan (142)	
3:43-3:59pm		"Ethyl Levulinate Ketalization: From Batch to Continuous Operation," Vincenzo Russo, Francesco Taddeo, Rosa Turco, Rosa Vitiello, Riccardo Tesser, Tapio Salmi , Martino Di Serio (115)	"Early Stage Capital Estimation of Chemical Recycling Plants," Jacopo De Tommaso , Federico Galli, Robert Weber, Jean-Luc Dubois, Gregory Patience (211)	"Understanding the Role Perforations on the Void-Scale Hydrodynamics of Gas-Liquid Flows through Structured Packings," Aniket S. Ambekar, E.A.J.F. Peters, Olaf Hinrichsen , Vivek V. Buwa, J.A.M. Kuipers (342)	"Catalytic Pyrolysis of Polypropylene with Zeolites: Maximizing Olefin Yield by Optimizing Acidity, Si/Al-Ratio, and P-Doping," Oğuzhan Akin , Robin John Varghese, Yannick Ureel, Andreas Eschenbacher, Jogchum Oenema, Kevin Van Geem (124)	
3:59-4:15pm	"Investigating the Effect of Branching on Diffusion in Confined Porous Media with Pulsed-Field Gradient NMR," Yeojin Lee , Andy Sederman, Mick Mantle, Lynn Gladden (182)	"Microreactor Technology in Selective Oxidation of Alcohols to Aldehydes," Luca Mastroianni, Antoine Meunier, Kari Eränen, Zuzana Vajglová, Vincenzo Russo, Martino Di Serio, Dmitry Murzin, Tapio Salmi (28)	"Chemical Reaction Engineering Challenges for Advanced Recycling of Plastic Waste at Scale," Saurabh Maduskar , Bryan Patel, Kevin Buettner, Paul Dauenhauer, Sundararajan Uppili (316)	"Intensified CO2 Hydrogenation: Kinetics and Modelling of the Reverse Water-Gas Shift Reaction and Water Adsorption," Alex Desgagnés , Ion Iliuta, Maria-Cornélia Iliuta (192)	Keynote , "Pilot-scale Recycling of End-of-Life Tires via ex-situ Catalytic Pyrolysis", Angelos Lappas (17)	
4:15-4:31pm	"Probing the Diffusion Mechanism of Linear Hydrocarbons in Mesoporous Confinement Using Pulsed-Field Gradient NMR," Jack H. Williams , Qingyuan Zheng, Mick D. Mantle, Lynn F. Gladden, Andrew J. Sederman (45)	"Asphaltenes De-clustering behind Viscosity Reduction in Heavy Fuel Oils undergoing Ultrasonically-induced Cavitation," Varaha P Sarvothaman , Elia Colleoni, Gianmaria Viciconte, Chiara Canciani, Saumitra Saxena, Paolo Giada, William Roberts (282)	"Modeling Polymer Pyrolysis via the Method of Moments," Pratyush Agarwal , David Tremblay (511)	"Key Aspects to Maintain Efficient Steam Reforming Operation during Catalyst Life," Monica Zanfir , Chinmay Satam, Ziwei Wang (41)		
4:30-6:30pm			Poster Session 2 (with Refreshments			
7.15 10.2000		Sumpoium Da	(Grande Place)	(Palais & Kont)		
Symposium Reception (Grand Place) and Banquet (Palais & Kent) Amundson Award Presentation (Sponsored by ExxonMobil) and Speech, Klavs Jensen ISCRE 28 Announcement						

ISCRE 27 Program Schedule Wednesday, June 14

Palais & Kent

8:30-8:45am Introductory Remarks and Poster Award Announcements Symposium Plenary: Theodore Betley (Harvard University) 8:45-9:30am

9:30-9:50am	Break: Coffee and Refreshments (Grande Place)					
	Kent	Palais	St-Louis	Beauport/Beaumont/Belair	Courville/Montmorency	
	Session 31	Session 32	Session 33	Session 34	Session 35	
	Reaction Kinetics and	Hydrogen Production	Polymer Upcycling 2	Multiphase Reactor Engineering	Modeling Strategies in	
	Kinetic Modeling 2			and Scale-up 3	Reaction Engineering 3	
	Chair: Jaber Darabi	Chair: Federico Galli	Chair: Bob Weber	Chair: Victor Sussman	Chair: Linh Bui	
	Co-Chair: Udit Gupta	Co-Chair: Saurabh Maduskar	Co-Chair: Olga Chub	Co-Chair: Nicolas Abatzoglou	Co-Chair: Alan Stottlemyer	
9:50-10:06am	"Unraveling the Pyrolysis and Oxidation	Keynote, "Development of	"Plastic Waste Upgrade to Olefins via	"Slurry Phase Hydroconversion: Gas	"Modelling of the Coupling Between	
	of Trimethoxymethane E-Fuel: a	Electrically Heated Reactor: the	Mild Slurry Microwave Pyrolysis over	Environment and Solvent Effects," Todd	Acid Reactive Extraction and Calcium	
	Combined Experimental and Kinetic	Case of Steam Methane	Solid Acids," Esun Selvam, Pavel Kots,	Pugsley, Mark Fleming, Kevin Smith	Carbonate Precipitation for the	
	Modeling Study," Kevin De Ras, Gilles	Reforming", Gianluca Pauletto	Borja Hernandez, Abhinav Malhotra,	(555)	Valorisation of a Mining Industry	
	Dossche, Marwa Saab, Anas Jamil, Yann	(563)	Weiqi Chen, Jose Catala-Civera, Jesus		Effluent," Thomas Neron, Anne-Marie	
	Fenard, Robin Varghese, Joris Thybaut,		Santamaria, Marianthi lerapetritou,		Billet, Carine Julcour (141)	
10.00 10.00	Guillaume Vanhove, Kevin Van Geem (5)		Dionisios Viacnos (56)	"I lish Order CED DEM for the	"Investigation I hadronen aveign of	
10:06-10:22am	Modeling - Paving the Way to a Green		in a Microwave Reactor " Fatemen	Prediction of Solid-Fluid Flows in	Lignin: A Composition and Reaction	
	Epoxy Resin " Matthias Feigel Jonas		Vatankhah Mohammad Latifi Jamal	Chemical Reactors " Bruno Blais Toni Fl	Modeling Approach " Maria Lopez	
	Breitsameter, Bernhard Rieger, Olaf		Chaouki (155)	Getaini Nehme, Victora Oliveira Ferreira,	Abelairas, Luis P. de Oliveira, Nadège	
	Hinrichsen (317)			Audrey Collard-Daigneault (249)	Charon, Jan J. Verstraete (265)	
10:22-10:38am	"Dual site RHC+OHC Transient Kinetics	"Spherical Catalyst Supports with and	"Upcycling of Waste Plastics using	"Fischer-Tropsch Synthesis over a	"High Temperature Combustion	
	on Cu-CHA: Prediction of the Low-T	without Internal Voids for Steam	Unique Microwave Technology in a	Sustainable Catalyst in a GLS Slurry	Cracking of Ethane: Ideal Reactor vs.	
	Standard SCR Rates," Nicole Daniela	Methane Reforming," Anthony Dixon ,	Circular Economy," Amir Kerenkan ,	Reactor," Sabrina Bahia Karakache,	Annular Jet Vortex Reactor," Byeongjin	
	Nasello, Nicola Usberti, Umberto	Bhanu Vardhan Reddy Kuncharam,	Jean-Philippe Laviolette (319)	Inés Esma Achouri, Nicolas Abatzoglou	Baek, Istvan Lengyel, Balamurali Nair,	
	Hu, Shaoiun Liu, Isabella Nova, Xiang			(422)	Sreekanth Pannala (366)	
	Gao. Enrico Tronconi (134)				Sieekantin annaia (500)	
10:38-10:54am	"Reaction Kinetics for Oxidative	"In-situ Hydrogen Supply via Aqueous	"Chemical Recycling of Polyurethane:	"Interplay Between Surface Barriers of	"Equilibrium-based Modelling of GHG	
	Coupling of Methane over Platinum	Phase Reforming: A Novel Strategy for	Conversion of Carbamates," Shahab	Guest Molecules and Coke Deposition	Reduction Resulting from Hydrogen	
	Catalyst," Jaspreet Chawla, Sven	Tackling the Economic & Environmental	Zamani Gharaghooshi, Jean-Paul	in Methanol-to-Olefins over ZSM-5	Injection in a MIDREX DRI Process,"	
	Schardt, Patrick Lott, Sofia Angeli,	Sustainability of Aviation Fuels,"	Lange, Sascha Kersten, M. Pilar Ruiz	Zeolites," Yiwei Xie, Hua Li, Mao Ye,	Ugo Mahue, Sophia Roy, Louis	
	Steffen Tischer, Lubow Maier, Olaf	Giuseppe Pipitone , Giulia Zoppi,	(331)	Zhongmin Liu (480)	Fradette, Jean-Philippe Harvey (509)	
10.54 11.10	Deutschmann (40)	Ramaele Pirone, Samir Bensaid (64)	"DMMA Durobucic Uncucling " Christian	"Ovidative Conversion for Methane	"Identifying the Date Determining Step	
10:54-11:10am	Facets Explains the Structure Sensitivity	Efficient Steam Methane Reforming	Roy Bruno de Caumia Daniel	Valorization: Exploiting OCM "	Based on Ab Initio Calculations for the	
	of the CO ₂ Methanation Reaction."	Kinetics, Heat Transfer, and Pilot Plant	Blanchette, Hooshang Pakdel, Gloire	Aleiandro Romero-Limones, Jeroen	Decomposition of Ammonia on Ru- and	
	Matteo Ferri, Raffaele Cheula, Matteo	Studies," Juray De Wilde, Florent	Justesse Adolphe-Mbou (341)	Poissonnier, Yonggang Cheng, Carlos	Co-Based Catalysts," Natalia Realpe,	
	Monai, Bert M. Weckhuysen, Matteo	Minette, Sanjiv Ratan, Zirui He, William		Omar Castillo-Araiza, Joris W. Thybaut	Shekhar Kulkarni, Gontzal Lezcano,	
	Maestri (199)	Blasko, Wolfgang Spieker, Bruce		(101)	Yerrayya Attada, Natalia Morlanes, Jose	
		Boisture (224)			Luis Cerrillo, Sai Katikaneni, Stephen	
					Paglieri, Kunho Lee, Jorge Gascon,	
11.10 11.26 am	"Pronylene Oligomerization Kinetics	"Hydrogen Production through Dry	"Dechlorination of PVC Waste through	"Evaluating Performance of	"Efficient Implementation of Detailed	
11.10-11.20dill	over a sPA Catalyst: Experimental	Reforming of Biogas Reaction on Co-	Hydrothermal Liquefaction " Edoardo	Hydrodynamic Cavitation Device Type	Surface Kinetics by Neural Network	
	Assessment and Kinetic Model	and Ni-Based Materials," Muriel	Tito , Juliano Souza dos Passos, Raffaele	and Scale Using Dosimetry," Varaha P	Representations of the Rate-	
	Construction," Jeroen Poissonnier,	Chaghouri, Carmen Ciotonea,	Pirone, Samir Bensaid, Patrick Biller	Sarvothaman, Janardhanraj Subburaj,	Determining Steps," Felix Antonidas	
	Carlos Alvarado Camacho, Maria	Haingomalala L Tidahy, Fabrice Cazier,	(209)	Shekhar Kulkarni, Aamir Farooq, William	Döppel, Martin Votsmeier (151)	
	Herrero Manzano, Joris Thybaut (44)	Cedric Gennequin, E Abi-Aad (420)		Roberts (123)		
11:26-11:42am	"Study of a Supported Enzymatic	"Tackling the Limits of Steam Reforming	"Hydroformylation as a Pathway to	"Understanding Heat Transfer	"Artificial Intelligence on Hybrid	
	Reactive Distillation: Effect of	of Biorefinery Side Streams,"	Functionalize Plastic Waste Pyrolysis	Mechanisms in a Packed Bed Reactor	Modeling in Fluid Catalytic Cracking,"	
	Intraparticle Mass Transfer," Nicolas	Abdelrahman Mostafa, Irene Rapone,	UII," Maria Herrero Manzano, Jeroen	through Particle-Resolved CFD	Jansen-Acosta Lopez, Cesar Medina	
	Chaussard, Clemence Nikitine, Pascal Fongarland (127)	Aluo Boselli, Malleo Carmelo Romano, Alessandra Beretta, Gianniero Gronni	Poissonnier, Jons W. Inybaut (196)	Simulations, Ankita Kumari, Vivek V. Buwa (279)	reurazam, hugo de Lasa (60)	
		(355)				