

Technical Program

Sunday, June 26

SIMULATIO	NS AND MIXING		
Chair	Otute Akiti		
Co-chair	John Thomas		
18:45 - 19:20	Harry Van Den Akker, Bernal Professor of Fluid Mechanics, Bernal Institute, University of Limerick	On a sound basis for tracking particles in a turbulent flow field (KEYNOTE)	
19:20 - 19:45	Christian Bach , PhD Student, Technical University of Denmark	CFD for determining mixing and mass transfer in a high power	
	Mads O. Albaek, Fermentation Scientist, Novozymes A/S	agitated bioreactor	
	Stuart M. Stocks, Technology Specialist, Novozymes A/S		
	Ulrich Krühne, Associated Professor, Technical University of Denmark		
	Krist V. Gernaey, Professor, Technical University of Denmark		
19:45 - 20:10	Eric Berson, Associate Professor, University of Louisville	Turbulence transition in orbiting	
	Jonathan Thomas	culture dishes	
	Keith Sharp		
	Mostafa Shakeri		
20:10 - 20:35	Mothivel Balaiyya Mummudi Boopathy, Tridigonal Solutions Inc.	Better powder mixing using computational modeling	
	Tukaram Suryawanshi, Tridiagonal Solutions Inc.		
	Aashish Goyal, Tridiagonal Solutions Inc.		
SINGLE PHA	SE MIXING		
Chair	Jose Carlos Lopes		
Co-chair	Gustavo Padron		
20:50 - 21:15	Piero Armenante , Distinguished Professor, New Jersey Institute of Technology - Dept. of Chemical, Biological and Pharmaceutical Engineering	Computational and experimental determination of the hydrodynamics in a stirred unbaffled vessel provided	
	Ji Ma, Ph.D. Student, New Jersey Institute of Technology - Dept. of Chemical, Biological and Pharmaceutical Engineering	with angle-mounted axial impeliers	
21:15 - 21:40	Jerzy Baldyga , Warsaw University of Technology, Faculty of Chemical and Process Engineering	Efficiency of mixing in single phase and two-phase systems	
	Magdalena Jasinska, Dr., Warsaw University of Technology, Faculty of Chemical and Process Engineering		

Monday, June 27

NOVEL TECHNIQUES AND MIXERS		
Chair	Arun Ramachandran	
Co-chair	Clara Gomez	
08:25 - 08:50	Adel Al Taweel, Professor, Dalhousie University	Using inline coagulation/flocculation
	Fouad Azizi, Assoc. Professor, Department of Chemical and Petroleum Engineering, American University of Beirut	to intensify multiphase separation operations
	Susheel Arora, Manager of Operations, Halifax Regional Water Comission	
	Alex Speers, Professor, Dept. Process Engineering and Applied Sciences	
	Tadek Dabros, Senior Scientist, CanmetENERGY Devon AB	
08:50 - 09:15	Ruozhou Hou , Experimental Officer, School of Chemical Engineering and Analytical Science, University of Manchester	An application of electrical resistance tomography to evaluate the Kenics
	Adam Kowalski, Professor, Unilever R&D, Port Sunlight LaboratoryPeter Martin, Senior Lecturer, School of Chemical Engineering and Analytical Science (SCEAS), University of Manchester	static mixer performance
09:15 - 09:40	Kishore Kar, Fellow, The Dow Chemical Company	KHX: mechanically agitated anti-
	Suraj Deshpande, The Dow Chemical Company	fouling shell-and-tube heat
	Richard Cope, Eli Lilly and Company	oxonangoi
	Madan Somasi, DowAgroSciences LLC	
	Quan Yuan, UOP Honeywell Company	
09:40 - 10:05	Mark Leclair, CEO, NanoSpire, Inc.	A revolution in high shear mixing: harnessing directed cavitation reentrant jets
MULTIPHAS	E MIXING	
Chair	Arthur Etchells	
Co-chair	Ulrich Krüne	
10:20 - 10:45	Frederic Augier, Research Engineer, IFP Energies nouvelles	Contribution of bubbles wakes to
	Cecile Plais, Research Engineer, IFP Energies nouvelles	mixing in stirred and unstirred bubble
	Ann Cloupet, Research Engineer, IFP Energies nouvelles	
10:45 - 11:10	Inci Ayranci , Assistant Professor, Middle East Technical University	An unstability in the formation of Pickering emulsions
	Louis Fradette, Associate Professor, Polytechnique Montreal	
11:10 - 11:35	David Brown, Technical Director, BHR Group	The effect of physical properties and clearance on the suspension of solids with axial and mixed flow impellers
11:35 - 12:00	Richard Calabrese , Professor, University of Maryland Derrick I. Ko, PhD Student, University of Maryland	Breakage of Single Droplets in 2-D Inertial Flows

MULTIPHAS	E MIXING		
Chair	Suzanne Kresta		
Co-chair	Frans Visscher		
18:45 - 19:20	William H. Hartt, Engineer, The Procter & Gamble Co	Processing challenges with rapidly evolving rheology multiphase systems (KEYNOTE)	
19:20 - 19:45	Ricardo J. Santos , Research Assistant, Universidade do Porto, Faculdade de Engenharia	Topology of mixing for dissimilar fluids in mesomixers	
	Margarida A. Brito, M.Sc student, Universidade do Porto, Faculdade de Engenharia		
	Nelson D. Gonçalves, Pos-Doc, Universidade do Porto, Faculdade de Engenharia		
	Madalena M. Dias, Professor, Universidade do Porto, Faculdade de Engenharia		
	José Carlos B. Lopes, Professor, Universidade do Porto, Faculdade de Engenharia		
19:45 - 20:10	Argang Kazemzadeh , PhD Student, Department of Chemical Engineering, Ryerson University	A New Perspective in the Evaluation of the Mixing of Biopolymer Solutions	
	Farhad Ein-Mozaffari, Department of Chemical Engineering, Ryerson University	with Different Coaxial Mixers Comprising of Two Dispersing Impellers and a Wall Scraping	
	Ali Lohi, Department of Chemical Engineering, Ryerson University	Anchor	
	Leila Pakzad, Department of Chemical Engineering, Lakehead University		
20:10 - 20:35	Alexandre Al-Haiek, PhD Student, Montreal Polytechnique	Applicability of conventional scale-up	
	Louis Fradette, Associate professor, Montreal Polytechnique	rules to solid-satabilized emulsions (PHD STUDENT)	
SIMULATIO	NS AND MIXING		
Chair	Minye Liu		
Co-chair	Kishore Kar		
20:50 - 21:15	Jakub Bujalski, Principal Engineer, Process R&D and Manufacturing Support CCC, Innovation and R&D, Yara International ASA	CFD simulation and comparison with experimental data of erosion in a three phase stirred tank reactor	
21:15 - 21:40	David Dickey , Consultant, MixTech Inc Ravindra Aglave, Director, Chemical Process, CD-adaptco Ashkan Davlanlou, Application Engineer, DC-adaptco	Using CFD to predict the mixing intensity necessary for process results	
21:40 - 22:05	Thomas Eppinger , DiplIng., CD-adapco Ravindra Aglave, CD-adapco Simon Lo, CD-adapco	Investigating bubble size distribution in fermentation reactors with CFD	
22:05 - 22:30	Jason Giacomelli, Research ENgineer, Philadelphia Mixing Solutions LTD John Thomas, CEO, M-Star Simulations LLC Harry Van Den Akker, Professor of Fluid Mechanics, University of Limerick	On the analysis of turbulence with large eddy simulations	

Tuesday, June 28

SIMULATIONS AND MIXING		
Chair	Jose Roberto Nunhez	
Co-chair	Konstantinos Steiros	
08:00 - 08:25	Andreas Håkansson, Associate Prof., Kristianstad University Dragana Arlov, Dr, Tetra Pak Processing Systems Fredrik Carlsson, Dr, FS Dynamics	Why do emulsification in inline and batch rotor-stator mixers differ? - A CFD approach
	Fradrik Innings Professor Tetra Pak Processing Systems	
08:25 - 08:50	Robert Higbee , Sr. Analytic/Mechanical Design Engineer, Philadelphia Mixing Solutions Ltd.	Periodicity in lattice-Boltzmann CFD simulated rotating impeller cumulative
	Jason Giacomelli, Research Engineer, Philadelphia Mixing Solutions Ltd.	hydraulic force angle versus time plots
08:50 - 09:15	Hua Bai, SABIC Americas Inc	Investigation of ProQuip HiFlow™ mixing impeller in a commercial-scale reactor and comparison of different modeling tools
09:15 - 09:40	Suzanne Kresta, University of Alberta	Alternate ways of modeling mixing in reactive systems: meso-mixing, micro- mixing, and reactive precipitation
	Francesco Maluta, Alexandra Komrakova Department of Chemical and Materials Engineering, University of Alberta	
	Archie Eaglesham, Don Jones Huntsman Polyurethanes	
09:40 - 10:05	John Thomas, President, M-Star Simulations	Time-accurate blending simulations of transitional flow inside stirred tanks
Richard Grenvil Mixing Solution	Richard Grenville, Director of Mixing Technology, Philadelphia Mixing Solutions, Ltd.	
MULTIPHAS	SE MIXING	
Chair	Katsuide Takenaka	
Co-chair	Aaron Strand	-
10:20 - 10:45	Richard Grenville , Director of Mixing Technology, Philadelphia Mixing Solutions Ltd.	Mixing and flocculation of fine particles
	Patrick Spicer, Associate Professor, University of New South Wales	
11:10 - 11:35	Lena Hohl , Technische Universität Berlin, Chair of Chemical & Process Engineering	Analysis of dispersion and coalescence in liquid three phase systems
	Joschka Schulz, Technische Universität Berlin, Chair of Chemical & Process Engineering	
	Susanne Roehl, Technische Universität Berlin, Chair of Chemical & Process Engineering	
	Niklas Paul, Technische Universität Berlin, Chair of Chemical & Process Engineering	
	Matthias Kraume, Technische Universität Berlin, Chair of Chemical & Process Engineering	

11:35 - 12:00	Minye Liu, Dr, The Chemours Company	Mean age distribution in time- dependent multiphase flows
12:00 - 12:25	Richard Long , Professor Emeritus, New Mexico State University	Gas-liquid interfacial area production in a vertical column approaches
	Asem Al Jarrah Al Jarrah	
	Mohmmad Aliedeh	
APPLICATIO	NS AND TROUBLESHOOTING	
Chair	Frederic Augier	
Co-chair	Victor Atiemo-Obeng	
18:45 - 19:20	Charles Dubois , Professor, Ecole Polytechnique Montreal - Chemical Engineering Dept.	An Insider Look At Energetic Materials Formulation and Mixing (KEYNOTE)
19:20 - 19:45	Paul Gilis, Fellow, The Dow Chemical Company	The development and scaling of static
	Jason Moore, Senior Engineer, Dow Chemical	and dynamic mixing systems to dewater Canadian oil sands mine
	Michael Poindexter, Fellow, Dow Chemical	tailings
	Michael Cloeter, Technical Leader, Dow Chemical	
19:45 - 20:10	Moshe Bentolila, Application Manager, VisiMix Ltd.	Improvement of safety characteristics of stirred reactors (SR) VisiMix® approach to inherently safer design of SR
20:10 - 20:35	Thomas Simpson, Chemical Engineering Consultant, DuPont	Good mixing gone bad – life as an industrial mixing consultant
	DER EXTREME CONDITIONS	
Chair	Fouad Azizi	
Co-chair	Hua Bai	
20:50 - 21:15	Federico Alberini , Research Fellow, University of Birmingham	PIV and torque measurements of the blending of complex rheology fluids in a 1L stirred vessel
	Olga Minailova, Dr, Unilever	
	Mark Simmons, Professor, University of Birmingham	
04.45 04.40	Adam Kowalski, Professor, Unilever	
21:15 - 21:40	David Brown, Michael Dawson, BHR Group	Effect of additive viscosity on inline blending in the turbulent flow regime
21:40 - 22:05	Clara Gomez , Engineering Research Scientist, Coanda Research and Development Corporation	Fluid fine tailings flocculation using dynamic mixing
	Barry Bara, Senior Research Scientist, Syncrude Canada Ltd.	
22:05 - 22:30	Gustavo Padron, Senior Technical Consultant, BHR Group	Heterogeneous regime transition in gas-liquid mixing in a stirred tank

Wednesday, June 29

MULTIPHAS	E MIXING		
Chair	Piero Armenante		
Co-chair	Richard Cop		
08:00 - 08:35	Alberto Brucato, Full Professor of Chemical Plant Design, Università degli Studi di Palermo	Mixing in unbaffled stirred vessels (KEYNOTE)	
08:35 - 09:00	Andrzej W. Pacek, Professor, School of Chemical Engineering, University of Birmingham	Oxidations of bark suspensions in a stirred tank reactor	
	Ping Ding, Professor, School of Chemical Engineering, University of Birmingham		
	Mark Garrett, Professor, School of Chemistry and Chemical Engineering, Queens University, Belfast		
	Alvin W. Nienow, Professor, School of Chemical Engineering, University of Birmingham		
09:00 - 09:25	Raj Parthasarathy , Deputy Head, Chemical Engineering, RMIT University	Enhancing solid-liquid mass transfer and impeller power efficiency in a	
	Daniel Stoian, PhD Student, RMIT University	mechanically agitated vessel employing dual impellers	
	Nicky Eshtiaghi, Senior Lecturer, RMIT University		
	Jie Wu, Principal scientist, CSIRO		
09:25 - 09:50	Thomas Wood, EngD Student, University of Birmingham	Slurryability: What makes a powder	
	Mark Simmons, Professor, University of Birmingham	difficult to incorporate into a siurry?	
	Richard Greenwood, Dr, University of Birmingham		
	Hugh Stitt, Professor, Johnson Matthey		
09:50 - 10:15	Ken Primrose, CEO, Industrial Tomography Systems plc	New developments in the application	
	Kent Wei, Research manager, ITS	and batch mixing	
	Changhua Qiu, Principal engineer,		
	Tom Machin, Doctoral student, University of Birmingham		
MULTIPHAS	E MIXING		
Chair	David Dickey		
Co-chair	Inci Ayranc		
10:30 - 10:55	Arun Ramachandran , Assistant Professor, University of Toronto	The effect of a yield stress on the drainage of the thin film between two	
	Sachin Goel, Graduate student, University of Toronto	colliding Newtonian drops	
10:55 - 11:20	Katsuhide Takenaka, Manager, Sumitomo Heavy Industries Process Equipment Co., Ltd	Mass transfer in solid-liquid system with high concentration	
	Hiro Horiguchi, Sr Engineer, Sumitomo Heavy Industries Process Equipment Co., Ltd.		
	Shoji Morinaga, Sr Engineer, Sumitomo Heavy Industries Process Equipment Co., Ltd.		
	Koji Takahashi, Professor, Yamagata University		
	Tomovo Satoh, Student/Ms, Yamagata University		

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11:20 - 11:45	Alehlí Holguín-Salas, PhD student, Instituto de Biotecnología-Universidad Nacional Autónoma de México Enrique Galindo, Instituto de Biotecnología-Universidad Nacional Autónoma de México Gabriel Corkidi, Dr, Instituto de Biotecnología-Universidad Nacional Autónoma de México	Three-phase dispersion in a pilot proto-fermenter containing mycelial biomass: characterization of the local bubble size distribution as a function of the gassed power drawn
11.45 12.10	Arthur Etchells, Rowan University	A correlation for cloud height in colid
11.45 - 12.10	Robert Hesketh Professor, Rowan University	liquid mixing
12.10 - 12.35	Louis Fradette Professor, Polytechnique Montreal	A semi-empirical approach for
	Emir Tsabet, Polytechnique Montreal	predicting the scale-up effect on the mean size of solid-stabilized emulsions
SIMULATIO	NS AND MIXING	
Chair	Richard Grenville	
Co-chair	Harry Van Den Akker	
18:45 - 19:20	Philippe A. Tanguy, Direktor/Corporate Vice President, Total Deutschland GmbH	Polymer kneading technology: an industrial viewpoint (KEYNOTE)
	Xiao Wang, Total S.A.	
19:20 - 19:45	Maxime Pigou, PhD Student, Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés	ADENON: a simulation tool to address mixing issues in bioreactors
	Jérôme Morchain, Assistant Professor, Laboratoire d'Ingénierie des Systèmes Biologiques et des Procédés	
19:45 - 20:10	Bruno Blais , PhD Student, Research Unit for Industrial Flows Processes (URPEI), Department of Chemical Engineering, École Polytechique de Montréal	Understanding Solid-Liquid Mixing Through the Development of a Novel CFD-DEM Model
	Francois Bertrand, Professor, Montreal Polytechnique	
	O. Bertrand, Montreal Polytechnique	
	M. Lassaigne, Montreal Polytechnique	
	L. Fradette, Professor, Montreal Polytechnique	
20:10 - 20:35	Jose Nunhez , Professor, State University of Campinas, UNICAMP, Campinas, Brazil	Investigating the influence of mesh density and some numerical aspects
	R. Jaimes, State University of Campinas, UNICAMP, Campinas, Brazil	of CFD modeling in the prediction of the power number, flow number and heat transfer coefficients for the PBT
	J.L. Gomez, State University of Campinas, UNICAMP, Campinas, Brazil	impeller
	N. Spogis State University of Campinas, UNICAMP, Campinas, Brazil	
	M.B. Machado, Chemical and Materials engineering department, University of Alberta, Edmonton, Canada	
	S.M. Kresta, Chemical and Materials engineering department, University of Alberta, Edmonton, Canada	

SINGLE PHASE MIXING			
Chair	Alvin Nienow		
Co-chair	Luis Sierra		
20:50 - 21:15	Eric Janz , Research and New Product Development Director, Mixing Technologies, National Oilwell Varco	The applicability of the use of open impellers at low Reynolds numbers	
	Robert Strong, Research Engineer, National Oilwell Varco		
	Kevin Myers, Professor, University of Dayton		
21:15 - 21:40	Konstantinos Steiros, Imperial College, London	Theoretical modelling of the steady	
	Paul J K Bruce, Lecturer, Imperial College, London	and transient power number in a stirred tank	
	Oliver R H Buxton, Lecturer, Imperial College, London		
	Christos Vassilicos, Professor, Imperial College, London		
21:40 - 22:05	Justin Walker, The Dow Chemical Company	The effect of viscosity and impeller	
	Suraj Deshpande, The Dow Chemical Company	geometry on stable vortex formation in a stirred tank	
	Kishore Kar, The Dow Chemical Company		
	Jim Pressler, The Dow Chemical Company		
	Wenyu Su, The Dow Chemical Company		

Thursday, June 30

SIMULATIONS AND MIXING Chair Ken Primrose Co-chair Justin Walker 08:00 - 08:35 Jocelyn Doucet, CEO, Pyrowave How mixing is to blame in some process scale-up failures (KEYNOTE) 08:35 - 09:00 Takaaki Yajima, Sumitomo Heavy Industries Process Analysis of mixing using Equipment Co.,Ltd. renormalization molecular dynamics Ryota Hirose, Sumitomo Heavy Industries, Ltd Hiroo Horiguchi, Sumitomo Heavy Industries Process Equipment Co.,Ltd. Keiji Esaki, Sumitomo Heavy Industries Process Equipment Co.,Ltd. Daiji Ichishima, Sumitomo Heavy Industries, Ltd Nariaki Matsumiya, Sumitomo Heavy Industries, Ltd 09:00 - 09:25 Fabian Sewerin, Dipl.-Ing., Imperial College, London A combined LES-PBE-pdf approach with PBE-grid adaptivity for modelling Stelios Rigopoulos, professor, Imperial College, London turbulent mixing and precipitation 09:25 - 09:50 Eric Janz, Research and New Product Development Finite volume vs. lattice Boltzmann in Director, Mixing Technologies, National Oilwell Varco mixing applications Robert Strong, National Oilwell Varco Kevin Mvers. University of Davton Markus Rumpfkeil, University of Dayton NOVEL TECHNIQUES AND MIXERS Chair Mark Leclair Co-chair **Richard Calabrese** 10:05 - 10:30 José Carlos B. Lopes, Professor, Universidade do Porto, Mixing in CIJS: insight into highly Faculdade de Engenharia efficient 2D laminar micro / mesomixers Nelson N. Gonçalves, Pos-Doc, Universidade do Porto, Faculdade de Engenharia Cláudio P. Fonte, Researcher, IFPEn Madalena M. Dias, Professor, Universidade do Porto, Faculdade de Engenharia Ricardo J. Santos. Research Assistant. Universidade do Porto, Faculdade de Engenharia 10:30 - 10:55 Bernd Nienhaus, Group Leader R&D, EKATO Mixing New developments in impeller design Technology for solid-liquid applications Werner Himmelsbach, Vice President R&D, EKATO Mixing Technology 10:55 - 11:20 Alvin Nienow. Emeritus Professor of BiochemicaL Agitation strategies for the culture and Engineering, University of Birmingham detachment of human mesenchymal stem cells (hMSCs) from

		microcarriers in multiple stirred bioreactor platforms
11:20 - 11:45	Kent Wardle , Principal Nuclear Engineer, Argonne National Laboratory, Argonne, Illinois	Multiphase application of 3D printing for liquid-liquid extractor design
11:45 - 12:10	Aaron Strand , Research Engineer, Spxflow Richard Khen, Director – Research and Development, Spxflow	Blending efficiency of linear mixers and rotating agitators at equal power

Poster Presentations

MONDAY, JUNE 27	
Christine Beaulieu PhD Candidate, Polytechnique Montreal, Montréal, Quebec, PhD Candidate, Polytechnique Montreal	Influence of Granular Segregation on Heat Transfer in a Rotary Kiln
Moshe Bentolila , Application Manager , VisiMix Ltd., Israel. And The Hebrew University of Jerusalem	Scale Up Methodology for the Fine Chemical Industry - The Influence of the Mixing in the Process
Jason N. Goldberg, P. Eng., North America Technical Sales Manager - Mixers, Xylem Inc.	Energy-saving mixer pays big dividends
Jorge Ramírez Cruz , PhD student , Universidad Nacional Autónoma de México	Mixing Hydrodynamics in an Unbaffled Stirred Tank Using GPU-Based Large-Eddy Simulations.
Martín Salinas Vázquez, Universidad Nacional Autónoma de México, Instituto de Ingeniería	
Gabriel Ascanio Gasca, Universidad Nacional Autónoma de México, Centro de Ciencias Aplicadas y Desarrollo Tecnológico.	
Konstantinos Stamatopoulos, PhD student , University of Birmingham	Analysis of human colon fluid dynamics by Positron Emission Particle Tracking System (PEPT) and Positron
Hannah K. Batchelor, Senior Lecturer?Dr., University of Birmingham	Emission Tomography (PET) using an in vitro Dynamic Colon Model (DCM)
Prof. Mark J. H. Simmons, Head of School of Chemical Engineering/ Prof.,	
Marcela Věříšová , Ph.D. student, Czech Technical University in Prague, Faculty of Mechanical Engineering, Department of Process Engineering	imilarities between impinging jets and flow in agitated batch induced by axial-flow impellers with draft tube
Martin Dostál, Dr., Czech Technical University in Prague	
Tomáš Jirout, Prof., Czech Technical University in Prague	
Petr VIček , Ing., Czech Technical University in Prague, Faculty of Mechanical Engineering	CFD simulation of flow in a mixing device with a draught tube
Tomáš Jirout, prof., Czech Technical University in Prague, Faculty of Mechanical Engineering	
Bing Wan, Student, Polytechnique Montreal	Phase Inversion of Solid-Stabilized Emulsions
Madhu V. Majji, Ph.D Student, Levich Institute, City College of New York	Flow Transition and Tracer Mixing in Taylor-Coutte Flow of Neutrally Buoyant Fluid-Particle Suspension

TUESDAY, JUNE 28	
Billy Allen, Engineering Advisor, Eli Lilly and Company	"Oxygen Transfer Coefficients by the Dynamic Gassing, Hydrogen Peroxide and Mass Balance Methods at Power Inputs and Superficial Gas Velocities Applicable to Commercial Fermentation Processes"
David Alejandro Arjona Rivera , Resp. Laboratorio de Ingeniería Química, Universidad Autónoma de Yucatán	Effect of Blade Shape on the Dissipated Power of Disk Turbine Impellers: his relation with low-pressure core of the trailing vortices.
David Alejandro Arjona Rivera, student, Universidad Autonoma de Yucatán	
Daniel Angel Mena Romero, Teacher, Universidad Autónoma de Yucatán	
Maria Dalmira Rodriguez Martín, teacher, Universidad Autónoma de Yucatán	
James Cardus, PhD Student, University of Birmingham	Use of reactive plif for the evaluation of micromixing and mixing times in a stirred tank
Cyrus John Uera Espinoza , EngD Student (Research Engineer), University of Birmingham	Emulsification of non-Newtonian Mixtures in a High Shear Mixer
Mark J. H. Simmons, Professor, University of Birmingham	
Federico Alberini, Doctor, University of Birmingham	
Adam J. Kowalski, Professor, Unilever Port Sunlight	
Alehlí Holguín-Salas , PhD stuent, Instituto de Biotecnología-Universidad Nacional Autónoma de México	The behavior of local gas retention and interfacial area in a pilot stirred tank as a function of gassed power drawn
Enrique Galindo, Dr, Instituto de Biotecnología-Universidad Nacional Autónoma de México	and mycelial biomass content
Sang Jin Lee, Analytical Engineer, Philadelphia Mixing Solutions, Ltd.	A study on the effective design methodology of the agitator shaft assembly
Robert W. Higbee, Senior Analytical, Mechanical Design Engineer, Philadelphia Mixing Solutions, Ltd.	
Jason Giacomelli, Research and Development Engineer, Philadelphia Mixing Solutions, Ltd.	
Aaron Strand, Research Engineer, Spxflow	Flow Dependence on Off Bottom Location and Impeller
Ricahrd Khen, Director – Research and Development, Spxflow	Diameter
Nihat Yavuz, North Carolina State University	Mixing of a Non-Newtonian fluid in a stirred tank with a
K.P. Sandeep, North Carolina State University	modified pitched blade impeller
Nasim Hashemi, Ph.D Student, Ryerson University	Experimental investigation of power consumption, mixing
Farhad Ein-Mozaffari, Professor, Ryerson University	time, and bubble behavior in an aerated reactor equipped with a coaxial mixer
Simant R. Upreti, Professor, Ryerson Univesity	
Dae Kun Hwang, Assistant Professor, Ryerson University	

WEDNESDAY, JUNE 29 Adel Al Taweel, Professor, Dalhousie University Development of an Energy-Efficient High-Rate Bioreactor Albahlool Idhbeaa, Ph.D. Candidate, Dalhousie University Amyl Ghanem, Assoc. Professor, Dalhousie University Fouad Azizi, Dr, American University of Beirut Liquid-Phase Mixing in Contactors Equipped with Screen-Type Static Mixers Khaled Abou Hweij, Salur Basbug, PhD Student, Imperial College London DNS Investigation of Mixing in a Strirred Tank with Regular and Fractal Blades George Papadakis, Reader, Imperial College London Christos Vassilicos, Professor, Imperial College London Francesco Maluta, Department of Chemical and Materials The optimization of mechanistic model parameters to Engineering, University of Alberta predict undesired reactive precipitation of by-products Alexandra Komrakova, Department of Mechanical Engineering, University of Alberta Archie Eaglesham, Huntsman Polyurethanes Don Jones, Huntsman Polyurethanes Suzanne Kresta, Department of Chemical and Materials Engineering, University of Alberta Fatemeh Safari, University of Alberta Effect of mixing energy on the transient drop size during liquid-liquid drawdown in different tank geometries using Akshay Bhalerao, University of Alberta in-situ FBRM Marcio Bezeera Machado, Research Associate, University of Alberta Alexandra Komrakova, Professor, University of Alberta Suzanne Kresta, Professor, University of Alberta Colin Saraka, Master's Candidate, Department of Chemical Uncovering Dynamics of Mesomixing in the Feed Plume and Materials Engineering, University of Alberta for Froth Dewatering Using In-Situ FBRM and PVM Márcio Machado, Department of Chemical and Materials Engineering, University of Alberta Samson Ng, Syncrude Canada Ltd. Sujit Bhattacharya, Syncrude Canada Ltd. Suzanne Kresta, Principal Investigator, Department of Chemical and Materials Engineering, University of Alberta Adriana Gaona, PhD Student, University of Toronto Evaluating the Mixing Performance of High-Solids Lignocellulosic Enzymatic Petr VIček, Ing., Czech Technical University in Prague, Large eddy simulation of homogenization process in a pitched blade impeller mixed vessel Faculty of Mechanical Engineering Tomáš Jirout, prof., Czech Technical University in Prague, Faculty of Mechanical Engineering Bohuš Kysela, Ing. , Ph.D, Institute of Hydrodynamics, AS CR, v.v.i. Olivier Bertrand, Department of Chemical Engineering, Development of pressure based methods for the École Polytechique de Montréal determination of the just-suspended speed and suspension state in viscous solid-liquid mixing