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	Programming Area	Speaker Name	Speaker Affiliation	Additional Author 1	Additional Author 2	Additional Author 3	Additional Author 4	Additional Author 5	Presentation Title
1	Biomedical and Pharmaceutical Engineering	Mrignayani Kotecha	Department of Bioengineering, University of Illinois at Chicago						MR Tools for the Assessment of Cartilage and Osteochondral Tissue Engineering
2	Biomedical and Pharmaceutical Engineering	Alyssa Panitch	Purdue University	Corey P. Neu, University of Colorado, Boulder	Shaili Sharma, Purdue University	Sarah Calve, Purdue University	Alexandra Lawrence, Biomet		Synthesis and characterization and in vivo efficacy of a Lubricin Mimic to reduce progression of osteoarthritis
3	Biomedical and Pharmaceutical Engineering	Tonglei Li	Purdue University						Development of Drug Nanocrystals for Intravenous Injection
4	Biomedical and Pharmaceutical Engineering	Priyanka A. Oroskar	University of Illinois at Chicago	Dr. Cynthia Jameson, University of Illinois at Chicago	Dr. Sohail Murad, Illinois Institute of Technology				Effect of PEGylated gold nanoparticle permeation on lipid bilayer membranes
5	Biomedical and Pharmaceutical Engineering	Jooyeon Park	University of Illinois at Urbana-Champaign	Min Kyung Lee, University of Illinois at Urbana-Champaign	Xuefeng Wang, University of Illinois at Urbana-Champaign	Mehdi Roein-Peikar, University of Illinois at Urbana-Champaign	Taekjip Ha, University of Illinois at Urbana-Champaign	Hyunjoon Kong, University of Illinois at Urbana-Champaign	Tether strength of cell adhesion ligands modulates biological activities of a cell-laden hydrogel
6	Biomedical and Pharmaceutical Engineering	Tim Whitehead	Michigan State University						High-throughput conformational epitope mapping to guide design of structure-based vaccines
7	Biomedical and Pharmaceutical Engineering	Chengyao Wang	Illinois Institute of Technology	Nancy W. Karuri, Illinois Institute of Technology					Effect of fibronectin on the diffusion and rigidity of the fibrin-fibronectin matrix
8	Biomedical and Pharmaceutical Engineering	Xue Geng	IIT	Jialing Xiang, Department of Biology	Nancy Karuri, Department of Chemical and Biological Engineering				PEGylating fibronectin inhibits tumor growth and invasion in an in vitro model
9	Biomedical and Pharmaceutical Engineering	Milan Mrksich	Northwestern University						Spatio-Temporal Engineering of Biochemical Reaction Networks
10	Biomedical and Pharmaceutical Engineering	Yung-Tin Pan	University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Cartney E. Smith, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Kam Sang Kwok, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Jinrong Chen, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Hyunjoon Kong, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Hong Yang, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Functionalized Flexible Palladium Nanosheets as Patches for HepG2 Cancer Cells

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11	Biomedical and Pharmaceutical Engineering	Nicholas E. Clay	University of Illinois at Urbana-Champaign	Kyeonggon Shin, Purdue University	Min Kyung Lee, University of Illinois at Urbana-Champaign	Bumsoo Han, Purdue University	Hyunjoon Kong, University of Illinois at Urbana-Champaign		Matrix Stiffness and Interstitial Flow Regulate Breast Cancer Malignancy in a Tumor-Microenvironment-on-a-Chip (TMOC) System	
12	Biomedical and Pharmaceutical Engineering	Courtney Collins	University of Cincinnati	Madison Taylor, University of Cincinnati	Sara Haworth, University of Cincinnati	ZhanQuan Shi, University of Cincinnati	Zishu Cao, University of Cincinnati	Yoonjee Park, PhD, University of Cincinnati	Controlled release of drug using image contrast enhancing nanoparticles	
13	Biomedical and Pharmaceutical Engineering	Saurabh Shukla	University of Illinois at Urbana-Champaign	Diwakar Shukla, Assistant Professor, Department of Chemical and Biomolecular Engineering, University of Illinois at Urbana-Champaign					Agrochemical likeliness: Why agrochemicals differ from drugs?	
14	Biomedical and Pharmaceutical Engineering	Zahra Shamsi	University of Illinois at Urbana-Champaign	Diwakar Shukla, Assistant Professor					Drug selectivity mechanism of kinases	
15	Biomedical and Pharmaceutical Engineering	Han Shih	Purdue University	Chien-Chi Lin, Indiana University Purdue University Indianapolis					Photo-click hydrogels prepared from functionalized cyclodextrin and poly(ethylene glycol) for drug delivery and in situ cell encapsulation	
16	Biomedical and Pharmaceutical Engineering	Tanja Greene	Department of Biomedical Engineering, Purdue School of Engineering and Technology, IUPUI	Chien-Chi Lin, Department of Biomedical Engineering, Purdue School of Engineering and Technology, IUPUI					Modular crosslinking of gelatin based thiol-norbornene hydrogels for in vitro 3D culture of hepatocellular carcinoma cells	
17	Biomedical and Pharmaceutical Engineering	Jamie E. Rayahin	University of Illinois at Chicago, College of Pharmacy	Richard A. Gemeinhart; University of Illinois at Chicago, College of Pharmacy					Macrophage Activation and Reprogramming is Dependent on Crosslinking Density of Hyaluronan Hydrogels.	
18	Biomedical and Pharmaceutical Engineering	David Acevedo	Purdue University	Zoltan K. Nagy					Optimization of Batch and Continuous Cooling Crystallization of High Aspect Ratio Crystals under Nucleation, Growth, Dissolution and Breakage for Shape Control	

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19	Biomedical and Pharmaceutical Engineering	Shankali Pradhan	Purdue University	Maitraye Sen, Purdue University	Dr. Ian Gabbott, AstraZeneca	Dr. Gavin Reynolds, AstraZeneca	Prof. Carl Wassgren, Purdue University	Prof. James Litster, Purdue University	Analyzing the Effect of Material Properties on a Twin Screw Wet Granulation Process
20	Biomedical and Pharmaceutical Engineering	Nicholas Karabin	Northwestern University	Dr. Evan Scott; Northwestern University					Development of a photoresponsive scaffold composed of self-assembled nanostructures
21	Biomedical and Pharmaceutical Engineering	Chenlin Lu	Illinois Institute of Technology	Elif S. Bayrak, Illinois Institute of Technology	Mustafa C. Ozturk, Illinois Institute of Technology	Banu Akar, Illinois Institute of Technology	Eric M. Brey, Illinois Institute of Technology	Ali Cinar, Illinois Institute of Technology	Agent-based modeling of scaffold vascularization and bone tissue regeneration using biodegradable polymer/ceramic composite
22	Biomedical and Pharmaceutical Engineering	Haipeng Liu	Wayne State University	Meng Li, Wayne State University	Jingchao Xi, Wayne State University				Engineering Albumin-hitchhiking Vaccines For Type 1 Diabetes
23	Biomedical and Pharmaceutical Engineering	Dylan Nichols	Department of Biomedical Engineering, Illinois Institute of Technology	Melissa Arron, Department of Surgery,University of Chicago	Olga Zaborina, Department of Surgery,University of Chicago	John Alverdy, Department of Surgery,University of Chicago	Fouad Teymour, Department of Chemical and Biological Engineering, Illinois Institute of Technology	Georgia Papavasiliou, Department of Biomedical Engineering, Illinois Institute of Technology	Polyphosphate loaded Nanoparticles for Suppression of Bacterial Collagenase and Intestinal Healing
24	Biomedical and Pharmaceutical Engineering	Daniel A Young	Department of Biomedical Engineering, Illinois Institute of Technology, Chicago, IL, USA	Marja Bittencourt, Department of Biomedical Engineering, Illinois Institute of Technology, Chicago, IL, USA	Luana Dias, Department of Biomedical Engineering, Illinois Institute of Technology, Chicago, IL, USA	Wesley Lo, Department of Biomedical Engineering, Illinois Institute of Technology, Chicago, IL, USA	Fouad Teymour, Department of Chemical and Biological Engineering, Illinois Institute of Technology, Chicago, IL, USA	Georgia Papavasiliou, Department of Biomedical Engineering, Illinois Institute of Technology, Chicago, IL, USA	Development of a Hydrogel Nanoparticle for Sustained Delivery of Angiogenic Peptides
25	Biomedical and Pharmaceutical Engineering	David Acevedo	School of Chemical Engineering, Purdue University	Christopher L. Burcham, Eli Lilly and Company	Daniel J. Jarmer, Eli Lilly and Company	Zoltan K. Nagy, School of Chemical Engineering, Purdue University			Optimization of Batch and Continuous Cooling Crystallization of High Aspect Ratio Crystals under Nucleation, Growth, Dissolution and Breakage for Shape Control
26	Biomedical and Pharmaceutical Engineering	Mariana Moreno	Purdue University	Mariana Moreno	Gintaras V. Reklaitis	Zoltan K. Nagy	Von Wiltman	Isaac E. Mendoza	Estimation of the Breakage and Selection Function in the Roller Compaction Process
27	Biomedical and Pharmaceutical Engineering	Benjamin King	University of Iowa	Jennifer Fiegel					THE ROLE OF NATURAL FLUIDS IN STUDIES OF IN VITRO PULMONARY DRUG DELIVERY

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28	Biomedical and Pharmaceutical Engineering	Shachi Mittal	Department of Bioengineering, University of Illinois at Urbana-Champaign, Urbana, Illinois, 61801, United States of America	Rohit Bhargava, Department of Chemistry, Mechanical Science and Engineering, Chemical and Biomolecular					High definition (HD) Fourier Transform Infrared (FT-IR) imaging for rapid tissue analysis
29	Biomedical and Pharmaceutical Engineering	Brittany Hartwell	The University of Kansas	Heather Shinogle, The University of Kansas	Bradley Sullivan, The University of Kansas	Laura Northrup, The University of Kansas	Cory Berkland, The University of Kansas		Multivalent Nanomaterial Arrays Leverage Antigen Specificity to Modulate Immune Response in Autoimmune Disease
30	Biomedical and Pharmaceutical Engineering	Eunkyung Ko	University of Illinois at Urbana-Champaign	Seung-Jung Yu, Department of Chemical and Biomolecular Engineering and KI for Nanocentury, Korea Advanced Institute of Science and Technology	Sung Gap Im, Department of Chemical and Biomolecular Engineering and KI for Nanocentury, Korea Advanced Institute of Science and Technology	Hyunjoon Kong, Department of Chemical and Biomolecular Engineering, University of Illinois at Urbana-Champaign			Manipulating Focal Adhesion Formation by Nanotopographical Substrates for Enhanced Myogenic Differentiation of Primary Myoblasts
31	Catalysis and Reaction Engineering	Dimitri Gidaspow	IIT						CFD Fluidized Bed Reactor Design
32	Catalysis and Reaction Engineering	Jaemin Kim	University of Illinois at Urbana-Champaign	Pei-Chieh Shih	Kai-Chieh Tsao	Xi Yin	Hong Yang		High performance OER catalyst of AxByOz oxides
33	Catalysis and Reaction Engineering	Yung-Tin Pan	University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Jianbo Wu, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering	Hong Yang, University of Illinois at Urbana-Champaign Department of Chemical and Biomolecular Engineering				Environmental Transmission Electron Microscopy Study of Composition Redistribution for Pt-Ni Octahedral Electrocatalysts for Reduction of Oxygen
34	Catalysis and Reaction Engineering	Zhenmeng Peng	University of Akron	Sang Youp Hwang, University of Akron	Eric Yurchekfrodl, University of Akron	Changlin Zhang, University of Akron			Low-Temperature Preferential Oxidation of Carbon Monoxide on Pt3Ni Alloy Nanoparticle Catalyst with Engineered Surface

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35	Catalysis and Reaction Engineering	Heather M. Barkholtz	Northern Illinois University	Lina Chong, Argonne National Laboratory	Zachary B. Kaiser, Argonne National Laboratory	Di-Jia Liu, Argonne National Laboratory			Rational Design of Low Cost Electrode Catalysts for Fuel Cell Applications
36	Energy and Sustainability	Emad Ghadirian	Department of Chemical and Biological Engineering, Illinois Institute of Technology, Chicago, IL 60616	Hamid Arastoopour, Department of Chemical and Biological Engineering, Illinois Institute of Technology	Javad Abbasian, Department of Chemical and Biological Engineering, Illinois Institute of Technology				Numerical Modeling of CO2 Desorption Process in a Carbon Capture Unit using the Fluidized Bed Process
37	Energy and Sustainability	Pahola Thathiana Benavides	Argonne National Laboratory	Donald C. Cronauer	Jennifer B. Dunn				The Influence of Catalysts on Biofuel LCA
38	Energy and Sustainability	Jonathan Kucharyson	University of Michigan	Jason Gaudet, University of Michigan	Brian Wyvratt, University of Michigan	Levi Thompson, University of Michigan			Characterization of Electronic and Structural Transitions for V(acac)3- and Ru(acac)3-based Flow Battery Electrolytes Using X-Ray Absorption Spectroscopy
39	Energy and Sustainability	Canan Acar	University of Ontario Institute of Technology	Ibrahim Dincer, University of Ontario Institute of Technology					Experimental Investigation of a Hybrid Photoelectrochemical Hydrogen Production System
40	Energy and Sustainability	David Shonnard	Department of Chemical Engineering, Michigan Technological University Houghton MI 49931	Olumide Winjobi, Department of Chemical Engineering, Michigan Technological University Houghton MI 49931	Wen Zhou, Department of Chemical Engineering, Michigan Technological University Houghton MI 49931	Paul Langford, Department of Chemical Engineering, Michigan Technological University Houghton MI 49931	Ezra Bar Ziv, Department of Mechanical Engineering – Engineering Mechanics, Michigan Technological University, Houghton MI 49931	David Shonnard, Department of Chemical Engineering, Michigan Technological University Houghton MI 49931	Techno-Economic and Environmental Life Cycle Assessments of Hydrocarbon Biofuel from Poplar.
41	Energy and Sustainability	Alexander Dowling	University of Wisconsin-Madison, Department of Chemical and Biological Engineering	Victor Zavala	University of Wisconsin-Madison, Department of Chemical and Biological Engineering				Exploiting Electricity Markets for Better Systems Engineering

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42	Energy and Sustainability	Luis Fabián Fuentes Cortés	Chemical Engineering Department, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México, 58060.	Alexander Dowling. Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States of America, 53706.	Víctor M. Zavala Tejeda. Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States of America, 53706.	José María Ponce Ortega. Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, Wisconsin, United States of America, 53706.			Optimal Design and Control of CCHP Systems for Housing Complexes.
43	Energy and Sustainability	Deniz Hinz	IIT	Dr. Hamid Arastoopour					Four Phase Flow Model for Methane Production from an Unconsolidated Gas Hydrate Reservoir
44	Energy and Sustainability	Siddique Khateeb	AllCell Technologies	Mukund Bhaskar	Said Al-Hallaj				Thermal Energy Storage Device for Space Cooling Applications
45	Energy and Sustainability	Omar Khalil	IIT	Reza Ghodsi , UIC	Bader Jarai	Fouad Teymour			Biocomposites for Algae Production
46	Energy and Sustainability	Pallabi Sen	University of Illinois at Chicago	Kinnar Sen, University of Illinois at Chicago	Dr. Urmila Diwekar, Vishwamitra Research Institute, Center for Uncertain Systems: Tools for Optimization and Management				A Multi-Objective Optimization Approach to Optimal Sensor Location Problem in IGCC Power Plants
47	Energy and Sustainability	Eric M. Lange	Chemical Engineering Department Cleveland State University	Samuel O. Sanya - Chemical Engineering Department Cleveland State University	Uchechukwu N. Obiako - Chemical Engineering Department Cleveland State University	Jade Moten - Chemical Engineering Department Cleveland State University	Stephen A. Reeves - Chemical Engineering Department Cleveland State University	Melissa J. Riedthaler - Chemical Engineering Department Cleveland State University	Catalytic Gasification of Waste Polymers: A Sustainable Waste Management Alternative

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48	Energy and Sustainability	Ignasi Palou-Rivera	LanzaTech, Skokie IL 60077	Robert Handler, Sustainable Futures Institute, Department of Chemical Engineering, Michigan Technological University, Houghton, MI 49931					Greenhouse Gas Emissions of Ethanol Production Via the LanzaTech Process from Biomass Cellulosic and Waste Gas Feedstocks	
49	Energy and Sustainability	Sean J Dee	Exponent	Russell A Ogle, Exponent					Lessons Learned When Evaluating the Feasibility of Emerging Green Technologies	
50	Energy and Sustainability	Daniel J. McClelland	Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, WI, USA	Wen Chen. Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, WI, USA and State Key Laboratory of Clean Energy Utilization, Zhejiang University, Hangzhou, PR China	Ali Azarpira. Department of Biochemistry, DOE Great Lakes Bioenergy Research Center, and Department of Biological Systems Engineering, University of Wisconsin-Madison, Madison, WI, USA	John Ralph. Department of Biochemistry, DOE Great Lakes Bioenergy Research Center, and Department of Biological Systems Engineering, University of Wisconsin-Madison, Madison, WI, USA	Zhongyang Luo. State Key Laboratory of Clean Energy Utilization, Zhejiang University, Hangzhou, PR China	George W. Huber. Department of Chemical and Biological Engineering, University of Wisconsin-Madison, Madison, WI, USA	Low temperature hydrogenation of pyrolytic lignin over Ru/TiO2: 2D HSQC and 13C NMR study of reactants and products	
51	Energy and Sustainability	Suresh Jambunathan	Veolia						Valuing water in Rankine cycle power generation	
52	Energy and Sustainability	Gihan Kwon	Argonne National Laboratory	Hacksung Kim, Northwestern University	, Anil Mane, Argonne National Laboratory	Jonathan D. Emery, Northwestern Unviersity	Alex B. Martinson, Argonne National Laboratory	David M. Tiede, Argonne National Laboratory	The Origin of Electrochemical Activity of Cobalt Oxide Water Oxidation Catalytic Amorphous Thin Film	
53	Environmental Engineering	Gerardo J. Ruiz-Mercado	U.S. Environmental Protection Agency	Raymond L. Smith, U.S. Environmental Protection Agency	Michael A. Gonzalez, U.S. Environmental Protection Agency				Developing and Analyzing Chemical Process Data for Life Cycle Inventories and Sustainability Evaluation	

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54	Environmental Engineering	Daniel Bampoh	Purdue University (ABE, EEE, ESE Programs)	Shweta Singh					Improving Resource Availability for Sustainable Manufacturing: Review and Case Study on Phosphorus	
55	Environmental Engineering	Urmila Diwekar	Vishwamira Research Institute, Crystal Lake, IL	Rajib Mukherjee, Department of Mechanical Engineering, Texas A&M University, College Station, TX	Berhane Gebreslassie, Vishwamitra Research Institute, Crystal Lake, IL				Design of novel polymeric adsorbents for metal ion removal from water using CAMD	
56	Environmental Engineering	Yin Jing	University of Illinois at Chicago	Lun Guo, University of Illinois at Chicago	Brian P. Chaplin, University of Illinois at Chicago				Electrochemical Impedance Spectroscopy Study of Membrane Fouling and Electrochemical Regeneration at a sub-Stoichiometric TiO2 Reactive Electrochemical Membrane	
57	Environmental Engineering	Pralay Gayen	UIC	Brian P. Chaplin, UIC					Selective Electrochemical Detection of Ciprofloxacin with a Porous Nafion/Multi-Walled Carbon Nanotube Composite Film Electrode	
58	Fluid Properties, Fluid Dynamics and Transport Phenomena	Xiaoyu Wang	ChBE, IIT	Dr. Sohail Murad, ChBE, IIT					Molecular Modeling of Isopropanol Dehydration Using Molecular Simulations in the Presence of Contaminants	
59	Fluid Properties, Fluid Dynamics and Transport Phenomena	Sean Dubina	University of Illinois at Chicago	Lewis Wedgewood, University of Illinois at Chicago					Application of Non-uniform Magnetic Fields on Ferrofluid Colloidal Dispersions using an Iterative Constraint Method: A Brownian Dynamics Study	
60	Fluid Properties, Fluid Dynamics and Transport Phenomena	Chenn Zhou	Center for Innovation through Visualization and Simulation, Purdue University Calumet	Bin Wu, Center for Innovation through Visualization and Simulation, Purdue University Calumet	Guangwu Tang, Center for Innovation through Visualization and Simulation, Purdue University Calumet	Armin Silaen, Center for Innovation through Visualization and Simulation, Purdue University Calumet			NUMERICAL SIMULATION OF AN INDUSTRIAL FLUID CATALYTIC CRACKING REGENERATOR	

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61	Fluid Properties, Fluid Dynamics and Transport Phenomena	Shahab Zekriardehani	University of Toledo, Chemical and Environmental Engineering Department	Maria R. Coleman, University of Toledo, Chemical and Environmental Engineering Department	Saleh A. Jabarin, University of Toledo, Chemical and Environmental Engineering Department				The Role of Additives and Orientation on the Gas Transport Properties of Poly (ethylene terephthalate)	
62	Process Engineering and Optimization	Berhane H. Gebreslassie	Vishwamitra Research Institute	Urmila M. Diwekar					Heterogeneous Multi-agent Optimization Framework to Solve Large Scale Process System Engineering Problems	
63	Process Engineering and Optimization	Berhane H. Gebreslassie	Vishwamitra Research Institute	Urmila M. Diwekar	Gaurav Mirlekar	Fernando V. Lima			Design of Dynamic Systems based on Efficient Ant Colony Optimal Control (EACOC) Algorithm: Case Study Chemical Process Control	
64	Process Engineering and Optimization	Urmila Diwekar	Vishwamitra Research Institute						Optimal Control of Batch Distillation with Missing Components	
65	Process Engineering and Optimization	Sudarshan Ganesh	Purdue University	Nathan J Davis, Purdue University	Prof James D Litster, Purdue University				Population Balance Modeling of Mechanical Dispersion of semi-solid binders in High Shear Wet Granulation	
66	Process Engineering and Optimization	Jianyuan Feng	Department of Chemical and Biological Engineering, Illinois Institute of Technology	Kamuran Turksoy, Department of Biomedical Engineering, Illinois Institute of Technology	Sediqeh Samadi,Department of Chemical and Biological Engineering, Illinois Institute of Technology	Iman Hajizadeh, Department of Chemical and Biological Engineering, Illinois Institute of Technology	Mert Sevil, Department of Biomedical Engineering, Illinois Institute of Technology	Ali Cinar, Department of Biomedical Engineering, Illinois Institute of Technology	Hybrid Online Sensor Error Detection and Functional Redundancy for Systems with Time-Varying Parameters	
67	Process Engineering and Optimization	Yachao Dong	University of Wisconsin-Madison	Christos T. Maravelias, University of Wisconsin-Madison	Jose M. Pinto, Praxair, Inc.	Arul Sundaramoorthy, Praxair, Inc.			Mixed-Integer Programming Solution Methods for Inventory Routing Problems	

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68	Process Engineering and Optimization	Iman Hajizadeh	Department of Chemical and Biological Engineering, Illinois Institute of Technology	Kamuran Turksoy, Department of Biomedical Engineering, Illinois Institute of Technology	Sediqeh Samadi, Department of Chemical and Biological Engineering, Illinois Institute of Technology	Jianyuan Feng, Department of Chemical and Biological Engineering, Illinois Institute of Technology	Mert Sevil, Department of Biomedical Engineering, Illinois Institute of Technology	Ali Cinar, Department of Chemical and Biological Engineering, Department of Biomedical Engineering, Illinois Institute of Technology, Illinois Institute of Technology	Real-Time Estimation of Plasma Insulin Concentration Using Glucose Measurements in Patients with Type 1 Diabetes	
69	Process Engineering and Optimization	WenZhao(Tony) Wu	Dept. of Chemical and Biological Engineering, University of Wisconsin - Madison	Carlos A. Henao, Dept. of Chemical and Biological Engineering, University of Wisconsin - Madison	Christos T. Maravelias, Dept. of Chemical and Biological Engineering, University of Wisconsin - Madison				An Efficient Superstructure Generation and Modeling Framework	
70	Process Engineering and Optimization	Sediqeh Samadi	Illinois Institute of technology	Kamuran Turksoy, IIT	Jianyuan Feng,IIT	Iman Hajizadeh,IIT	Mert Sevil,IIT	Ali Cinar, IIT	A Meal Detection and Carbohydrate Estimation Algorithm Based on CGM Data for Use in AP Systems	
71	Process Engineering and Optimization	Nishant	University of Illinois at Chicago	Urmila Diwekar (UIC)					Novel Sampling Technique for High dimensional stochastic optimization problem.	
72	Process Engineering and Optimization	Nishant Dige	UIC	Dr. Urmila Diwekar (UIC)					Novel Sampling Technique for High dimensional stochastic optimization problem.	
73	Process Engineering and Optimization	Jingwei Gan	Illinois Institute of Technology	Satish J. Parulekar, Illinois Institute of Technology	Ali Cinar, Illinois Institute of Technology				Modeling and prediction of mammalian cell culture and antibody production use dual rate model	
74	Process Engineering and Optimization	Raj Venuturumilli	BP	Madhusuden Agrawal	Samir Khanna				CFD based thermal fatigue risk assessment in refinery process lines.	

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75	Process Engineering and Optimization	Raj Venuturumilli	BP	Madhusuden Agrawal, BP	Raj Venuturumilli, BP	Samir Khanna, BP			Computational fluid dynamics for FCC : Opportunities and challenges	
76	Process Engineering and Optimization	Chenn Zhou	Center for Innovation through Visualization and Simulation, Purdue University Calumet	Bin Wu, Center for Innovation through Visualization and Simulation, Purdue University Calumet					NUMERICAL OPTIMIZATION OF GASOLINE STORAGE TANKS VENTILATION	
77	Process Engineering and Optimization	AHMED ALJEHANI	UIC, Chemical Engineering Dept	Dr. Said Al-Hallaj, Chairman/CEO AllCell Technologies & UIC- ChE Adjunct Research Professor	Mr. Siddique Khateeb, AllCell Technologies (R&D)				A simulation model assessing the Integration of a Cold Thermal Energy Storage (TES) into an Air Conditioning System	
78	Process Engineering and Optimization	JIngwei Gan	Illinois Institute of Technology	Satish J. Parulekar, Illinois Institute of Technology	Ali Cinar, Illinois Institute of Technology				Modeling and Prediction of Antibody Production in Mammalian Cell Culture - Dual Rate Approach	
79	Process Engineering and Optimization	Kazem Majdzadeh Ardakani	University of Toledo	Saleh A. Jabarin, University of Toledo					A novel approach to improve the barrier properties of polyethylene terephthalate	
80	Process Safety and Occupational Health	Stephen Garner	Exponent	Brenton Cox, Exponent	Mark Fecke, Exponent				Inherent Hazards related to Gas Turbine and Steam Turbine Systems in Chemical Processes	
81	Process Safety and Occupational Health	Murtaza Gandhi, P.E., CFS	Baker Risk Engineering and Risk Consultants, Inc.,						IMPACT OF CULTURE CHANGE ON MECHANICAL INTEGRITY FOR SIS	
82	Process Safety and Occupational Health	Peter Herena, P.E.,	Baker Risk Engineering and Risk Consultants, Inc.,						LOPA and the Art of Motorcycle Maintenance	

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83	Process Safety and Occupational Health	Jesse Calderon	Baker Risk Engineering and Risk Consultants, Inc.,	Mike Toraason/Baker Risk Engineering and Risk Consultants, Inc.,					Quantitative Risk Assessment Technological Advancements	
84	Process Safety and Occupational Health	Ernesto Gasulla, P.E.	BakerRisk Chicago Office						Performance of Petrochemical Buildings Subject to Fire Hazards	
85	Refining and Petrochemical Engineering	Joseph Montalbano	UOP/Honeywell						Methanol to Olefins (MTO) - Market and Technology Review	
86	Refining and Petrochemical Engineering	Jerry Wilks	CITGO Petroleum						Improving Refinery Unit Start-ups and Shut Downs	
87	Refining and Petrochemical Engineering	Jerry Wilks	CITGO Petroleum Inc.						Extending the Life of a High Tempearture Refinery Reactor	
88	Refining and Petrochemical Engineering	Sudhakar Chakka	UOP / Honeywell	Laura Kadlec, UOP / Honeywell					Hydroprocessing Revamps for Maximum Flexibility and Profitability	
89	Refining and Petrochemical Engineering	Diane Dierking	Johnson Matthey Process Technologies						Maximizing Reliability and Profitability in Hydrogen Plant Designs	
90	Refining and Petrochemical Engineering	Robert Tsai	UOP/Honeywell	Paul Steacy - UOP/Honeywell	Frank (Xin X.) Zhu - UOP/Honeywell				Dividing-Wall Column Screening Guidelines and Applications	
91	Refining and Petrochemical Engineering	Jill R. Jensen	UOP Honeywell	Stanley J. Frey UOP Honeywell	Chad R. Huovie UOP Honeywell				Production of Transportation Fuels by Co-processing Biomass-Derived Pyrolysis Oils in a Petroleum Refinery Fluid Catalytic Cracking Unit	