## Group Presentation/Poster Schedule for AIChE 2017

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| Monday, October 30 | 8:00 AM      | (61a) Overview of CAST Activities and Programming  
Efstratios N. Pistikopoulos, Prodromos Daoutidis                           | MCC, 103C      |
|                    | 8:25 AM      | (61b) Dynamic Modeling and Explicit Model Predictive Control of Absorption of Hydrogen in a LaNi$_5$ Bed  
Gerald S. Ogumerem, Efstratios N. Pistikopoulos, Iordanis Kesisoglou          | MCC, 103D      |
|                    | 12:49 PM     | (170b) Dynamic Modeling and Explicit Model Predictive Control of Absorption of Hydrogen in a LaNi$_5$ Bed  
Gerald S. Ogumerem, Efstratios N. Pistikopoulos, Iordanis Kesisoglou          | MCC, 103D      |
|                    | 1:08 PM      | (209b) Modeling and Simulation – a Key Component in Enabling Process Intensification  
David Sholl, Efstratios N. Pistikopoulos                                         | MCC, 101D      |
|                    | 3:40 PM      | (209b) Modeling and Simulation – a Key Component in Enabling Process Intensification  
David Sholl, Efstratios N. Pistikopoulos                                         | MCC, 101D      |
|                    | 4:05 PM      | (209c) Modeling and Simulation Challenges for Process Intensification  
Efstratios N. Pistikopoulos                                                   | MCC, 101D      |
|                    | 4:05 PM      | (209c) Modeling and Simulation Challenges for Process Intensification  
Efstratios N. Pistikopoulos                                                   | MCC, 101D      |
|                    | 4:30 PM      | (209c) Modeling and Simulation Challenges for Process Intensification  
Efstratios N. Pistikopoulos                                                   | MCC, 101D      |
|                    | 3:15 PM      | (188m) A Multi-Parametric Bi-Level Optimization Strategy for Hierarchical Model Predictive Control  
Styliani Avraamidou, Nikolaos A. Diangelakis, Efstratios N. Pistikopoulos          | MCC, Exhibit  |
|                    | 4:45 PM      | (188w) Data-Driven Modeling and Optimization of an Ethane Steam Cracker  
Burcu Beykal, Onur Onel, Efstratios N. Pistikopoulos                            | Hall B         |
| Tuesday, October 31| 8:00 AM      | (300) Multiscale Systems Engineering I - In Honor of Professor Christodoulos A. Floudas (Invited Talks)                        | MCC, 103C      |
|                    | 10:30 AM     | (300) Multiscale Systems Engineering II - In Honor of Professor Christodoulos A. Floudas (Invited Talks)                        | MCC, 103C      |
|                    | 12:30 PM     | (300) Multiscale Systems Engineering II - In Honor of Professor Christodoulos A. Floudas (Invited Talks)                        | MCC, 103C      |
|                    | 1:21 PM      | (383d) Model Reduction and Approximation for Simultaneous Design, Control, and Scheduling  
Justin Katz, Baris Burnak, Nikolaos A. Diangelakis, Efstratios N. Pistikopoulos | MCC, 103D      |
| Wednesday, November 1| 9:03 AM      | (461d) Derivation of Generalized Affine Decision Rules for Mixed Integer Linear, Quadratic and Nonlinear Adjustable Robust  
Optimization Problems By Multi-Parametric Programming  
Styliani Avraamidou, Chao Ning, Fengqi You, Efstratios N. Pistikopoulos         | MCC, 103E      |
|                    | 9:24 AM      | (625e) Fault Detection and Diagnosis of Continuous Processes Via Non-Linear Support Vector Machine Based Feature Selection  
Melis Onel, Chris A. Kieslich, Yannis A. Guzman, Christodoulos A. Floudas, Efstratios N. Pistikopoulos | MCC, 103F      |
|                    | 4:23 PM      | (625e) Fault Detection and Diagnosis of Continuous Processes Via Non-Linear Support Vector Machine Based Feature Selection  
Melis Onel, Chris A. Kieslich, Yannis A. Guzman, Christodoulos A. Floudas, Efstratios N. Pistikopoulos | MCC, 103F      |
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| Thursday, November 2      | 8:00 AM – 8:19 AM | (664a) Maintenance Optimization-Based Survival Analysis for Optimal and Safer Operation: Cooling Tower Case Study  
**Prerna Jain**, Efstratios N. Pistikopoulos, M. Sam Mannan | MCC, 103E       |
|                           | 8:17 AM – 8:34 AM | (646b) Big Data Approach to Fault Detection, Diagnosis and Maintenance Optimization in Batch Processes  
**Melis Onel**, Chris A. Kieslich, Yannis A. Guzman, Efstratios N. Pistikopoulos | MCC, 103F       |
|                           | 9:28 AM – 9:50 AM | (658e) Robust Multi-Period and Multi-Objective Strategic Planning of Hydrogen Networks  
**Gerald S. Ogumerem**, William W. Tso, C. Doga Demirhan, Changkyu Kim, Efstratios N. Pistikopoulos | MCC, 101E       |
|                           | 9:42 AM – 9:59 AM | (667g) Integration of Design, Scheduling and Control Under Uncertainty Via Model Based Multi-Parametric Programming  
**Baris Burnak**, Justin Katz, Nikolaos A. Diangelakis, Efstratios N. Pistikopoulos | MCC, 103D       |
|                           | 12:30 PM – 12:52 PM | (707a) Advancing the Production of Olefins and Aromatics from Natural Gas Via Methanol: Chemical Looping for Syngas Generation  
**William W. Tso**, C. Doga Demirhan, Alexander M. Niziolek, Onur Onel, Christodoulos A. Floudas, Efstratios N. Pistikopoulos | MCC, 200C       |
|                           | 2:00 PM – 2:18 PM | (730f) Process Synthesis and Global Optimization of Novel Ammonia Production Processes  
**C. Doga Demirhan**, William W. Tso, Efstratios N. Pistikopoulos | MCC, 101F/G     |

* MCC – Minneapolis Convention Center