Preliminary program of the

4th Summer School of the IMPRS Magdeburg, August 31–September 04, 2015 on

Process Systems Engineering

Monday, August 31

09:00h	Opening of the summer school	Andreas Seidel-Morgenstern (Max Planck Institute Magdeburg)
09:15h - 10:45h	A Systems & Control Perspective on Process Systems Engineering	George Stephanopoulos (Massachusetts Institute of Technology)
10:45h	Coffee break	
11:00h - 12:30h	A Systems & Control Perspective on Process Systems Engineering (continued)	George Stephanopoulos (Massachusetts Institute of Technology)
12:30h	Lunch break	
14:00h - 15:30h	Control and Optimization of Batch Processes	Dominique Bonvin (Swiss Federal Institute of Technology Lausanne)
15:30h	Coffee break	
16:00h - 17:30h	Control and Optimization of Batch Processes (continued)	Dominique Bonvin (Swiss Federal Institute of Technology Lausanne)
Evening	Get-together	
Tuesda	y, Sept. 01	
09:00h - 10:30h	Boundary Heat and Mass Transfer: Analytical and Numerical Approaches	Jürgen Fuhrmann (Weierstrass Institute for Applied Analysis and Stochastics Berlin)
10:30h	Coffee break	
11:00h - 12:30h	Boundary Heat and Mass Transfer: Analytical and Numerical Approaches (continued)	Jürgen Fuhrmann (Weierstrass Institute for Applied Analysis and Stochastics Berlin)
12:30h	Lunch break	
14:00h - 15:30h	Dynamic Optimization of Chemical Processes	Yoshiaki Kawajiri (Georgia Institute of Technology)
15:30h	Coffee break	
16:00h -	Dynamic Optimization of Chemical Processes	Yoshiaki Kawajiri
17:30h	(continued)	(Georgia Institute of Technology)

Wednesday, Sept. 02

08:30h - 10:00h	Advances in Deterministic Global Optimization: From Theory to Algorithmic Methods to Computations Tools to Applications	Christodoulos A. Floudas (Texas A&M University)
10:00h	Coffee break	
10:30h - 12:00h	Advances in Deterministic Global Optimization: From Theory to Algorithmic Methods to Computations Tools to Applications (continued)	Christodoulos A. Floudas (Texas A&M University)
12:00h	Lunch break	
13:30h - 15:00h	Sampling-based Approaches for Uncertainty Tracking for Intracellular Processes	Nicole Radde (University of Stuttgart)
Afternoon	Excursion	

08:30h - 10:00h	Sampling-based Approaches for Uncertainty Tracking for Intracellular Processes (continued)	Nicole Radde (University of Stuttgart)
10:00h	Coffee break	
10:30h - 12:00h	Model-based Engineering of Complex Process Systems	Constantinos C. Pantelides (Imperial College London)
12:00h	Lunch break	
13:30h - 15:00h	Model-based Engineering of Complex Process Systems (continued)	Constantinos C. Pantelides (Imperial College London)
15:00h	Coffee break	
15:30h- 17:00h	Estimation, Modeling and Control of Crystallization Processes	Zoltan K. Nagy (Purdue University)
17:00h	Coffee break	
17:30h- 19:00h	Estimation, Modeling and Control of Crystallization Processes (continued)	Zoltan K. Nagy (Purdue University)
Evening	tba	

Friday, Sept. 04

09:00h - 10:30h	Scientific Computing in the Chemical Industry	Anna Schreieck (BASF Germany)
10:30h	Coffee break	
11:00h - 12:30h	Complex Systems Modeling	Kathrin Hatz (Bayer Technology Services Germany)
12:30h	Final summary	Andreas Seidel-Morgenstern (Max Planck Institute Magdeburg)
12:45h	Lunch break	