

Program at a Glance				
May 28 - June 2, 2017				
Sunday, 28 May, 2017				
15:00 - 19:00	Registration at Conference Center			
Monday, 29 May, 2017				
8:30 - 17:00	Registration at Conference Center			
9:00 - 9:30	Opening Cerimony			Lecture Hall
9:30 -10:15	Session 1-1 Plenary Talk	Mitigating Hot Spots in Planar and Three-Dimensional (3D) Microelectronics Using Liquid Cooling		Lecture Hall
	Lecture Hall	Room A	Room B	Room C
10:25-11:10	Keynote Lecture 1-1	Keynote Lecture 1-2	Keynote Lecture 1-3	Keynote Lecture 1-4
	When Computers Get Hot: The Cooling Problem in Data Centers	Multiscales and Multiphysics Computations using the Finite-Volume Method	Impact of Computational Radiation Transfer on Science, Engineering and Society	Numerical Investigations of Turbulent Natural Convection in Open Ended Channels
11:10 - 11:30	Coffee Break			
11:30-13:00	Session 1-2-A	Session 1-2-B	Session 1-2-C	Session 1-2-D
	Modeling and Simulation of Multiphase Flow and Heat Transfer I	Forced Convection I	Radiation Panel	Computational Heat and Mass Transport in Biological Systems I
13:00 - 14:15	Lunch			
14:15-15:00	Keynote Lecture 1-5	Keynote Lecture 1-6	Keynote Lecture 1-7	Keynote Lecture 1-8
	Numerical, Experimental and Theoretical Study of Evaporative Cooling Using Saline Water	Heat Transfer in a Channel with Pin-Fins and Impingement	Thermoelectric Generator for Energy Recovery from the Exhaust Gases of Heavy-Duty Vehicles	Localized Double Adaptation Refinement vs Localized Meshless Methods for Convective Heat Transfer
15:10 - 16:40	Session 1-3-A	Session 1-3-B	Session 1-3-C	Session 1-3-D
	Modeling and Simulation of Multiphase Flow and Heat Transfer II	Forced Convection II	Radiation I	Computational Heat and Mass Transport in Biological Systems II
16:40 - 17:00	Coffee Break			
17:00 - 18-30	Session 1-4-A	Session 1-4-B	Session 1-4-C	Session 1-4-D
	Modeling and Simulation of Multiphase Flow and Heat Transfer III	Forced Convection III	Radiation II	Conduction Heat Transfer I
19:00	Welcome Cocktail			
Tuesday, 30 May, 2017				
8:30 - 17:00	Registration at Conference Center			
9:00 - 9:30	Session 2-1 Plenary Talk	Simulating Heat Transfer Phenomena with COMSOL Multiphysics		Lecture Hall
9:30 - 10:00	Plenary Session on Spalding's Memorial			Lecture Hall
	Lecture Hall	Room A	Room B	Room C
10:10-10:55	Keynote Lecture 2-1	Keynote Lecture 2-2	Keynote Lecture 2-3	

	Transport Processes in Continuous Casting of Steel	Numerical Prediction of Fluid Flow and Heat Transfer in Cross-Flow Micro Heat Exchangers	Nonlinear Eigenvalue Problem Approach in the Hybrid Integral Transforms Analysis of Convection-Diffusion Problems	
10:55 - 11:40	Coffee Break & Poster Session Hall			
11:40 - 13:10	Session 2-2-A	Session 2-2-B	Session 2-2-C	Session 2-2-D
	Spalding's Memorial	Modeling and Simulation of Multiphase Flow and Heat Transfer IV	Natural Convection I	Conduction Heat Transfer II
13:10 - 14:15	Lunch			
14:15 - 15:00	Session 2-2 Plenary Talk	Heat Transfer with Thermal Waves and Resonance		Lecture Hall
	Lecture Hall	Room A	Room B	Room C
15:10 - 16:40	Session 2-3-A	Session 2-3-B	Session 2-3-C	Session 2-3-D
	Spalding's Memorial	Modeling and Simulation of Multiphase Flow and Heat Transfer V	Advanced Computational Techniques I	Numerical Modeling of Melting and Solidification
16:40 - 17:00	Coffee Break			
17:00 - 18:30	Session 2-4-A	Session 2-4-B	Session 2-4-C	Session 2-4-D
	Spalding's Memorial	Modeling and Simulation of Multiphase Flow and Heat Transfer VI	Computations in Micro and Nanoscale Heat Transfer I	Energy and Environmental System I
20:00	Gala Dinner			
Wednesday, 31 May, 2017				
8:30 - 11:00	Registration at Conference Center			
9:00 - 9:45	Session 3-1 Plenary Talk	On Simulations of Radiative Heat Transfer in Combustion Applications		Lecture Hall
	Lecture Hall	Room A	Room B	Room C
9:55 - 11:25	Session 3-1-A	Session 3-1-B	Session 3-1-C	Session 3-1-D
	Energy and Environmental Systems II	Computations in Micro and Nanoscale Heat Transfer II	Natural Convection II	Modeling and Simulation of Multiphase Flow and Heat Transfer VII
11:25 - 11:45	Coffee Break			
11:45-13:15	Session 3-2-A	Session 3-2-B	Session 3-2-C	
	Computations in Micro and Nanoscale Heat Transfer III	Energy and Environmental Systems III	Advanced Computational Techniques II	
13:15	Free Afternoon			
Thursday, 1 June, 2017				
8:30 - 11:00	Registration at Conference Center			
9:00 - 9:45	Session 4-1 Plenary Talk	Modelling Thermal and Fluid-Dynamic Phenomena in the Combustion Chambers of Incineration Plants		Lecture Hall
	Lecture Hall	Room A	Room B	Room C
9:55 - 10:40	Keynote Lecture 3-1	Keynote Lecture 3-2	Keynote Lecture 3-3	

	Oscillatory Instability of Natural Convection of Air in a Laterally Heated Cube: DNS vs Linear Stability Analysis	Thermal Management of Concentrated Photoelectrochemical Energy Conversion and Storage Devices	The Role of 3-D Structure on Heat and Mass Transfer in Energy Materials	
10:40 - 11:00	Coffee Break			
11:00 - 11:45	Keynote Lecture 3-4	Keynote Lecture 3-5	Keynote Lecture 3-6	
	Nonlinear Eigenvalue Problem Approach in the Hybrid Integral Transforms Analysis of Convection-Diffusion Problems	Transport in Battery Electrodes: Scaling Behavior Assessed Based on Real and Simulated Microstructures	Computational Determination of Volume Averaged Transport Properties of Heat and Fluid Flow in Porous Media by Using Microtomography Images	
11:55 - 13:10	Session 4-1-A	Session 4-1-B	Session 4-1-C	
	Turbulent Transport	Hybrid Methods & Energy Materials for Electrochemical Energy Conversion and Storage	Modeling of Thermal Management Systems I	
13:10 - 14:30	Lunch			
14:30 - 16:00	Session 4-2-A	Session 4-2-B	Session 4-2-C	
	Boundary Layers	CFD for Aerodynamics and Cooling in Turbomachinery & Numerical Methods and Simulations for Compact Heat Exchangers	Modeling of Thermal Management Systems II	
16:10 - 16:30	Closing Ceremony			