

**TFESC Program Layout**

Sunday-Wednesday, 9-12 August 2015 @Roosevelt Hotel, New York, NY

Sunday 8-9-2014	
1230 hrs	
1245 hrs	12:30pm-3pm
1300 hrs	ASTFE Board Meeting
1315 hrs	
1330 hrs	[CLOSED]
1345 hrs	
1400 hrs	
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1445 hrs	
1500 hrs	
1515 hrs	3pm-6pm
1530 hrs	ASTFE Board Meeting
1545 hrs	
1600 hrs	
1615 hrs	
1630 hrs	[OPEN]
1645 hrs	
1700 hrs	
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1815 hrs	6pm-9pm
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1845 hrs	
1900 hrs	TFESC
1915 hrs	welcome reception
1930 hrs	
1945 hrs	
2000 hrs	
2015 hrs	
2030 hrs	
2045 hrs	
2100 hrs	

**Monday 8-10-2014**

**0800 hrs**

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Plenary lecture [8:00am-9:00am] <b>Sanjoy Banerjee:</b> Heat and Mass Transfer across Turbulent Gas-Liquid Interfaces								
Tech-Talk [9:00am-9:15am]: "Urban Electric Power – Battery Development" by Dr. Valerio De Angelis								
COFFEE BREAK [9:15am-9:45am]								
Parallel Session I	Parallel Session II	Parallel Session III	Parallel Session IV	Parallel Session V	Parallel Session VI	Parallel Session VII	Parallel Session VIII	
East End	Broadway	Sutton	Vanderbilt	Riverside	Fashion	Fifth Avenue	Lexington	
<b>HTE I</b>	<b>CBF I</b>	<b>CMD I</b>	<b>FND I</b>	<b>PRM I</b>	<b>MPH I</b>	<b>MNT</b>	<b>IAM</b>	
Raj Manglik	Yogesh Jaluria	Kevin Dowding	Chen-Xian Lin	Ehsan Languri	Sumanta Acharya	Dong Liu	Yaroslav Chudnovsky	
BREAK [11:15am-11:30am]								
Plenary lecture [11:30am-12:30pm] <b>Sanjiva Lele:</b> Simulations of Shock-Turbulence Interactions: From Canonical Problems to Engineering Applications								
Tech-Talk [12:30pm - 12:45pm]: "Heat Exchangers Database Handbook Development" by Dr. Francesco Coletti								
LUNCH TIME [12:45pm - 1:45pm INDIVIDUAL SCHEDULE]								
Plenary lecture [1:45pm-2:45pm] <b>Joseph Katz:</b> Common Features in the Flow Structure and Turbulence of Tip Leakage Flows in Axial Turbomachines								
Tech-Talk [2:45pm - 3:00pm]: "Excellence Through Diversity" by Dr. Pamela Norris								
REFRESHMENT BREAK [3:00pm-3:15pm]								
Parallel Session IX	Parallel Session X	Parallel Session XI	Parallel Session XII	Parallel Session XIII	Parallel Session XIV	Parallel Session XV	Parallel Session XVI	
Vanderbilt	East End	Broadway	Sutton	Fashion	Fifth Avenue	Riverside	Lexington	
<b>FND II</b>	<b>HTE II</b>	<b>CBF II</b>	<b>CMD II</b>	<b>MPH II</b>	<b>MNR</b>	<b>EES</b>	<b>ASP I</b>	
SA Sherif	Matt McCarthy	Yogesh Jaluria	Kevin Dowding	Steve Cai	Zhuomin Zhang	Ahmad Fakheri	David Pratt	
BREAK [4:45pm-5:00pm]								
Tech-Talk [5:00pm - 5:15pm]: "Learning to Unlearn: Personal Experiences in Entrepreneurship, Manufacturing and Business Growth" by Dr. Sanjeev Sathe								
Plenary panel [5:15pm-6:45pm] <b>SA Sherif, Frank Kulacki, Sumanta Acharya, Avi Bar-Cohen, Pat Phelan, Jim Klausner:</b> Opportunities and Challenges in Federally-Funded Research								
EXHIBITION AND NETWORKING TIME [6:30pm-8:00pm]								

Tuesday 8-11-2015

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Plenary lecture [8:00am-9:00am]  
**Wayne Strasser:** CFD Application to Large-Scale Industrial Multiphase Flows: Miracles Do Happen

COFFEE BREAK [9:00am-9:30am]

Parallel Session I	Parallel Session II	Parallel Session III	Parallel Session IV	Parallel Session V	Parallel Session VI	Parallel Session VII	Parallel Session VIII
Sutton	Riverside	Vanderbilt	East End	Broadway	Fifth Avenue	Lexington	Fashion
<b>FND III</b> Chen-Xian Lin	<b>HTE III</b> David Pratt	<b>NES</b> Yong Tao	<b>CMD III</b> Francine Battaglia	<b>ECV I</b> Bong Jae Lee	<b>HTE IV</b> Ahmad Fakheri	<b>MPH III</b> Steve Cai	<b>MNC</b> Zhuomin Zhang

BREAK [11:00am-11:15am]

**THERMAL FLUIDS ENGINEERING AWARD LUNCHEON [11:30am - 1:30pm - PROVIDED BY ASTFE]**

Plenary lecture [2:00pm-3:00pm] **Howard Baum:** Simulating Fire Effects in Large Buildings

REFRESHMENT BREAK [3:00pm-3:30pm]

Parallel Session IX	Parallel Session X	Parallel Session XI	Parallel Session XII	Parallel Session XIII	Parallel Session XIV	Parallel Session XV	Parallel Session XVI
Vanderbilt	East End	Fifth Avenue	Sutton	Broadway	Lexington	Fashion	Riverside
<b>FND IV</b> Keith Walters	<b>HTE V</b> Raj Manglik	<b>BIO</b> Yogesh Jaluria	<b>CMD IV</b> Francine Battaglia	<b>MPH IV</b> Steve Cai	<b>MNP</b> Dong Liu	<b>ASP II</b> David Pratt	<b>EEP</b> Ahmad Fakheri

BREAK [5:00pm-5:15pm]

**EXHIBITION AND NETWORKING TIME [5:00-6:30pm]**

**Wednesday 8-12-2015**

**0800 hrs**

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Plenary lecture [8:00am-9:00am] <b>John Abbott:</b> Modeling Thermal and Fluids Problems Arising in Industry							
COFFEE BREAK [9:00am-9:30am]							
Parallel Session I East End	Parallel Session II Fifth Avenue	Parallel Session III Broadway	Parallel Session IV Vanderbilt	Parallel Session V Lexington	Parallel Session VI Sutton	Parallel Session VII Riverside	Parallel Session VIII Fashion
<b>FND V</b> Keith Walters	<b>HTE VI</b> David Pratt	<b>MPH V</b> Sumanta Acharya	<b>CMD V</b> Kevin Dowding	<b>ECV II</b> Jon Longtin	<b>PHG I</b> CK Choi	<b>TDP</b> Matt Jones	<b>FND VI</b> SA Sherif
BREAK [11:00am-11:15am]							
Plenary lecture [11:15am-12:15pm] <b>Mukund Karwe:</b> Thermal Transport in Selected Food Processing Operations							
LUNCH TIME [12:15pm - 1:15pm INDIVIDUAL SCHEDULE]							
Parallel Session IX East End	Parallel Session X Vanderbilt	Parallel Session XI Lexington	Parallel Session XII Broadway	Parallel Session XIII Sutton	Parallel Session XIV Riverside	Parallel Session XV Fashion	Parallel Session XVI Fifth Avenue
<b>HTE VII</b> Ahmad Fakheri	<b>CMD VI</b> Jun Zhou	<b>TIA</b> Olexiy Buyadgie	<b>MPH VI</b> Matt McCarthy	<b>PHG II</b> CK Choi	<b>PMD II</b> Ehsan Languri	<b>ECV III</b> Kay Park	<b>MNF</b> Dong Liu
BREAK - 2:45pm-3:00pm							
TFESC CLOSING CEREMONY [3:00pm] - Vanderbilt							
ASTFE BOARD FOLLOW UP OPEN DISCUSSION ON FUTURE ACTIVITIES AND PROGRAMS [4pm - 5:30pm] [ALL INTERESTED ARE INVITED] - Sutton							

## LEGEND

<b>HTE</b>	Heat Transfer Enhancement
<b>FND</b>	Fundamentals
<b>CMD</b>	Computational Methods
<b>CBF</b>	Combustion and Fuels
<b>PRM</b>	Porous Media
<b>MPH</b>	Multiphase
<b>MNT</b>	Micro-Nano Thermal Science
<b>MNC</b>	Micro-Nano Conduction
<b>MNR</b>	Micro-Nano Radiation
<b>MNF</b>	Micro-Nano Channels and Nanofluids
<b>MNP</b>	Micro-Nano Phase Change
<b>IAM</b>	Industrial Processes and Advanced Manufacturing
<b>TIA</b>	Thermal Fluids in Industrial Applications
<b>ASP</b>	Aerospace Applications
<b>EES</b>	Engineering Equipment and Environmental Systems
<b>EEP</b>	Engineering Equipment and Processes
<b>ECV</b>	Energy Conversion
<b>BIO</b>	Thermal Science in Biomedicine and Biofluids
<b>PHG</b>	Photo Gallery
<b>TDP</b>	Thermodynamics and Properties
<b>NES</b>	Numerical and Experimental Studies in Thermal Fluids Processes