Sunday
November 10

3:30PM–5:00PM
Committee Meeting

Heat Transfer Division Executive Committee Meeting (Open Meeting)

Organizers

Mr. Kevin Dowding
Track Organizer
Sandia
Albuquerque, NM, United States

Prof. Brent Webb
Track Co-Organizer
Brigham Young Univ
Provo, UT, United States

Prof. Yuwen Zhang
Track Co-Organizer
University of Missouri
Columbia, MO, United States

Description

Heat Transfer and Thermal Engineering - is organized by the Heat Transfer Division (HTD) of the ASME. The Track contains a collection of Topics in the broad area of heat transfer, which are individually organized by leading researchers in the field. The Topics give a comprehensive coverage of the theory and application of heat transfer in equipment and thermodynamic processes in all fields of mechanical engineering and related technologies. Contributions in the form of abstracts for oral presentation are sought in the individual Topics.

Monday
November 11

10:45 AM - 12:30 PM
Panel Session

9-23-1 Panel: Engaging with the Heat Transfer Division (HTD) and Technical Committees

10:45 AM - 12:30 PM
Technical Session

9-32-1 K10-1 Single phase heat transfer equipment

10:45 AM - 12:30 PM
Technical Session

9-43-1 K13-1 Heat Transfer in MultiPhase Systems - I

2:00 PM - 3:45 PM
Technical Session

9-35-1 K10-4 Heat exchangers

2:00 PM - 3:45 PM
Technical Session

9-63-1 K20-2 Applications of Computational Heat Transfer

2:00 PM - 3:45 PM
Technical Session

9-20-1 Fundamentals oElectron and Phonon Nonequilibrium Transport (joint with K-9)

2:00 PM - 3:45 PM
Technical Session

9-43-2 K13-1 Heat Transfer in MultiPhase Systems - II

4:00 PM - 5:45 PM
Technical Session

9-36-1 K10-5 Advances in heat exchangers design and analysis - I

4:00 PM - 5:45 PM
Technical Session

9-41-1 K11-3 CMS - Applied Combustion

4:00 PM - 5:45 PM
Technical Session

9-64-1 K20-3 Methods and Algorithms in Computational Heat Transfer

4:00 PM - 5:45 PM
Technical Session

9-45-1 Condensation

4:00 PM - 5:45 PM
Panel Session

9-66-1 K21-1 Panel on Recent advancements and discussions in heat transfer and thermal science education

Tuesday
November 12

9:45 AM - 10:30 AM
Plenary Session

9-69-1 Plenary Session I

10:45 AM - 12:30 PM
Technical Session

9-25-1 K9-2 Thermal transport in 2D and anisotropic materials

10:45 AM - 12:30 PM
Technical Session

9-6-1 K6-6 Radiative heat transfer of energy systems

10:45 AM - 12:30 PM
Technical Session

9-36-2 K10-5 Advances in heat exchangers design and analysis - II

2:00 PM - 3:45 PM
Technical Session

9-39-1 K11-1 CMS - Combustion Processes - I

2:00 PM - 3:45 PM
Technical Session

9-7-1 K6-7 Heat transfer in passive thermal control systems

2:00 PM - 3:45 PM
Technical Session

9-25-2 K9-2 Thermal transport in 2D and anisotropic materials - II

4:00 PM - 5:45 PM
Technical Session

9-9-1 K6-9 Two phase transport in energy systems and non-equilibrium and dynamic energy systems

4:00 PM - 5:45 PM
Technical Session

9-39-2 K11-1 CMS - Combustion Processes - II

4:00 PM - 5:45 PM
Technical Session

9-25-3 Thermal Transport in 2D and Anisotropic Materials III

Wednesday
November 13

9:45 AM - 10:30 AM
Plenary Session

9-69-2 Plenary Session II

10:45 AM - 12:30 PM
Technical Session

9-14-1 K6-14 Radiation properties

10:45 AM - 12:30 PM
Technical Session

9-46-1 K14-1 Gas Turbine Heat Transfer and Cooling

10:45 AM - 12:30 PM
Technical Session

9-26-1 K9-3 Thermal transport in metamaterials

2:00 PM - 3:45 PM
Technical Session

9-19-1 K8-2 Fundamentals of Single Phase Convection I

2:00 PM - 3:45 PM
Technical Session

9-29-1 K9-6 Nanoscale modeling and simulation - I

2:00 PM - 3:45 PM
Technical Session

9-10-1 K6-10 Panel on The key role of heat transfer analysis in energy systems research

4:00 PM - 5:45 PM
Technical Session

9-2-1 K6-2 Numerical analysis and performance Assessment of energy systems

4:00 PM - 5:45 PM
Technical Session

9-19-2 K8-2 Fundamentals of Single Phase Convection II

4:00 PM - 5:45 PM
Technical Session

9-29-2 K9-6 Nanoscale modeling and simulation - II

Thursday
November 14

8:15 AM - 10:00 AM
Technical Session

9-4-1 K6-4 Heat transfer in solar power systems

8:15 AM - 10:00 AM
Technical Session

9-18-1 K8-1 Fundamentals of Boiling, Evaporation, and Condensation including Micro/Nano-scale effects I

8:15 AM - 10:00 AM
Technical Session

9-57-1 K19-1 Heat and Mass Transfer in the Natural and Built Environment

8:15 AM - 10:00 AM
Technical Session

9-24-1 K9-1 Thermal transport across hard/soft interfaces

10:15 AM - 12:00 PM
Technical Session

9-30-1 K9-7 Nanoscale thermal radiation

10:15 AM - 12:00 PM
Technical Session

9-18-2 K8-1 Fundamentals of Boiling, Evaporation, and Condensation including Micro/Nano-scale effects II

2:00 PM - 3:45 PM
Technical Session

9-15-1 K7-1 Spatially resolved thermophysical property measurements

2:00 PM - 3:45 PM
Technical Session

9-49-1 K15-3 Transport Phenomena in Additive Manufacturing

2:00 PM - 3:45 PM
Technical Session

9-51-1 K16-1: Heat Transfer in Electronic Equipment I

2:00 PM - 3:45 PM
Technical Session

9-59-1 Advances in Water and Wastewater Processing and Water Desalination Technologies

2:00 PM - 3:45 PM
Technical Session

9-30-2 K9-7 Nanoscale thermal radiation

4:00 PM - 5:45 PM
Technical Session

9-16-1 K7-2 Thermophysical properties of next-generation thermal storage materials

4:00 PM - 5:45 PM
Technical Session

9-53-1 K18-1 Thermal transport under high temperature and/or pressure conditions

4:00 PM - 5:45 PM
Technical Session

9-31-1 K9-8 Nanoscale materials for thermal energy systems

4:00 PM - 5:45 PM
Technical Session

9-5-1 K6-1 Simulation and validation methods of mixed convection and conjugate heat transfer analyses in annular or ducting systems

4:00 PM - 5:45 PM
Technical Session

9-51-2 K16-1: Heat Transfer in Electronic Equipment II