

SHTC & ES 2023 SCHEDULE-AT-A GLANCE

Time Available	Event	Room
SUNDAY, JULY 9		
1:00PM-5:00PM	ES Journal Meeting - Closed	Adams A
3:00PM-6:00PM	Registration	Dolley Madison Foyer
12:00PM-2:00PM	SHTC HTD EC Meeting - Closed	Executive Boardroom
2:30PM-4:30PM	SHTC HTD EC Meeting - Open	Executive Boardroom
MONDAY, JULY 10		
7:00AM-6:00PM	Mothers Room	Office
7:00AM-5:00PM	Registration	Dolley Madison Foyer
8:00AM-9:00AM	Welcome and Plenary Session I - Bud Peterson, Max Jakob Award	Dolley Madison Ballroom
8:00AM-9:00AM	ES Yellot Award Lecture - Solar Reactor-Based Utility-Scale Power Generation System Using Hydrogen and Carbon Fuel Cells	Potomac A
9:00AM-10:30AM	SHTC Raymond Viskanta Memorial Symposium-01 - Thermal Radiation in Energy Systems	Montpelier A
9:00AM-10:30AM	SHTC K7 - Thermophysical and Radiative Properties of Materials	Montpelier B
9:00AM-10:30AM	SHTC K9-01 - Thermal Transport in Nanomaterials/across Interfaces 1	Hamilton A
9:00AM-10:30AM	SHTC K8-01 - Fundamentals of Boiling/Condensation Including Micro/Nano-scale Effects (Includes Molecular Level Simulation of Phase Change) I	Hamilton B
9:00AM-10:30AM	SHTC K13-01 - Enhanced Condensation and Anti-Fouling Studies	Constitution A
9:00AM-10:30AM	SHTC K6-01 - Heat Transfer in Energy Systems - Solar	Constitution B
9:00AM-10:30AM	SHTC K20-01 - Applications of Computational Heat Transfer I	Adams B
9:00AM-10:30AM	05-01 - Thermochemical Energy Storage for CSP Applications	Potomac A
9:00AM-10:30AM	02-01 - Heat Pump and Building Waste Heat Utilization	Dolley Madison Ballroom
9:00AM-10:30AM	01-01 - A Just Transition to a Sustainable Future	Potomac C
9:00AM-10:30AM	06-01 - Thermochemical Redox Cycles: Demonstration and Operation	Adams A
10:30AM-11:00AM	AM Coffee Break- SHTC/ES	Dolley Madison Foyer
10:30AM-11:00AM	Student Hackathon Meet & Greet	Dolley Madison Ballroom
11:00AM-12:30PM	SHTC Raymond Viskanta Memorial Symposium-02 - Nanoscale Thermal Radiation	Montpelier A
11:00AM-12:30PM	SHTC K16-01 - Heat Transfer in Electronic Equipment I	Montpelier B
11:00AM-12:30PM	SHTC K9-02 - Thermal Transport in Nanomaterials/across Interfaces 2	Hamilton A

11:00AM-12:30PM	SHTC K8-02 - Fundamentals of Boiling/Condensation Including Micro/Nano-scale Effects (Includes Molecular Level Simulation of Phase Change) II	Hamilton B
11:00AM-12:30PM	SHTC K13-02 - Pool Boiling Fundamentals	Constitution A
11:00AM-12:30PM	SHTC K6-02 - Heat Transfer in Energy Systems - Energy Storage	Constitution B
11:00AM-12:30PM	SHTC K20-02 - Applications of Computational Heat Transfer II	Adams B
11:00AM-12:30PM	05-02 - Metrology in CSP	Potomac A
11:00AM-12:30PM	05-03 - Solar Receiver Design 1	Dolley Madison Ballroom
11:00AM-12:30PM	03-01 - Thermochemical Energy Storage	Potomac C
11:00AM-12:30PM	08-01 - Thermal Energy Conversion Techniques	Adams A
12:30PM-1:45PM	Lunch - SHTC/ES	Dolley Madison Ballroom & Montpelier A & B
12:30PM-1:45PM	Underrepresented in STEM Lunch Discussion - SHTC/ES	Constitution A
1:45PM-3:15PM	SHTC Raymond Viskanta Memorial Symposium-03 - Thermal Radiation in Manufacturing and Energy	Montpelier A
1:45PM-3:15PM	SHTC K16-02 - Heat Transfer in Electronic Equipment II	Montpelier B
1:45PM-3:15PM	SHTC K9-03 - Thermal Transport in Nanomaterials/across Interfaces 3	Hamilton A
1:45PM-3:15PM	SHTC K8-03 - Fundamentals of Single Phase Heat Transfer and Melting and Solidification	Hamilton B
1:45PM-3:15PM	SHTC K13-03 - Flow Boiling Fundamentals	Constitution A
1:45PM-3:15PM	SHTC K6-03 - Heat Transfer in Energy Systems - Waste Heat	Constitution B
1:45PM-3:15PM	SHTC K20-03 - Computational Methods	Adams B
1:45PM-3:15PM	05-04 - Solar Receiver Design 2	Potomac A
1:45PM-3:15PM	02-02 - Fluid Mechanics and Heat Transfer in Building Applications	Dolley Madison Ballroom & Montpelier A & B
1:45PM-3:15PM	03-02 - Phase Change Thermal Energy Storage	Potomac C
1:45PM-3:15PM	11-01 - Carbon Capture and Sequestration	Adams A
3:15PM-3:45PM	PM Coffee Break- SHTC/ES	Dolley Madison Foyer
3:15PM-3:45PM	Poster Session SHTC/ES	Dolley Madison Foyer
3:45PM-5:15PM	SHTC Raymond Viskanta Memorial Symposium-04 - Thermal Radiation in Energy Systems	Montpelier A
3:45PM-5:15PM	SHTC K16-03 - Heat Transfer in Electronic Equipment III	Montpelier B
3:45PM-5:15PM	SHTC K9-04 - Tunable Thermal Transport	Hamilton A
3:45PM-5:15PM	SHTC K8-04 - Fundamentals of Conduction Heat Transfer	Hamilton B
3:45PM-5:15PM	SHTC K13-04 - Spray Cooling	Constitution A
3:45PM-5:15PM	SHTC K6-04 - Heat Transfer in Energy Systems - Batteries	Constitution B

3:45PM-5:15PM	SHTC K20-04 - Machine Learning and Modeling for Heat Transfer Problems	Adams B
3:45PM-5:15PM	Open Lightning Talks/Elevator Pitches	Potomac A
6:00PM-7:00PM	SHTC Student Career Panel	Potomac C
6:00PM-8:00PM	SHTC K16 - Committee Meeting	Hamilton A
6:00PM-8:00PM	Student Networking Event	Hamilton B
6:00PM-8:00PM	SHTC K8 - Committee Meeting	Constitution A
6:00PM-8:00PM	SHTC K13 - Committee Meeting	Constitution B
6:00PM-8:00PM	SHTC K20 - Committee Meeting	Adams A
6:00PM-8:00PM	SHTC K23 - Committee Meeting	Adams B
TUESDAY, JULY 11		
7:00AM-5:00PM	Registration	Dolley Madison Foyer
7:00AM-6:00PM	Mothers Room	Office
8:00 AM-9:00AM	Plenary Session: Energy Storage for Sustainable Buildings, Judith Vidal, NREL - SHTC/ES	Dolley Madison Ballroom
9:00AM-10:30AM	SHTC Raymond Viskanta Memorial Symposium-05: Thermal Management	Mount Vernon A
9:00AM-10:30AM	SHTC K6-05 - Heat Transfer in Energy Systems - Heat Pump	Mount Vernon B
9:00AM-10:30AM	SHTC K8-05 - Fundamental of Radiative Heat Transfer	Hamilton A
9:00AM-10:30AM	SHTC K9-05 - Radiative Cooling and Radiative Properties of Nanomaterials	Hamilton B
9:00AM-10:30AM	SHTC K13-05 -Phase-Change from Enhanced Surfaces	Constitution A
9:00AM-10:30AM	SHTC K8/K17 - Workshop on Scanning Thermal Microscopy (SThM) and Applications	Constitution B
9:00AM-10:30AM	05-05 - Solar Receiver Design 3	Potomac A
9:00AM-10:30AM	05-06 - Other CSP Technologies	Montpelier B
9:00AM-10:30AM	02-03 - Building Management and Control	Potomac C
9:00AM-10:30AM	09-01 - Industrial Process Heat and Waste Heat	Adams A
9:00AM-10:30AM	04-01 - Research for the Clean Energy Transition (Socio-Technical, Education and Policy)	Adams B
10:30AM-11:00AM	AM Coffee Break - SHTC/ES	Dolley Madison Foyer
11:00AM-12:30PM	SHTC Raymond Viskanta Memorial Symposium-06: Thermal Management and Phase Change	Mount Vernon A
11:00AM-12:30PM	SHTC K6-06 Heat Transfer in Energy Systems - Heat Exchangers	Hamilton A
11:00AM-12:30PM	SHTC K17 - Heat and Mass Transfer in Biotechnology	Hamilton B
11:00AM-12:30PM	SHTC K9-06 - Radiative Thermal Energy Conversion with Nanostructures	Constitution A
11:00AM-12:30PM	SHTC K13-06 - Heat Transfer in Multi-Phase Flow	Constitution B
11:00AM-12:30PM	SHTC K9 Panel: Nanoscale Heat Transfer Education	Mount Vernon B
11:00AM-12:30PM	10-01 - Hydrogen Energy, Alternative Fuels, Bioenergy, and Biofuels	Montpelier B
11:00AM-12:30PM	05-11 - Heliostat Consortium 1	Montpelier A

11:00AM-12:30PM	05-08 - Particles for Thermal Energy Storage in CSP 1	Potomac C
11:00AM-12:30PM	06-02 - Materials and Fundamentals	Adams A
11:00AM-12:30PM	03-03 - Pumped Thermal Energy Storage	Adams B
12:30PM-1:45PM	SHTC Awards Lunch	Dolley Madison Ballroom & Montpelier A & B
12:30PM-1:45PM	ES Awards Lunch	Potomac A
1:45PM-3:15PM	SHTC/ES Panel - Funding Opportunities	Mount Vernon B
1:45PM-3:15PM	SHTC K8 Workshop: Use of Machine Learning Tools for Thermophysics and Heat Transfer Research and Energy Technology Development	Hamilton A
1:45PM-3:15PM	SHTC K11 - Fire and Combustion	Hamilton B
1:45PM-3:15PM	SHTC K9-07 - Surface-Enhanced Phase Change Heat Transfer 1	Constitution A
1:45PM-3:15PM	SHTC K18- Heat Transfer under Extreme Conditions	Constitution B
1:45PM-3:15PM	Panel on Thermal Energy Storage for Electricity and Industrial Heat Applications	Mount Vernon A
1:45PM-3:15PM	05-07 - CSP System Analysis, Controls, and Standards	Montpelier B
1:45PM-3:15PM	02-04 - Building Envelope, Building Energy, and Data Centers	Montpelier A
1:45PM-3:15PM	08-02 - Alternative Energy Conversion Techniques	Adams A
3:15PM-3:45PM	PM Coffee Break SHTC/ES	Dolley Madison Foyer
3:45PM-5:15PM	SHTC Raymond Viskanta Memorial Symposium-07 - Heat Conduction	Hamilton A
3:45PM-5:15PM	SHTC K6-07 - Heat Transfer in Energy Systems - General	Hamilton B
3:45PM-5:15PM	SHTC Darrell Pepper Memorial Symposium	Constitution A
3:45PM-5:15PM	SHTC K9-08 - Surface-Enhanced Phase Change Heat Transfer 2	Constitution B
3:45PM-5:15PM	SHTC K8 Industry Panel: Fundamentals on Thermal Management of Electronics	Mount Vernon A
3:45PM-5:15PM	SED Committees Meeting: Conservation and Solar Buildings	Potomac A
3:45PM-5:15PM	SED Committees Meetings: Solar Chemistry & Bio Conversion	Adams B
3:45PM-5:15PM	SED Committees Meetings: Solar Thermal Power	Potomac C
3:45PM-5:15PM	AESD Committees Meetings: Renewable Energy and Energy Conversion (REEC)	Adams A
3:45PM-4:45PM	IMECE 2023 Session Organizers Meeting	Executive Boardroom
3:45PM-5:15PM	Program Directors 1-1 Appointments	Montepelier B
5:15PM-8:00PM	Student Hackathon - SHTC/ES Presentations	Hamilton A
5:30PM-7:00PM	Solar Energy Division Executive Committee Meeting	Adams A
6:30PM-8:00PM	J. V. Beck Symposium Committee Meeting	Potomac C
6:00PM-8:00PM	SHTC K10 Committee Meeting	Mount Vernon A
6:00PM-8:00PM	SHTC K6 Committee Meeting	Mount Verson B
6:00PM-8:00PM	SHTC K15 Committee Meeting	Hamilton A

6:00PM-8:00PM	SHTC K9 Committee Meeting	Hamilton B
6:00PM-8:00PM	SHTC K12 Committee Meeting	Constitution A
6:00PM-8:00PM	SHTC K8 Industry/Student Networking	Constitution B
WEDNESDAY, JULY 12		
8:00AM-4:00PM	Registration	Dolley Madison Foyer
7:00AM-5:30PM	Mothers Room	Office
8:00AM-9:00AM	Plenary Session III - Hongbin Ma, Donald Q. Kern Award Lecture	Dolley Madison Ballroom
8:00AM-9:00AM	Plenary: Harnessing the Power of Sunlight in Two-step Solar Thermochemical Cycles Utilizing Redox-active Mixed Ionic-electronic Conducting Materials	Potomac A
9:00AM-10:30AM	SHTC Raymond Viskanta Memorial Symposium-08 - Energy Systems	Hamilton A
9:00AM-10:30AM	SHTC James V. Beck Memorial Symposium-01 - Inverse Problems, Parameter Estimation and Heat Conduction	Hamilton B
9:00AM-10:30AM	SHTC K10-01 - Heat Transfer Equipment I	Constitution A
9:00AM-10:30AM	SHTC K9-09 - Thermal Emission Control with Nanostructures	Constitution B
9:00AM-10:30AM	SHTC K12-01 - Aerospace Heat Transfer I	Mount Vernon B
9:00AM-10:30AM	05-12 - Heliostat Consortium 2	Potomac A
9:00AM-10:30AM	05-09 - Particles for Thermal Energy Storage in CSP 2	Mount Vernon A
9:00AM-10:30AM	09-02 - Solar Desalination	Montpelier A
9:00AM-10:30AM	06-03 - Novel Reactors and Processes	Adams A
9:00AM-10:30AM	07-01 - Photovoltaic & Electrochemical Technologies	Adams B
10:30AM-11:00AM	AM Coffee Break - SHTC/ES	Dolley Madison Foyer
11:00AM-12:30PM	SHTC Raymond Viskanta Memorial Symposium-09 - Phase Change in Materials Processing	Hamilton A
11:00AM-12:30PM	SHTC James V. Beck Memorial Symposium-02 - Inverse Problems, Parameter Estimation and Heat Conduction	Hamilton B
11:00AM-12:30PM	SHTC K10-02 - Heat Transfer Equipment II	Constitution A
11:00AM-12:30PM	SHTC K9-10 - Nanothermal Metrology	Constitution B
11:00AM-12:30PM	SHTC K12-02 - Aerospace Heat Transfer II	Adams B
11:00AM-12:30PM	05-13 - Heliostat Consortium 3	Potomac A
11:00AM-12:30PM	05-10 - Particles for Thermal Energy Storage in CSP 3	Mount Vernon A
11:00AM-12:30PM	02-05 - Innovations for Sustainably Built Environments	Montpelier A
11:00AM-12:30PM	03-04 - Sensible Energy Storage	Adams A
12:30PM-1:45PM	Lunch - SHTC/ES	Dolley Madison Ballroom & Monteplier A & B
1:45PM-3:15PM	SHTC Raymond Viskanta Memorial Symposium-10 - Phase Change Heat Transfer	Hamilton A
1:45PM-3:15PM	SHTC James V. Beck Memorial Symposium-03 - Inverse Problems, Parameter Estimation and Heat Conduction	Hamilton B

1:45PM-3:15PM	SHTC K10-03 - Heat Transfer Equipment III	Constitution A
1:45PM-3:15PM	SHTC K9-11- Phonon Modeling and Machine Learning for Thermal Transport	Constitution B
1:45PM-3:15PM	SHTC K15-01 - Transport Phenomena in Manufacturing and Materials Processing	Adams A
3:15PM-3:45PM	PM Coffee Break - SHTC	Dolley Madison Foyer
3:45PM-5:15PM	K12/K14-03 - Aerospace Heat Transfer/Gas Turbine Heat Transfer	Adams B
3:45PM-5:15PM	SHTC K19/K22/ K23 - Environmental Heat - Transfer/Heat Transfer Education/Diversity, Equity, and Inclusion in Heat Transfer Community	Hamilton A
3:45PM-5:15PM	SHTC K9-12 - Nanoscale Thermal Transport Modeling and Machine Learning	Hamilton B
3:45PM-5:15PM	SHTC K15-02 - Transport Phenomena in Additive Manufacturing	Constitution A
5:15PM	Conference Ends	