

Start	Thursday	Start	Thursday			
Time	Cafeteria	Time	Green Auditorium	Title	Speaker	ID #
7:00 AM	Arrival/Breakfast	7:00 AM				
7:15 AM	Arrival/Breakfast	7:15 AM				
7:30 AM	Arrival/Breakfast	7:30 AM				
7:45 AM	Arrival/Breakfast	7:45 AM				
8:00 AM	Arrival/Breakfast	8:00 AM				
8:15 AM	Arrival/Breakfast	8:15 AM				
8:30 AM	Arrival/Breakfast	8:30 AM				
8:45 AM		8:45 AM	Plenary 3	Artificial Intelligence and Machine Learning: An Overview from a National Science Foundation Perspective	Weng-keen Wong	76
9:00 AM		9:00 AM				
9:15 AM		9:15 AM				
9:30 AM		9:30 AM	Break			
9:45 AM		9:45 AM	Break			
10:00 AM		10:00 AM	Metallurgy and Phase Transformations	Nitrogen and nitrides in steels as seen by atom probe tomography	Fred Danoix	235
10:15 AM		10:15 AM	(Invited)			
10:30 AM		10:30 AM	Metallurgy and Phase Transformations	Evolution of Carbide Precipitates in Ti-Mo Microalloyed Steel	Ross Marceau	126
10:45 AM		10:45 AM	Metallurgy and Phase Transformations	Atom Probe Compositional Analysis of Nano-sized Alloy Carbide in Multiple Microalloyed Low-Carbon Steels	Yongjie Zhang	112
11:00 AM		11:00 AM	Metallurgy and Phase Transformations	Core/Triple Shell Precipitates in Al-Er-Sc-Zr-(V,Nb,Ta) Alloys	Keith Knipling	219
11:15 AM		11:15 AM	Metallurgy and Phase Transformations	Atom probe characterization of strengthening effects in the superalloy 718	Felix Theska	48
11:30 AM	Lunch	11:30 AM	Break			
11:45 AM	Lunch	11:45 AM	Break			
12:00 PM	Lunch	12:00 PM	Break			
12:15 PM	Lunch	12:15 PM	Break			
12:30 PM	Lunch	12:30 PM	Break			
12:45 PM	Lunch	12:45 PM	Break			
1:00 PM		1:00 PM	Metallurgy and Phase Transformations	Direct observation of niobium segregation to dislocations in steel	Jun Takahashi	19
1:15 PM		1:15 PM	Metallurgy and Phase Transformations	Atomic scale analysis on retardation of recrystallization of work-hardened austenite in V-added low alloy high carbon steel	Yukiko Kobayashi	170
1:30 PM		1:30 PM	Metallurgy and Phase Transformations	Analyzing Boron in 9–12% Chromium Steels Using Atom Probe Tomography	Fang Liu	167
1:45 PM		1:45 PM	Metallurgy and Phase Transformations	The Segregation Features at Grain Boundaries with Various Characters in Highly Twinned Alloy 690	Hui Li	30
2:00 PM		2:00 PM	Metallurgy and Phase Transformations	APT and STEM analysis of a metallic nuclear fuel to reveal the influence of grain boundary segregation on kinetics of discontinuous precipitation	Arun Devaraj	124
2:15 PM		2:15 PM	Metallurgy and Phase Transformations	Nanoscale analysis of ion irradiated 14YWTi ODS steel	Maria A. Auger	41
2:30 PM		2:30 PM	Metallurgy and Phase Transformations	Understanding Behavior and Performance of Nuclear Fuels via Atom Probe Tomography	Mukesh Bachhav	55
2:45 PM		2:45 PM	Metallurgy and Phase Transformations	Atom Probe Tomography as a Nuclear Forensics tool – Analysing Nanoparticulate Material from the Fukushima Region of Japan	Tomas Martin	189
3:00 PM		3:00 PM	Break			
3:15 PM		3:15 PM	Break			
3:30 PM		3:30 PM	Metallurgy and Phase Transformations	Elemental partitioning and site occupation of Mo and Cr in Co-Ti based superalloys	Hyeji Im	9
3:45 PM		3:45 PM	Metallurgy and Phase Transformations	Atom Probe Investigations of the Miscibility of Cu and Ni	Rüya Duran	190
4:00 PM		4:00 PM	Metallurgy and Phase Transformations	Superficial Enrichment in Gold/Silver Alloys: Study of the Physicochemical Influences Using Atom Probe Tomography	Natalia Gilis	67
4:15 PM		4:15 PM	Metallurgy and Phase Transformations	Direct Observations of Atomic Hydrogen and Deuterium Interactions in Zircaloy-4	Andrew Breen	60
4:30 PM		4:30 PM	Metallurgy and Phase Transformations	Investigating the Effects of Oxygen and Nitrogen on Titanium alloys for Turbine Engine applications	Hazel Gardner	13
4:45 PM		4:45 PM	Metallurgy and Phase Transformations	Atom Probe Characterization of Thermally-Grown Oxides Formed on Nickel Based Superalloys	Mark Thomas Lapington	40
5:00 PM	Departure	5:00 PM				
5:15 PM	Departure	5:15 PM				
5:30 PM	Departure	5:30 PM				
5:45 PM	Departure	5:45 PM				
6:00 PM	Departure	6:00 PM				
6:15 PM		6:15 PM				
6:30 PM		6:30 PM				
6:45 PM		6:45 PM				
7:00 PM		7:00 PM				