

MEETING ORGANIZERS



ITM General Chair
Dr. Andrey Soloviev
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ITM Program Chair
Dr. Sabrina Ugazio
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PTTI Program Chair
Dr. Daphna Enzer
Jet Propulsion Laboratory



PTTI Tutorials Chair
Dr. Josef Vojtech
CESNET

PROGRAM OVERVIEW

ITM/PTTI Pre-Conference Tutorials

Monday, Jan. 22	9:00 a.m.-10:30 a.m.	Dr. Franklyn Quinlan	Optically Derived Ultrastable Microwaves
	10:45 a.m.-11:45 a.m.	Dr. Judith Olson	Optical Atomic Clocks: Past, Present, and Future
	11:45 a.m.-1:00 p.m.	<i>Lunch Break</i>	<i>Buffet luncheon for tutorial attendees</i>
	1:00 p.m.-2:00 p.m.	Dr. Patrizia Tavella	Building the Coordinated Universal Time
	2:15 p.m.-3:15 p.m.	Dr. Doug Arnold	Introduction to IEEE 1588 - The Precision Time Protocol (PTP)
	3:15 p.m.-4:15 p.m.	Ivan Burenkov	Synchronization and Coexistence in Quantum Networks

ITM/PTTI Technical Sessions

	ITM Track A	ITM Track B	PTTI Track
Tuesday, Jan. 23	10:00 a.m.–4:00 p.m. Exhibit Hall Open		
	9:00 a.m.–12:15 p.m. ITM/PTTI Plenary Session		
	12:15 p.m.–1:15 p.m. Attendee Lunch Buffet Served		
	1:45 p.m. - 5:30 p.m. A1: PNT Solutions for Space Applications	1:45 p.m. - 3:25 p.m. B1a: GNSS Integrity and Augmentation	1:45 p.m. - 3:25 p.m. P1a: Updates from Regulatory Agencies and Institutions Working with NMI's
		3:55 p.m. - 5:30 p.m. B1b: Precise GNSS Positioning and Applications	3:55 p.m. - 5:30 p.m. P1b: Activities at National Metrology Laboratories
5:30 p.m.–6:30 p.m. ITM/PTTI Student Social Event (exclusively for attendees registered as students)			
Wednesday, Jan. 24	10:00 a.m.–4:00 p.m. Exhibit Hall Open		
	8:30 a.m. - 12:15 p.m. A2: Next Generation Satellite Navigation Technology	8:30 a.m. - 10:05 a.m. B2a: Autonomous and Safety-Critical Applications	8:30 a.m. - 10:05 a.m. P2a: Time Transfer Over Comms and Unconventional Methods
		10:35 a.m. - 12:15 p.m. B2b: Navigation of Unmanned Aerial Vehicles	10:35 a.m. - 12:15 p.m. P2b: Time and Frequency Transfer Supporting 1E-18 Clock Comparisons
	12:15 p.m.–1:15 p.m. Attendee Lunch Buffet Served		
	1:45 p.m. - 5:30 p.m. A3: GNSS Remote Sensing, Atmospheric Effects, and Scientific Applications	1:45 p.m. - 5:30 p.m. B3: Sensor-Fusion for GNSS-Challenged Navigation	1:45 p.m. - 3:25 p.m. P3a: LEO Satellite Timing Requirements and Applications
		3:55 p.m. - 5:30 p.m. P3b: Timekeeping for Quantum Networking and Other Science Applications	
Thursday, Jan. 25	8:30 a.m. - 12:15 p.m. A4: GNSS Security: Jamming and Spoofing 1	8:30 a.m. - 12:15 p.m. B4: Receiver Design, Signal Processing, and Antennas	8:30 a.m. - 10:05 a.m. P4a: Methods and Algorithms for Timing Applications and Timescales
			10:35 a.m. - 12:15 p.m. P4b: GNSS Systems Timing Architectures and Capabilities
	12:15 p.m.–1:45 p.m. Awards Luncheon - Late arrivals will not be served after 12:30 p.m.		
	1:45 p.m. - 3:25 p.m. A5a: GNSS Security: Jamming and Spoofing 2	1:45 p.m. - 3:25 p.m. B5a: Innovative Navigation Algorithms	1:45 p.m. - 3:25 p.m. P5a: Present and Future Clocks for Space
	3:30 p.m. - 4:55 p.m. A5b: Applications of Multi-GNSS Measurements from Smartphones	3:30 p.m. - 4:55 p.m. B5b: Ubiquitous Multi-Source Fusion Navigation Technology and Positioning Integrity	3:30 p.m. - 4:55 p.m. P5b: Advanced and Future Clocks