

2025 Space Physics Program Review

Dr. Julie Moses | January 28-30, 2025 | Albuquerque, NM

AFRL Innovation Lab at the UNM Science & Tech Park
801 University Blvd. SE | Albuquerque, NM 87106
The review will take place in the Upper-Level Auditorium

Agenda Day 1 | January 28, 2025

Time	Topic	Speaker
8:45	Check in/ Log on	
0900	Welcome and AFOSR News	Julie Moses, AFOSR
0915	Global Ionospheric Processes	Kenneth Obenberger AFRL/RV
0945	A Unified Lower Ionospheric Space Diagnostic	Morris Cohen, surrogate Georgia Tech
1015	Investigation of the Longitudinal Dependence of Ionospheric Density Distributions	Endawoke Yizengaw, The Aerospace Corp
1045	BREAK	
1100	Diagnostics of Natural and Manmade Events over Ukraine	Larisa Goncharenko, MIT Haystack
1130	Modeling Plasmasphere Structure: Ducts and Irregularities	Joe Huba, Syntek, Inc.
1200	LUNCH	
1300	Understanding the Effects of Energy Input from the Solar Wind to the Thermosphere-Ionosphere System	Russell Landry, AFRL/RV
1330	Modelling Substorm Effects on the Upper Atmosphere Using High-Cadence Forcing from Ground-Based Observations	Cheng Sheng, UTA
1400	Meso-Scale Coupling from the Polar Cap to the Nightside Auroral Oval	Larry Lyons, UCLA
1430	The Impacts of Transient Gradients in Eclipse Occultation on the Whole Atmosphere	Sebastian Mrak, JHU/APL
1500	BREAK	
1515	Vertical Coupling in the low-latitude atmosphere due to Global Scale Waves and their Nonlinear Interactions	Federico Gasparini, Orionspace
1545	Understand and Forecast Killer Electrons (Via Zoom)	Xiangning Chu, CU-Boulder
1615	Analysis of Demonstration and Science Experiment Observations	Jay Albert, AFRL/RV

1645	ADJOURN FOR THE DAY
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Agenda Day 2 Wednesday, January 29, 2025		
Time	Topic	Speaker
8:45	Check in/ Log on	
0900	Preparing Today to use Polarimetry for Tomorrow's Space Weather Forecasting	Curt DeKoning, CU-Boulder
0930	The Early Chromospheric Dynamics of Solar Energetic Events	KD Leka, NWRA
1000	ADAPT Multisource Ensemble Modeling	Sam Schoenfeld, AFRL/RV
1030	BREAK	
1045	Investigating Propagation Characteristics of Ground Transmitter Signals	Lunjin Chen, UTD
1115	MHD-Test Particle Simulations of 10 May CME-Shock Injection of Radiation Belt Electrons and Protons	Mary Hudson, Dartmouth
1145	LUNCH	
1300	Statistical Studies of High-Power Whistler Wave Transmissions from a Space-Born Transmitter	Paul Song, U Mass - Lowell
1330	Nonlinear Magnetosphere-Ionosphere Interactions in the Sub-Auroral Zone (via Zoom)	Anatoly Streltsov, Embry-Riddle
1400	Understanding VHF Intense Processes in Lightning (via Zoom)	Ningyu Lu, U – New Hampshire
1430	BREAK	
1445	Thermospheric Wind around the Cusp (Via Zoom)	Yu Zing, JHU/APL
1515	High-latitude electrodynamics via assimilation of ionospheric plasma densities (via Zoom)	Seebany Datta-Barua, IIT
1545	ADJOURN FOR THE DAY	