CSL AGU Presentation Schedule 2024

Italics represent former students/guests/employees of NOAA

Presentation Date	Presenter Name	Presentation Title	Presentation Length (EST)	Session Time (EST)	Session Number	Session Title	Presentation Type	Room Number
			MONDAY	12.9.24				
12/9/24	Becky Schwantes	Session Chair (N/A)	8:30 - 10:00	8:30 - 10:00	A11A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns I	Oral	Washington Convention Center, 154 A-B
12/9/24	Ewa Bednarz	Stratospheric Aerosol Injection could prevent future Atlantic Meridional Overturning Circulation decline but injection location is key (Session Chair)	8:30 - 12:20	8:30 - 12:20	GC11G	Advances in Climate Engineering Science I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Chia-Hua Hsu	Intercomparison of top-down estimates of anthropogenic and soil NOx emissions using TEMPO and TROPOMI NO2 remote sensing observations in the U.S.	8:30 - 12:20	8:30 - 12:20	A11M	Constellation of Satellites for Atmospheric Composition and Air Quality I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Han Huynh	Evaluation of In Situ Aerosol Composition and Optical Properties Measurements from the 2023 AEROMMA Airborne Field Mission to Validate and Improve Satellite Data Products	8:30 - 12:20	8:30 - 12:20	A11I	Advances in the Integrated Global Observing System for Air Quality: Science and Societal Benefit I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Drew Rollins	Evaluation of TEMPO V03 retrievals of nitrogen dioxide and formaldehyde using in-situ observations from the NASA DC-8 during AEROMMA	8:30 - 12:20	8:30 - 12:20	A11I	Advances in the Integrated Global Observing System for Air Quality: Science and Societal Benefit I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Carsten Warneke	The Atmospheric Emissions and Reactions Observed from Megacities to Marine Areas (AEROMMA) urban field campaign	8:40 - 8:50	8:30 - 10:00	A11A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns I	Oral	Washington Convention Center, 154 A-B
12/9/24	Ann Middlebrook	The Impact of Aged Canadian Wildfire Smoke on Measurements of Organic Aerosol Particles over Chicago, Detroit, Toronto, and New York City during the 2023 Atmospheric Emissions and Reactions Observed from Megacities to Marine Areas (AEROMMA) Study	9:21 - 9:33	8:30 - 10:00	A11G	Wildfire Smoke in North America: Distribution, Health, and Policy Implications I	Oral	Washington Convention Center, 152 A
12/9/24	Becky Schwantes	Session Chair (N/A)	10:20 - 11:50	10:20 - 11:50	A12A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns II	Oral	Washington Convention Center, 154 A-B

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12/9/24	Chelsea Stockwell	Leveraging Recent Field Measurements to Elucidate the Emissions, Chemistry, and Atmospheric Impacts from Non- traditional Anthropogenic Sources	10:20 - 10:30	10:20 - 11:50	A12A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns II	Oral	Washington Convention Center, 154 A-B
12/9/24	Caroline Womack	Observations and Initial Findings from the 2024 Utah Summer Ozone Study (USOS)	10:50 - 11:00	10:20 - 11:50	A12A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns II	Oral	Washington Convention Center, 154 A-B
12/9/24	Adam Ahern	Direct measurements of the aerosol scattering phase function from fresh and aged wildfire smoke	13:40 - 17:30	13:40 - 17:30	A002	Accelerating our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/9/24	Chuck Brock	Aerosol Properties in California's Central Valley During AEROMMA 2023	13:40 - 17:30	13:40 - 17:30	A13A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns III	Poster	Washington Convention Center, Hall D (Poster Hall)
12/9/24	Becky Schwantes	Evaluating Air Quality Models with the AEROMMA Dataset Using the New MELODIES MONET Model Evaluation Tool	13:40 - 17:30	13:40 - 17:30	A13A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns III	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Chris Senff	Ozone Transport and Distribution Along the Northern Shore of the Long Island Sound Observed with Ozone and Wind Lidars	13:40 - 17:30	13:40 - 17:30	A13A	Accelerating Our Understanding of Summertime Urban Air Quality and Greenhouse Gases Using Data from the Last Decade of Field Campaigns III	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/9/24	Ewa Bednarz	Session Chair (N/A)	14:10 - 15:40	14:10 - 15:40	GC13U	Advances in Climate Engineering Science II	Oral	Washington Convention Center, Salon G
12/9/24	Ewa Bednarz	Session Chair (N/A)	16:00 - 17:30	16:00 - 17:30	GC14A	Advances in Climate Engineering Science III	Oral	Washington Convention Center, Salon G
12/9/24	Shuka Schwarz	Intentional Stratospheric Dehydration - zeroth-order evaluation and first-order questions	16:30 - 16:40	16:00 - 17:30	GC14A	Advances in Climate Engineering Science III	Oral	Washington Convention Center, Salon G
			TUESDAY 1	12.10.24				
12/10/24	John Daniel	Session Chair (N/A)	8:30 - 12:20	8:30 - 12:20	GC21S	Limiting Global Warming Overshoot: Earth and Human System Impact Assessments to Inform Explicit Target Setting	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/10/24	Daun Jeong	Elevated Gas Phase Cl2 above the Remote Marine Boundary Layer during ATom-3,4	8:30 - 12:20	8:30 -12:20	A21H	General Atmospheric Chemistry, Urban Winter Air Quality, and Constraints on Atmospheric Oxidation Capacity IV	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/10/24	Shuka Schwarz	The atmosphere's "fingerprint access" control of aerosol transport to the polar stratosphere	13:15 - 13:30	N/A	N/A	N/A	Oral	NOAA Booth

12/10/24	Steve Brown	The 2024 Airborne and Remote Sensing Methane and Air Pollutant Surveys (AiRMAPS) Campaign in Colorado and Utah	13:40 - 17:30	13:40 - 17:30	SY23D	Providing Accessible and Credible Greenhouse Gas Information from the U.S. Government and Partners to Meet User Needs II	Poster	Washington Convention Center, Hall D (Poster Hall)
12/10/24	Claire Granier	Surface emissions at the global and regional scales for air quality forecasts and reanalyses during the past two decades	13:40 - 17:30	13:40 - 17:30	GC23F	Improvements in Regional and Global Air Pollutant and GHG Emissions Inventories II	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/10/24	Audrey Gaudel	Multi-scale quantification of air quality in New York City	13:40 - 17:30	13:40 - 17:30	A23H	Interdisciplinary Community- Engaged Research to Tackle Environmental Injustice: Focus on Air Inequity	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/10/24	Congmeng Lyu	The U.S. GReenhouse gas And Air Pollutants Emissions System (GRA2PES)	13:40 - 17:30	13:40 - 17:30	SY23D	Providing Accessible and Credible Greenhouse Gas Information from the U.S. Government and Partners to Meet User Needs II	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/10/24	Jian He	Investigating methane and ethane emissions from US oil and natural gas industry	13:40 - 17:30	13:40 - 17:30	A23B	Emissions and Air Quality Impacts of Atmospheric Pollutants from Oil, Gas, and Coal Operations I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
		w	EDNESDAY 12.11	.24				
12/11/24	Yaosheng Chen	Dependence of LWP adjustment slope on droplet number concentration	8:30 - 12:20	8:30 - 12:20	A31B	Advances in Cloud and Precipitation Processes: Integrating Observations, Modeling, and Theory I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/11/24	Jianhao Zhang	Unraveling the striking difference in causal low-cloud susceptibility to aerosol between GCM and observation	8:30 - 12:20	8:30 - 12:20	A31B	Advances in Cloud and Precipitation Processes: Integrating Observations, Modeling, and Theory I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/11/24	Greg Frost	Session Presenter (N/A)	12:30 - 13:30	12:30 - 13:30	TH33C	GeoXO Town Hall: Preparing for Geostationary Satellite Observations of the Future	Town Hall	Washington Convention Center, 209 A-C
12/11/24	Zach Decker	Detailed in-situ observations of stratospheric N2O5 constrain stratospheric heterogeneous chemistry and its influence on ozone	14:31 - 14:34	14:10 - 15:40	A33M	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation I	eLightning	Washington Convention Center, eLightning Theater 1
12/11/24	Jianhao Zhang	Large radiative forcing from the 2020 shipping fuel regulation is hard to detect	16:50 – 17:00	16:00 – 17:30	A34D	Boundary Layer Clouds and Climate Change II	Oral	Washington Convention Center, 202 A
		Т	HURSDAY 12.12.2	24				
12/12/24	Sunil Baidar	Improving Urban Greenhouse Gas Emission Estimates from Mass Balance Method using Airborne Doppler Lidar Measurements	8:30 - 12:20	8:30 - 12:20	A41N	New Developments in Urban Greenhouse Gas Emissions Quantification II	Poster	Washington Convention Center, Hall D (Poster Hall)
12/12/24	Alex Baron	Stratospheric Aerosol layer responses to volcanic and wildfire perturbations	8:30 - 12:20	8:30 - 12:20	A41U	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation III	Poster	Washington Convention Center, Halls B-C (Poster Hall)

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12/12/24	Dillon Elsbury	The influence of major sudden stratospheric warmings on longitudinally resolved tracer distributions	8:30 - 12:20	8:30 - 12:20	A41Q	Stratospheric Dynamics, Aerosol Processes, and Interactions with the Troposphere I	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/12/24	Jake Gristey	Session Chair (N/A)	8:30 - 10:00	8:30 - 10:00	A41D	The Spectral Dimension of Shortwave and Longwave Radiation in the Earth System I	Oral	Washington Convention Center, 201
12/12/24	Chris Maloney	Modeling the atmospheric transport and potential radiative impact of alumina aerosols emitted from the coming increase in satellite reentry frequency	8:30 - 10:00	8:30 - 10:00	A41F	Spaceflight and Earth's Atmosphere: How the Coming Era of Larger and More Frequent Rocket Launches and Space Debris Reentries Could Affect Global Climate, Ozone, High-Altitude Clouds, Airglows, and Space Weather II	eLightning	Washington Convention Center, eLightning Theater 1
12/12/24	Drew Rollins	Evaluating reactive nitrogen and sulfur as secondary aerosol precursors in the Asian Summer Monsoon Anticyclone using insitu airborne observations	8:30 - 12:20	8:30 - 12:20	A41U	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation III	Poster	Washington Convention Center, Halls B-C (Poster Hall)
12/12/24	Karen Rosenlof	Rocket launches and satellite re-entry: Initial findings and the need for observational constraints given projections of a rapidly increasing number of Low Earth Orbit large satellite constellations	8:30 - 10:00	8:30 - 10:00	A41F	Spaceflight and Earth's Atmosphere: How the Coming Era of Larger and More Frequent Rocket Launches and Space Debris Reentries Could Affect Global Climate, Ozone, High-Altitude Clouds, Airglows, and Space Weather II	eLightning	Washington Convention Center, eLightning Theater 1
12/12/24	Dan Murphy	Impacts of Spacecraft Reentry on the Stratosphere	8:56 - 8:59	8:30 - 10:00	A41F	Spaceflight and Earth's Atmosphere: How the Coming Era of Larger and More Frequent Rocket Launches and Space Debris Reentries Could Affect Global Climate, Ozone, High-Altitude Clouds, Airglows, and Space Weather II	eLightning	Washington Convention Center, eLightning Theater 1
12/12/24	Eshkol Eytan	Cloud Radiative Effects in "Clear Sky": From Spectral High-resolution Radiance to Broadband Fluxes	10:50 - 11:00	10:20 - 11:50	A42A	Advances in Cloud and Precipitation Processes: Integrating Observations, Modeling, and Theory II	Oral	Washington Convention Center, 201
12/12/24	Greg Frost	Primary Contact/Presenter (N/A)	12:30 - 13:30	12:30 - 13:30	TH43B	U.S. Federal Marine Carbon Dioxide Removal Research and Coordination	Town Hall	Mariott Marquis, Liberty I-K
12/12/24	Jake Gristey	Generation of "split-shortwave" Irradiance for Future Libera Earth Radiation Budget Satellite Observations	13:40 - 17:30	13:40 - 17:30	A43N	The Spectral Dimension of Shortwave and Longwave Radiation in the Earth System II	Poster	Washington Convention Center, Hall B-C (Poster Hall)
12/12/24	Jianhao Zhang	Session Chair (N/A)	14:10 - 15:40	14:10 - 15:40	A43O	Advances in Cloud and Precipitiation Processes: Integrating Oservations, Modeling, and Theory III	Oral	Washington Convention Center, 201

						The Spectral Dimension of		Washington
12/12/24	Jake Gristey	Session Chair (N/A)	16:00 - 17:30	16:00 - 17:30	A44I	Shortwave and Longwave	eLightning	Convention Center,
						Radiation in the Earth System III		eLightning Theater 1
		Cloud Radiative Effects in "Clear Sky":				The Spectral Dimension of		Washington
12/12/24	Eshkol Eytan	From Spectral High-resolution Radiance	16:12 - 16:15	16:00 - 17:30	A441	Shortwave and Longwave	eLightning	Convention Center,
		to Broadband Fluxes				Radiation in the Earth System		eLightning Theater 1
			FRIDAY 12.13.24					
						Stratospheric Dynamics, Aerosol		Washington
12/13/24	Dillon Elsbury	Session Chair (N/A)	8:30 - 10:00	8:30 - 10:00	A51F	Processes, and Interactions with	Oral	Convention Center,
,,	,	(.,,,				the Troposphere II		Ballroom C
		Tracking Tropospheric/Stratospheric				Stratospheric Dynamics, Aerosol		Washington
12/13/24	Shuka Schwarz	transport with measurements of an inert	8:40 - 8:50	8:30 - 10:00	A51F	Processes, and Interactions with	Oral	Convention Center,
12/13/24	STIGKA SCIIWAIZ	aerosol tracer	0.40 0.50	0.30 10.00	ASII	the Troposphere II	Olai	Ballroom C
		Kinetic modeling of SOA processes in				Advancing Understanding of		Balliooni C
		WRF-Chem: Emerging SOA processes in				Volatile Organic Compounds:		Washington
12/13/24	Quazi Rasool		9:20 - 9:30	8:30 - 10:00	A51A-06	Integrating Modeling and	Oral	Convention Center,
		and application to air quality in Los						154 A-B
		Angeles				Measurement Approaches I		
						Understanding Land-Atmosphere		
		An Apparent Lack of Impact of Cloud				Interactions: The Role of Surface		Washington
12/13/24	Jake Gristey	Shadows on Continental Shallow	9:41 - 9:51	8:30 - 10:00	A51I	Fluxes, Boundary Layer Processes,	Oral	Convention Center,
		Cumulus Cloud Evolution				and the Free Atmosphere I		151 B
						·		
						Upper Troposphere, Stratosphere,		Washington
12/13/24	Eric Ray	Session Chair (N/A)	10:20 - 11:50	10:20 - 11:50	A52H	and Mesosphere: Chemistry,	Oral	Convention Center,
,, _ :		(.,,,				Dynamics, Transport, and		Ballroom C
						Radiation IV		546
		Influence of Aerosol-Cloud Interactions				Atmospheric Aerosols and Their		Washington
12/13/24	Tak Yamaguchi	on Dynamical and Radiative Properties of	11:05 - 11:15	10:20 - 11:50	A52A	Interactions with Clouds, Radiation,	Oral	Convention Center,
		the Hadley Circulation				and Climate II		201
						Presenting the World Climate		
						Research Programme's Lighthouse		
						Activity for Research on Climate		Marriot Marquis, 12
12/13/24	Karen Rosenlof	Session Presenter (N/A)	12:30 - 13:30	12:30 - 13:30	TH53D	Intervention: Identifying Goals,	Town Hall	13
						Timelines, and Outcomes and		13
						· ·		
						Obtaining Community Feedback		
						Advancing Understanding of	<u> </u>	Machineter
12/12/24	M!:	Speciated NMVOC emission trends in	12:40 47:20	12:40 47:20	A53C	Volatile Organic Compounds:	Doct	Washington
12/13/24	Meng Li	Asia since 2010	13:40 - 17:30	13:40 - 17:30	ASSC	Integrating Modeling and	Poster	Convention Center
						Measurement Approaches II		Halls B-C (Poster Hal
		Measuring Liquid-phase Reaction Rates						3471.
40/4-1		of Atmospheric Interest by On-Line				Laboratory Studies amd Chemical	_	Washington
12/13/24	James Roberts	Chemical Ionization Mass Spectometry	13:40 - 17:30	13:40 - 17:30	A53L	Syntheses in Atmospheric	Poster	Convention Center,
		(CIMS)	1			Sciences: Join Session II		Halls B-C (Poster Hall
		How well are we achieving closure on				Light-Absorbing Carbon Aerosols:		Washington
12/13/24	Shuka Schwarz	carbonaceous aerosol light absorption in	14:10 - 14:20	14:10 - 15:40	A53W	Observations, Models, Processes,	Oral	Convention Center,
,,		biomass burning smoke?				and Impacts III	-101	151B
						Upper Troposphere, Stratosphere,		
		Novel Chlorine Chemistry in Biomass	1	1		and Mesosphere: Chemistry,		Washington
12/13/24	Dan Murphy	Burning Particles That Reach the	14:30 - 14:40	14:10 - 15:40	A53Z	Dynamics, Transport, and	Oral	Convention Center,
		Stratosphere						Ballroom C
						Radiation V		

12/13/24	Mike Lawler	Composition and stratospheric processing of aerosol originating in the polar vortex	14:40 - 14:50	14:10 - 15:40	A53Z	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation V	Oral	Washington Convention Center, Ballroom C
12/13/24	Gregg Schill	The Asian Tropopause Aerosol Layer is Dominated by Secondary Aerosol	14:50 - 15:00	14:10 - 15:40	A53Z	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation V	Oral	Washington Convention Center, Ballroom C
12/13/24	Eric Ray	Detecting multi-decadal changes in the Brewer-Dobson circulation from in situ trace gas measurements and idealized modeling	16:00 - 16:10	16:00 - 17:30	A54J	Upper Troposphere, Stratosphere, and Mesosphere: Chemistry, Dynamics, Transport, and Radiation VI	Oral	Washington Convention Center, Ballroom C