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**Community Earth
System Model**

Software Engineering Working Group Agenda 31st Annual CESM Workshop June 17th, 2026

Wednesday, June 17th, 1 - 4:00 pm

** All times are MDT; Speakers: 15 min talk, please leave 3 min at the end of your slot for questions.*

Time	Topic	Speakers	Organization
1:00	Introduction / Welcome	Ligia Bernardet and Mike Levy	
1:15	The NSF NCAR Community Software Facility: partnering to support our community models	Sheri Voelz	NSF NCAR
1:30	Addressing Core Modeling Infrastructure Barriers in Next-Generation Weather Model Development: A UFS perspective	Daniel Sarmiento (remote)	NOAA Environmental Modeling Center
1:45	Unifying Atmospheric Composition in the Unified Forecast System Through Developing the CATChem and CECE Chemistry and Emission Components	Rebecca Schwantes	NOAA Chemical Sciences Laboratory
2:00	Update on the TURBO project	John Dennis (remote)	NSF NCAR
2:15	CrocoDash: Releasing v1.0 for Streamlining Regional MOM6 Configurations in CESM	Manish Venumuddula	NSF NCAR
2:30	BREAK		
3:00	Parameterizing the Impact of Subgrid-Scale Air-Sea Heat Fluxes in Climate Models	Prani Nalluri (remote)	Lamont-Doherty Earth Observatory
3:15	LAFT: An LLM-Assisted Framework for Translating Legacy Fortran Atmospheric Physics to GPU-Accelerated JAX	Iris Linck (remote)	NSF NCAR
3:30	Building A Multi-LLM-Agent System for CESM Rewriting	Yueqi Chen	University of Colorado Boulder
3:45	Utilizing CAM Fortran physics in the E3SM C++ Atmospheric model: evaluating the feasibility of language interoperability for atmospheric modeling	Ren Stengel	NSF NCAR