

CESM Software Engineering Working Group

2024 Winter Working Group Meeting

Co-chairs:

Bill Sacks (NSF NCAR)
Ligia Bernardet (NOAA)

CSEG Head &
lead organizer:

Brian Dobbins (NSF NCAR)



Post-Meeting Social Gathering

We hope you can join us after the meeting for a Happy Hour social gathering of the SEWG:

4:15 pm at Under the Sun

(627 S. Broadway, Boulder

– at the intersection of Broadway & Table Mesa Dr.)

Code of Conduct

NCAR | NATIONAL CENTER FOR
ATMOSPHERIC RESEARCH

Here we value respectful dialogue, please...



www.cgd.ucar.edu/diversity

Agenda – Morning

Time	Topic / Title	Speaker
9:00	Welcome	Bill Sacks & Ligia Bernardet
9:10	Expanding the UFS to Multiple Dynamical Cores: Opportunities and Challenges	Dom Heinzeller
9:30	ESMF Updates & Plans	Ann Tsay
9:50	CCPP Framework: An Overview	Courtney Peverley
10:10	Unified Workflow: A Toolbox and Framework for NWP Systems	Christina Holt
10:30	BREAK	
10:50	VS Code and You: Why You Should Make Your Computer Work For You (and How!)	Adrianna Foster & Sam Rabin
11:10	VS Code Demo	Sam Rabin & Adrianna Foster
11:30	Using GitHub Copilot in VS Code	Supreeth Suresh
11:50	Lunch (ML Cafeteria)	

Agenda – Afternoon

Time	Topic / Title	Speaker
1:00	CUPiD: CESM Unified Postprocessing and Diagnostics	Teagan King & Mike Levy
1:20	How to Write New, Old Code: Implementing Legacy NCL Routines in the Python Ecosystem	Anissa Zacharias
1:40	LEAP: Current Microphysics Efforts & Future Plans	Wayne Chuang
2:00	AI/ML Efforts in CESM Using Python	Will Chapman
2:20	BREAK	
2:40	CAM-CLUBB Integration Workflow	Kate Thayer-Calder
3:00	CLUBB GPUization and Performance Portability	Gunther Huebler
3:20	Ensemble Consistency Tests for ESM Development	Allison Baker
3:40	Wrap-up Discussion	Bill Sacks & Ligia Bernardet
4:00	ADJOURN (Optional post-meeting social gathering at Under the Sun)	

