Thurs. Nov. 9

8:30 – 8:40	**WELCOME AND OPENING REMARKS**	
8:40 – 9:40	**KEYNOTE**: Title TBD	*Steve Easterbrook* School of the Environment and Department of Computer Science, University of Toronto
9:40 – 10:00	**TALK:** Component Level Regression Testing in a Hierarchical Architecture	*Thomas Clune* NASA Goddard Space Flight Center
10:00 – 10:20	**TALK:** High Performance Climate and Weather Benchmark (HPCW): a framework for reproducible benchmarks of ESM models and mini-applications.	*David Guibert** Center for Excellence in Performance Programming, Eviden
10:20 – 10:50	**BREAK**	coffee, tea, light snacks
10:50 – 11:10	**TALK:** Correctness Challenges in HPC and ML	*Harvey Dam, Ganesh Gopalakrishnan* Department of Computer Science, University of Utah
11:10 – 11:30	**TALK:** Reliable and reproducible Earth System Model data analysis with ESMValTool	*Valeriu Predoi** NCAS-CMS, University of Reading
11:30 – 11:50	**TALK:** Testing approach for porting legacy 4-mode Modal Aerosol Model (MAM4) to C++/Kokkos	*Balwinder Singh* Atmospheric Sciences and Global Change Division, Pacific Northwest National Laboratory
11:50 – 12:10	**TALK:** Verification of the ICON model with the GT4Py dycore - challenges and insights	*Abishek Gopal** Institute for Atmospheric and Climate Science, ETH Zurich
12:10 – 1:10	**LUNCH**	Mesa Lab cafeteria (Included with registration)
1:10 – 2:10	**KEYNOTE**: Earth system models of the future	*Peter Dueben** Earth System Modelling Section, European Centre for Medium Range Weather Forecasts (ECMWF)
2:10 – 2:30	**TALK:** A Theory of Scientific Programming Efficacy	*Michael Coblenz* Department of Computer Science, UC San Diego
2:30 – 2:50	**TALK:** An overview of the MOM6 development cycle	*Marshall Ward* Geophysical Fluid Dynamics Lab, NOAA
2:50 – 3:20	**BREAK**	Beverages and light snacks
3:20 – 3:40	**TALK:** Challenges in Ensuring Reproducibility for Machine Learning Weather Model Training and Deployment	*David John Gagne* Computational and Information Systems Lab, NCAR
3:40 – 4:00	**TALK:** METplus: The Long and Winding Road to Unified Verification	*Tara Jensen** Research Applications Lab, NCAR
4:00 – 4:20	**TALK:** Unit Testing NCEPLIBS	*Edward Hartnett* CIRES/NOAA
4:20 – 5:00	**OPEN DISCUSSION**	All

*Indicates speaker is remote

Fri. Nov. 10

8:30 – 9:30	**KEYNOTE:** Lightweight Formal Methods: The What, Why, and How	*John Baugh* Civil Engineering and Operations Research, North Carolina State University
9:30 – 9:50	**TALK:** What could the next 30 years of software verification in climate science look like?	*Dominic Orchard** Department of Computer Science and Technology, University of Cambridge and School of Computing, University of Kent
9:50 – 10:10	**TALK:** Parallel reproducibility of the SHYFEM-MPI model	*Francesco Carere** Euro Mediterranean Center on Climate Change Foundation (CMCC Foundation)
10:10 – 10:40	**BREAK**	coffee, tea, light snacks
10:40– 11:40	**KEYNOTE**: Title TBD	*Dorit Hammerling* Applied Mathematics and Statistics, Colorado School of Mines
11:40 – 12:00	**TALK:** Ensure the correctness and reproducibility in UFS Weather Model CI	*Jun Wang* NOAA NWS/EMC
12:00 – 12:20	**TALK:** Methods and Tools for the Application of UF-ECT to New Climate Models	*Teo Price-Broncucia* Department of Computer Science, University of Colorado Boulder
12:20 – 1:20	**LUNCH**	Mesa Lab cafeteria (Included with registration)
1:20 – 1:40	**TALK:** Towards Ensuring Statistical Climate Reproducibility of Earth System Models in the Exascale Age	*Salil Mahajin* Computational Earth Sciences Group, Oak Ridge National Laboratory
1:40 – 2:00	**TALK:** Improvements in Reproducibility Testing Through False Discovery Rate Correction	Michael Kelleher Computational Earth Sciences Group, Oak Ridge National Laboratory
2:00 – 3:30	**PANEL:** Correctness and verification across platforms	Moderator: *Brian Dobbins*, NCAR Panelists: - *Ilene Carpenter*, Hewlett Packard Enterprise - *Karsten Peters-von Gehlen*, Deutsches Klimarechenzentrum GmbH (DKRZ) - *Ganesh Gopalakrishnan*, University of Utah - TBA
3:30 – 4:00	**BREAK**	Beverages and light snacks
4:00– 5:00	**CLOSING DISCUSSION**	All

*Indicates speaker is remote