Thurs, Nov. 9

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

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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 : Contained Chaos: Quality Assurance for the Community Earth System Model	Dorit Hammerling Applied Mathematics and Statistics, Colorado School of Mines
11:40 – 12:00	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
12:00 – 12:20	TALK: Ensure the correctness and reproducibility in UFS Weather Model CI	Jun Wang NOAA NWS/EMC
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

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