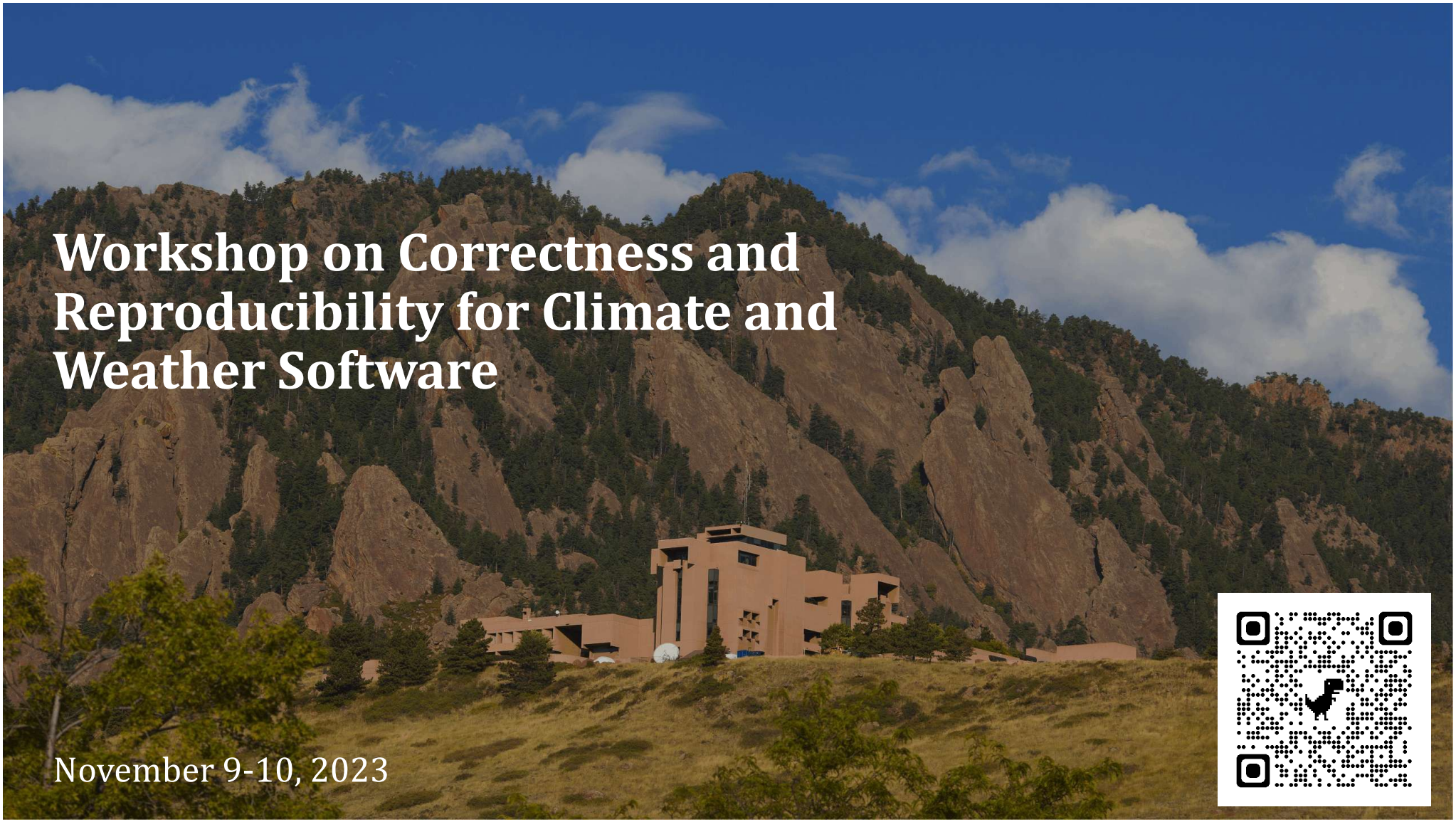
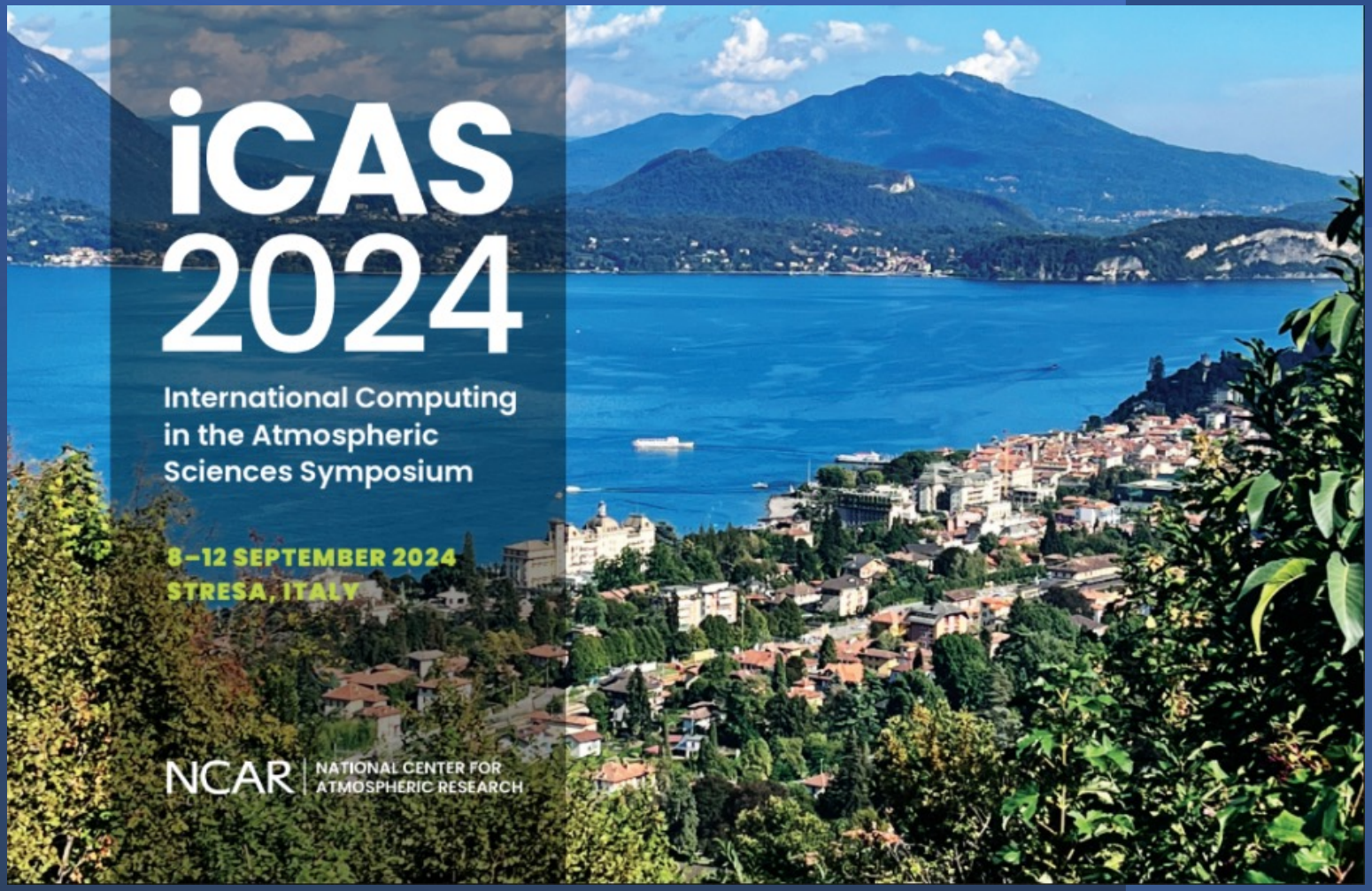

Workshop on Correctness and Reproducibility for Climate and Weather Software
November 9-10, 2023


iCAS
2024
International Computing
in the Atmospheric
Sciences Symposium
8–12 SEPTEMBER 2024
STRESA, ITALY
NCAR
NATIONAL CENTER FOR
ATMOSPHERIC RESEARCH

Friday Morning

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***	
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*

Friday Afternoon

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, Oakridge National Laboratory*
1:40 - 2:00	**TALK:** Improvements in Reproducibility Testing Through False Discovery Rate Correction	Michael Kelleher *Computational Earth Sciences Group, Oakridge National Laboratory*
2:00 - 3:30	**PANEL:** Correctness and verification across platforms **Panelists:** - Ilene Carpenter, Hewlett Packard Enterprise - Karsten Peters-von Gehlen, Deutsches Klimarechenzentrum GmbH (DKRZ) - Ganesh Gopalakrishnan, University of Utah - Aaron Donahue, Livermore National Laboratory **Moderator:** Brian Dobbins, NCAR	
3:30 - 4:00	***BREAK***	
4:00 - 5:00	***CLOSING DISCUSSION***	