

Agenda: iCAS Symposium 2019

Please see each day for specific information

- [Sunday](#)
- [Monday](#)
- [Tuesday](#)
- [Wednesday](#)
- [Thursday](#)

3:00-5:00pm Early Registration

5:00-7:00pm Welcome Reception

9:00am Welcome Coffee

9:45am Opening Remarks/Anke Kamrath

10:00am ["Present State and Future of Computing at ECMWF"](#)

[Martin Palkovič](#)

ECMWF

10:30am Break

11:00am ["NERSC 9: A Pre-Exascale System for Simulation, Data, and Learning"](#)

[Richard Gerber](#)

National Energy Research Scientific Computing Center

(NERSC)

11:30am Vendor- Cray

"Cray's Vision for converged architectures and emerging HPC technologies"

[Ilene Carpenter](#)

12:00pm Lunch

1:30pm Vendor- PGI

["PGI Compiler Assisted Software Testing"](#)

[Dave Norton](#)

2:00pm ["Applying Data Analytics and Machine Learning to Storage Systems to Help Meet Organizational Goals"](#)

[Bill Anderson](#)

NCAR

2:30pm ["The New Innovation Game: Rebooting Infrastructure for more productive Climate, Weather, Earth, and Environmental Systems Research"](#)

[Ben Evans](#)

National Computational Infrastructure (Australia)

3:00pm Break

3:30pm ["Data Assimilation using the US National Water Model: Application to Hurricane Florence"](#)

[Moha el Gharamti](#)

NCAR

4:00pm ["Pangeo: The quest to give scientists back their flow"](#)

- [Niall Robinson](#)
UK Met Office Informatics Lab
- 4:30pm "Climate modeling workflow at IPSL: Producing CMIP6 simulations & making sense of them"
[Sébastien Denvil](#)
Institute Pierre Simon Laplace (IPSL)
- 5:00pm Reception
- 8:00am Welcome Coffee
- 9:00am "[NCAR's CMIP6 Efforts](#)"
[Sheri Mickelson](#)
NCAR
- 9:30am "Ultra-high resolution supercell simulations visualized with Vapor 3"
[Leigh Orf](#)
University of Wisconsin
- 10:00am "[How to use deep learning in weather and climate models](#)"
[Peter Dueben](#)
European Centre for Medium-range Weather Forecasts
(ECMWF)
- 10:30am Break
- 11:00am Vendor-Mellanox
["InfiniBand In-Network Computing Technology for Compute Intensive Applications"](#)
[Richard Graham](#)
- 11:30am "Accelerating Improvements cycle in the climate modeling enterprise"
[Antonio Navarra](#)
Euro-Mediterranean Center for Climate Change (CMCC)
- 12:00pm "[Status of climate prediction and future challenges](#)"
[François Counillon](#)
Nansen Environmental and Remote Sensing Center
(NERSC)
- 12:30pm Afternoon off
- 2:00pm Bus leaves for Lake Orta Excursion
~4 hour excursion
- 8:00am Welcome Coffee
- 9:00am "The Daniel K. Inoué Solar Telescope (DKIST): A Next Generation Ground Based Solar Telescope"
[Alisdair Davey](#)
National Solar Observatory
- 10:00am "[Machine Learning and Data Driven HPC at NCAR: Strategy and State of Play](#)"
[Rich Loft](#)
NCAR
- 10:30am Break
- 11:00am "CMIP6 data infrastructure at DKRZ"

[Stephan Kindermann](#)

German Climate Computing Centre (DKRZ)

11:30am Vendor- ARM

["Applications performance on Arm HPC architecture"](#)

[Phil Ridley](#)

12:00pm Lunch

1:30pm Vendor- NVIDIA

"GPU Benefits for Applications in Weather and Climate"

[Stan Posey and David Hall](#)

2:00pm ["Evolving HPC and application design toward a couple data assimilation system at NASA suitable for emerging Exascale platforms"](#)

[William Putman](#)

NASA

2:30pm ["ESiWACE, the Center of Excellence in Simulation of Weather and Climate in Europe"](#)

[Joachim Biercamp](#)

DKRZ

3:00pm Break

3:30pm Vendor- Intel

["Insight into Intel innovations that will bring enhancement for HPC applications"](#)

Andrea Luiselli

4:00pm "Insights into Cloud Technologies and Machine Learning for Scientific Data"

[Sara Graves](#)

University of Alabama, Huntsville

4:30pm ["Toward Global Mesoscale Climate Prediction"](#)

[James Kinter](#)

Center for Ocean-Land-Atmosphere Studies

5:00pm Adjourn until Banquet

7:00pm Banquet

8:00am Welcome Coffee

9:00am ["Machine Learning at the Met Office"](#)

[Niall Robinson](#)

UK Met Office Informatics Lab

9:30am ["E3SM Data Management and Publication"](#)

[Rick Wagner](#)

Globus

10:00am "The Future of Scientific Observation: Artificial Intelligence at the Edge"

[Pete Beckman](#)

Argonne National Laboratory

10:30am Break

11:00am ["NCAR Plan for Science at Scale"](#)

[Jeff de La Beaujardiere](#)

NCAR

11:30am ["New Frontiers in AI and Computing for Climate and Weather Applications and How They Relate to the NSF Ten Big Ideas"](#)

[Subashree Mishra](#)

U.S. National Science Foundation

12:00pm Lunch

1:30pm ["The Current Status of High Performance Computing and CMIP6 at CMA"](#)

[Dr. Wang Bin](#)

National Meteorological Information Centre, CMA

2:00pm ["NCAR's Next Procurement: Meeting User's Reliability and Storage Demands"](#)

[David Hart](#)

NCAR

2:30pm "Preliminary Study Result of Purpose Build Computing for Weather and Climate Models"

[Tsengdar Lee](#)

NASA

3:00pm Concluding Remarks/Anke Kamrath

3:30pm Farewell Reception