

CIMSS 5 Year Science Review Agenda
University of Wisconsin, Madison

Room 351, Atmospheric, Oceanic, and Space Sciences, 1225 West Dayton St, Madison, WI

Thursday, May 9, 2024

- 8:00 a.m. Review Panel Executive Session
- 9:00 a.m. Welcome & Introductions
Professor T. L'Ecuyer, CIMSS Director; W. Feltz, CIMSS Deputy Director
- 9:15 a.m. UW Research Environment
Professor Amy Wendt, Associate Vice Chancellor for Research-Physical Sciences
- 9:30 a.m. Space Science and Engineering Center
Mark Mulligan, Executive Director, SSEC
- 9:45 a.m. Retrieving Opportunities: Research-Driven Inclusivity in Satellite Remote Sensing
Professor Mayra Oyola-Merced, Assistant Professor, AOS
- 10:00 a.m. Department of Atmospheric and Oceanic Sciences
Professor Ankur Desai, Professor and Chair, AOS
- 10:15 a.m. The Wisconsin State Climatology Office
Bridgette Mason (Deputy Director, SCO)
- 10:30 a.m. Break
- 11:00 a.m. Overview of CIMSS, Science Planning, and Initiatives
Professor T. L'Ecuyer, CIMSS Director
- 11:45 a.m. Q&A and Discussion
- 12:30 p.m. Working Lunch (Panel Only)
- 1:30 p.m. CIMSS Science Highlights

8 presenters (9 min each + 5 min Q&A & 1 min transition)
- 1:30 pm Introduction to Session, *Professor T. L'Ecuyer, CIMSS Director*
- 1:35 pm Studying cloud radiative feedbacks using satellite climate data records
Mike Foster (CIMSS Research Professor)

- 1:50 pm Identifying Limitations of AI Models for Predicting Thunderstorms using ThunderCast
Stephanie Ortland (CIMSS PhD student)
- 2:05 pm JPSS radiance/SDR cal/val studies
Dave Tobin (CIMSS Research Professor)
- 2:20 pm CIMSS DA activities for current satellite observations
Agnes Lim (CIMSS Scientist)
- 2:35 pm CIMSS studies on potential future satellite missions
Zhenglong Li (CIMSS Scientist)
- 2:50 pm ProbSevere LightningCast Verification over Wildfires
Lena Heuscher (CIMSS Researcher)
- 3:05 pm The history of GOES at CIMSS: An overview
Mat Gunshor (CIMSS Scientist)
- 3:20 pm Pre-disaster response planning in socioeconomically disadvantaged communities
Shane Hubbard (CIMSS Scientist)
- 3:35 pm Break/Transition to AOSS Library (Rm. 317)
- 3:45 p.m. CIMSS Early-Career Poster Reception (AOSS Library with refreshments)
- 7 poster presentations with 2-minute flash talks:*
- Evaluation of a real-time WRF-Chem air quality forecasting system developed for the NOAA AEROMMA and NASA STAQS 2023 field campaigns
Jerrold Acdan (PhD student)
- Utilization of ground-based polarimetric radars for rainfall and microphysical retrievals in complex terrain
Ian Cornejo (PhD student)
- Collocated CloudSat and GOES observations over the Great Lakes to validate and improve mixed-phase cloud detection for NOAA cloud products
Leila Gabrys (MS student)
- Environmental conditions impacting late-summer sea ice concentration predictability in the Northwest Passage
Kyle Obremski (MS student)

Machine learning approaches for AMV extraction and Earth geolocation
Sophia Reiner (Undergraduate student)

Seeing Full-Spectrum: Benefits to an interdisciplinary approach to climate research
Katrina Sletten (MS student)

Characterizing PREFIRE intersections for Earth System observations and inter-calibration
Natasha Vos (MS student)

4:45 p.m. Executive Session of Review Panel

5:15 p.m. Day 1 Debrief and Discussion

6:30 p.m. Panel-only Dinner

Friday, May 10, 2024

8:30 a.m. CIMSS Education and Outreach Vision and Overview, *Prof. T. L'Ecuyer*
3 presenters (15 min + 5 min questions)

8:35 a.m. Pre-college Education, Public Outreach, and CIMSS Social Media
Margaret Mooney

8:55 a.m. CIMSS Professional Training Nationally and Internationally
Scott Lindstrom

9:15 a.m. Communicating CIMSS and SSEC science
Eric Verbeten

9:35 a.m. Q&A Time for Education and Outreach Session

10:15 a.m. Break

10:30 a.m. Science Management, *T. L'Ecuyer*

11:15 a.m. Q&A Time for Science Management Session

12:00 p.m. Working Lunch – Executive Session of Science Panel

1:00 p.m. Debrief and Discussion

2:00 p.m. Formal Adjournment

2:05 p.m. Facilities Tour (optional; 1 hour)