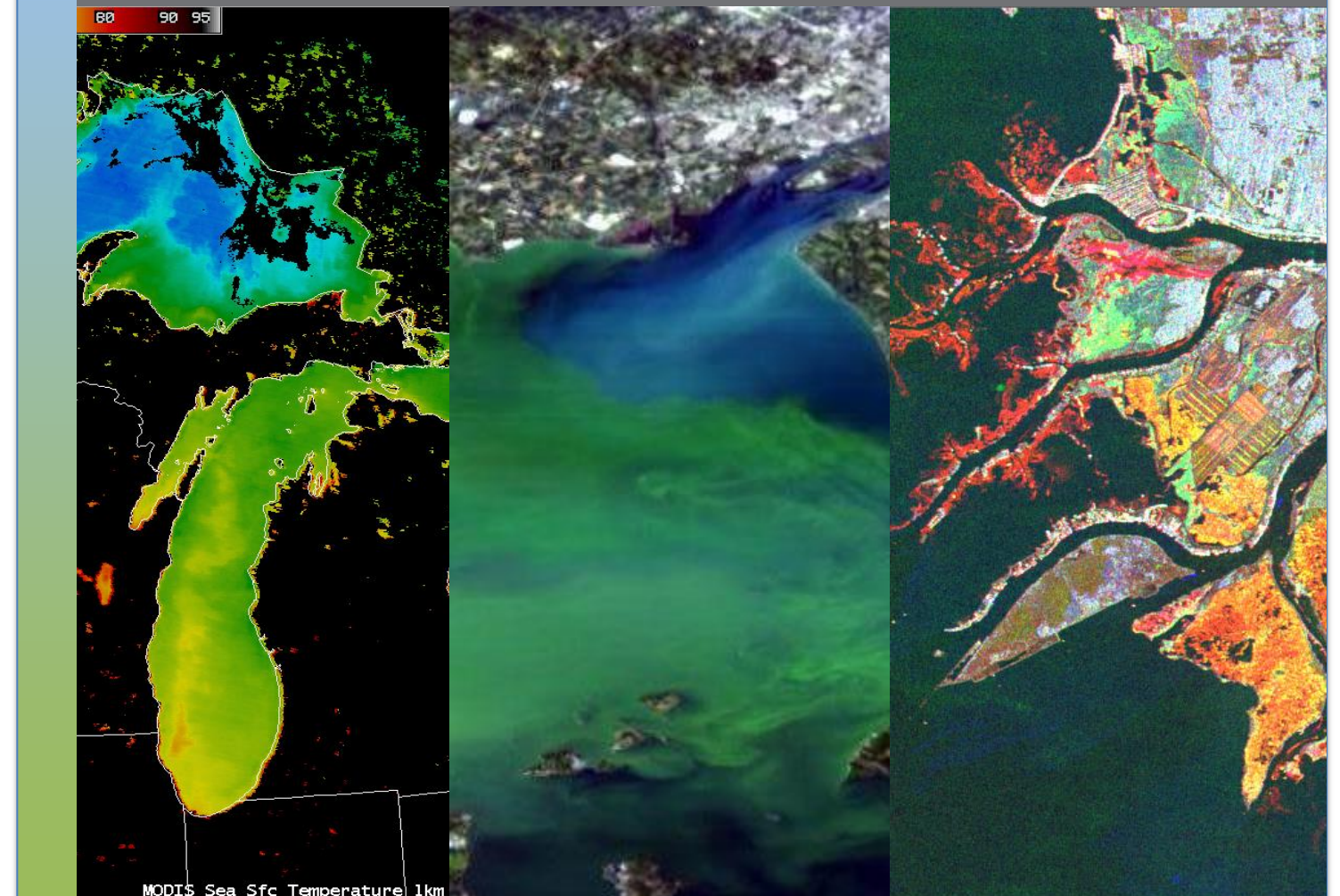
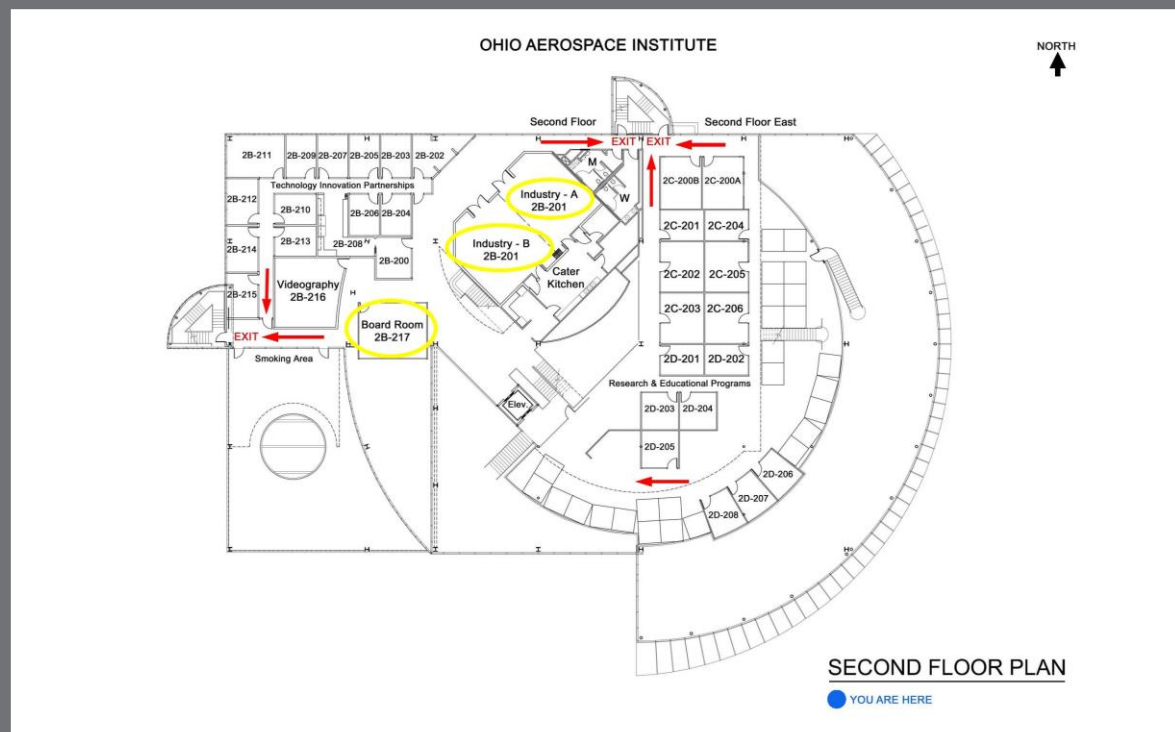
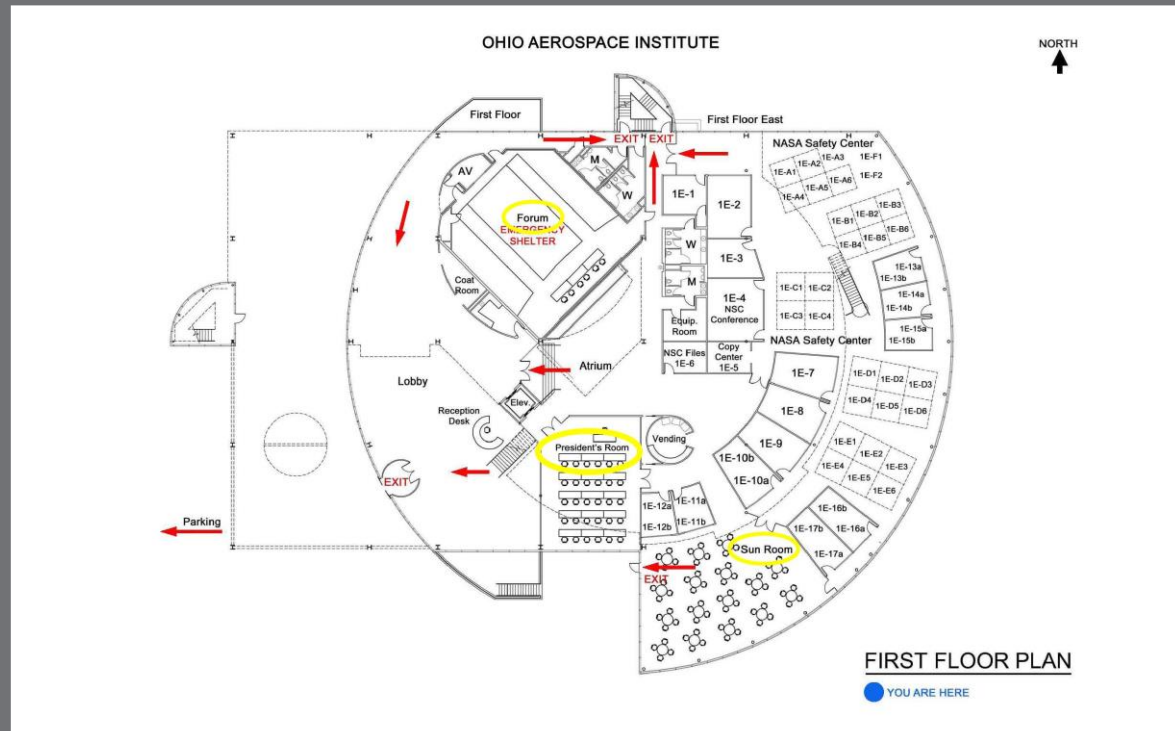


Workshop 1: March 12-13, 2014; Ohio Aerospace Institute, Cleveland

Great Lakes Workshop Series on Remote Sensing of Water Quality



The Great Lakes Workshop Series on Remote Sensing of Water quality is supported by the Applied Science Program, Earth Science Division, NASA.

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Agenda

Wednesday March 12

- 8:00-8:30 Arrival and sign-in
- 8:30-8:35 OAI Welcome (Michael Heil, OAI)
- 8:35-8:45 NASA GRC Welcome (Janet Watkins, NASA GRC)
- 8:45-9:25 Keynote Speaker (Cam Davis, EPA)
- 9:25-9:55 "Updates on NASA ESD, missions, and Decadal Survey" (L. Friedl, NASA)
- 9:55-10:10 Workshop goals, format, anticipated results (L. Liou, NASA)
- 10:10-10:30 Break
- 10:30-10:50 "Remote sensing technologies—status and future directions" (J. Lekki, NASA)
- 10:50-11:10 "Great Lakes remote sensing algorithms—status, comparisons and future directions" (R. Shuchman, MTRI)
- 11:10-12:00 "Summary of previous workshops related to Great Lakes Remote Sensing" (J. Bratton, NOAA GLERL; C. Mouw, MTU; D. Alsdorf, OSU)
- 12:00-1:15 Lunch (provided in Sun Room)
- 1:15-1:45 Summarize, organize into breakout groups 1-3 & go over breakout directions
- 1:45-3:30 Breakout groups 1, 2 & 3
- 3:30-4:00 Break
- 4:00-4:30 Breakout groups 1, 2 & 3 report out
- 4:30-5:00 General discussion and group photo
- 5:00-6:30 Reception at Ohio Aerospace Institute (Sun Room)

Wireless Access
Free wireless internet access is available through OAI's guest network, OAI_VIS. No password is necessary.



Keynote Speaker
Cameron Davis, Senior
Advisor to the US EPA
Administrator

Enjoy your visit to Cleveland

- The Rock & Roll Hall of Fame and Museum, located 20 minutes from OAI, is open daily from 10 am-5:30 pm.
- Attractions within walking distance of the Hall of Fame include the Great Lakes Science Center, which houses the NASA Glenn Visitor Center, and the International Women's Air & Space Museum
- A short distance from the museums, the Great Lakes Brewing Company in downtown Cleveland is an award-winning and environmentally conscious microbrewery
- Check the workshop website for an area guide map of restaurants close to OAI

Thursday March 13

- 8:30-8:50 Review of Day 1
- 8:50-9:10 "Combined modeling/RS approaches for the Great Lakes" (D. Schwab, UM/MTRI)
- 9:10-9:40 "Remote sensing of water quality in inland and other coastal waters: sensors, products and applications" (P. DiGiacomo, NOAA)
- 9:40-10:00 Break
- 10:00-10:20 "Water-specific NASA ESD activities, with a focus on the Great Lakes and water quality" (C. Lee, NASA)
- 10:20-11:05 Special Presentations (NASA DEVELOP Program, NASA GRC Aircraft Capabilities, OSU UAV for Water Quality)
- 11:05-11:30 Summarize, organize into breakout groups 4, 5 & 6 and go over directions
- 11:30-12:30 Lunch (provided in Sun Room)
- 12:30-2:20 Breakout groups 4, 5 & 6
- 2:20-2:50 Break
- 2:50-3:20 Breakout groups 4, 5 & 6 report out
- 3:20-4:00 Group discussion of potential short (10-week implementation) pilot projects that could be used to explore the most feasible and important areas identified by all breakout discussions
- 4:00-4:30 Concluding Remarks
- 4:30 Adjourn

Breakout groups

Day 1

1. Update sensor requirements for remote sensing of inland lakes
2. Remote sensing data and derived product gaps
3. Technology gaps (sensors, instruments, & other hardware)

Day 2

4. New potential applications for remote sensing of inland waters
5. Algorithms/modeling current approaches:
status/strengths/deficiencies
6. Platform/mission gaps and recommendations

Workshop Series Steering Committee

Larry Liou, Lead for Freshwater Research, NASA John H. Glenn Research Center

Dr. Robert Shuchman, Co-Director, Michigan Tech Research Institute—Michigan Tech University

Dr. Steve Greb, Hydrologist, Wisconsin Department of Natural Resources (DNR)

Dr. George Leshkevich, Physical Scientist, NOAA Great Lakes Environmental Research Laboratory (GLERL)

Dr. John Bratton, Deputy Director, NOAA GLERL

Dr. Jennifer Read, Executive Director, Great Lakes Observing System (GLOS)

Dr. John Lekki, Optical Systems Research Engineer, NASA John H. Glenn Research Center

Conference Presentations
Presentation slides from all workshop talks will be posted on the workshop series website at mtri.org/workshops/nasagreatlakes2014/plenary_presentations.html

Developing a Great Lakes remote sensing community of practice