

Participant Summaries and PowerPoint Slides

Participants are requested to prepare for the workshop by soliciting and synthesizing input from their broader communities regarding compelling science questions that are best addressed by an integrated and/or systems approach. Each participant will prepare one PowerPoint slide that illustrates what they personally consider to be the most compelling science issue that is best addressed by integrated and/or system science and one additional PowerPoint slide with a different theme that emerged from their community discussions of the major/other AISS questions which their specific community has raised as AISS issues/priorities. In addition, each participant is asked to provide a brief one-page summary of the most compelling AISS projects from their perspective for possible inclusion in the workshop report. This page will provide a catalogue of participant contributions.

(alphabetical by author's last name)

PARTICIPANT SUMMARIES AND PRESENTATIONS

- Adams, Byron – *microbiology & molecular biology* – Brigham Young University
 - ◆ [Byron Adams Summary](#)
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/adamsppt/download>
- Alexander, Becky – *atmospheric chemistry + climate* – University of Washington
 - ◆ [Summary of comments, ideas and concerns for AISS report](#)
 - ◆ [Powerpoint Slides](#)
- Anandakrishnan, Srihdar – glaciology – Penn State University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/anandakrishnan/download>
 - ◆ Slides – *Ice Stream Stability* – <http://cresp.tamu.edu/AISSWorkshop/slides/anandakrishnanppt/download>
- Arrigo, Kevin – biological oceanography – Stanford University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/arrigo/download>
 - ◆ Slides – **The Need for Additional Time Series Sites?** <http://cresp.tamu.edu/AISSWorkshop/slides/Arrigoslides/download?>
- Baeseman, Jenny – Early Career – Kent State University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/baeseman/download>
 - ◆ Slides – *Evolutionary history of terrestrial biology in relation to changes in glaciology, geology and climate?* <http://cresp.tamu.edu/AISSWorkshop/slides/baesemenppt/download>
- Blankenship, Don – geophysics – University of Texas
 - ◆ Synopsis – *West Antarctic Links to Sea-level Estimation (WALSE)?* – <http://cresp.tamu.edu/AISSWorkshop/slides/blankenship/download>
 - ◆ WALSE – Long Version – <http://cresp.tamu.edu/AISSWorkshop/slides/blankenship1/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/blankenshipppt/download>
- Buckley, Adams – early career
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/buckley/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/buckleyppt/download>
- Fraser, William – penguin biology – Polar Oceans Research Group
 - ◆ Summary – *Is Research on Marine Top Predators Already Incorporating an Antarctic Integrated and System Science (AISS) Approach?* <http://cresp.tamu.edu/AISSWorkshop/slides/fraser/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/fraserppt/download>
- Fricker, Helen – remote sensing ice sheets – Scripps Institute of Oceanography
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/fricker/download>

- ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/frickerppt/download>
- ◆ *Thoughts from the community* –
? <http://cresp.tamu.edu/AISSWorkshop/slides/fricker1/download>
- Hall, Brenda – glacial geology? & climate – University of Maine
 - ◆ Comments and Discussion Points –
<http://cresp.tamu.edu/AISSWorkshop/slides/hall/download>
 - ◆ Slides – *What is the behavior of ice sheets?* –
<http://cresp.tamu.edu/AISSWorkshop/slides/hallppt/download>
- Holland, David – ocean-ice modeling – New York University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/hollandsum/download> ?
 - ◆ Slides – *Sea Level Rise* – <http://cresp.tamu.edu/AISSWorkshop/slides/hollandppt/download>
- Jacobs, Stan – physical oceanography – Lamont Doherty Earth Observatory
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/jacobs/download>
 - ◆ Community Input – <http://cresp.tamu.edu/AISSWorkshop/slides/jacobs1/download>
 - ◆ Summary – *Important Research Questions for the Decades Ahead*
<http://cresp.tamu.edu/AISSWorkshop/slides/jacobs2/download> ?
- Karentz, Deneb – UV biology – University of San Francisco
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/karentz/download>
 - ◆ Slides – *What is the impact of ozone depletion?* –
<http://cresp.tamu.edu/AISSWorkshop/slides/karentzppt/download>
- Leventer, Amy – marine geology/paleoclimate – Colgate University
 - ◆ Summary <http://cresp.tamu.edu/AISSWorkshop/slides/leventer/download>–
 - ◆ Figure 1 – Northern Grahamland Section –
<http://cresp.tamu.edu/AISSWorkshop/slides/leventerfig1/download>
 - ◆ Figure 2 – *Glacier dynamics* –
<http://cresp.tamu.edu/AISSWorkshop/slides/leventerfig2/download>
- Lyons, Berry – McMurdo Dry Valleys LTER/limnologist – Ohio State University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/lyons/download>
 - ◆ Slide – *Canadian Stream Discharge* –
<http://cresp.tamu.edu/AISSWorkshop/slides/lyonsppt/download>
- Mikucki, Jill – Early career/microbial ecology – Harvard University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/mikucki/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/mikuckiPPT/download>
- Miller, Molly – paleoecology – Vanderbilt University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/miller/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/millerppt/download>
- Muench, Robin – physical oceanography – Earth and Space Research
 - ◆ Discussion Points on AISS (not necessarily in order of importance) [Muench – Word](#)
 - ◆ Discussion Points on AISS (not necessarily in order of importance) [Muench – pdf](#)
 - ◆ Slides – *Ocean/Ice/Atmosphere Interactions* –
<http://cresp.tamu.edu/AISSWorkshop/slides/muenchppt/download>
- Orsi, Alejandro – physical oceanography
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/orsi/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/orsippt/download>
- Otto-Bleisner, Bette – climate modeling – UCAR
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/bliesner/download>
 - ◆ Slides – *Stability of Antarctic Ice Sheets* –
<http://cresp.tamu.edu/AISSWorkshop/slides/ottobleisner/download>
- Powell, Ross – ANDRILL Project (geology) – Northern Illinois University
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/Powell/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/Powellppt/download>
- Raymo, Maureen – paleoceanography – University of California Irvine

- ◆ Summary – *Plio–Pleistocene climate history of Southern Hemisphere ice sheets*
<http://cresp.tamu.edu/AISSWorkshop/slides/raymo/download>
- ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/ryamopps/download>
- Saltzman, Eric – atmospheric chemistry – University of California Irvine
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/saltzman/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/saltzmanppt/download>
- Stammerjohn, Sharon – Early Career – LamontDoherty Earth Observatory
 - ◆ Summary – <http://cresp.tamu.edu/AISSWorkshop/slides/stammerjohn/download>
 - ◆ Slides –? *Seasonal sea ice changes?*–
<http://cresp.tamu.edu/AISSWorkshop/slides/stammerjohnPPT/download>
- Wall, Diana – terrestrial ecologist – Colorado State University
 - ◆ Summary – *Antarctic ice free ecosystems* –
<http://cresp.tamu.edu/AISSWorkshop/slides/wall/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/wallppt/download>
- Walsh, John – atmospheric observations/climate – IACR
 - ◆ Summary –? ? ? ? *Trajectory of Antarctic temperatures: Trends and attribution*
<http://cresp.tamu.edu/AISSWorkshop/slides/walsh/download>
 - ◆ Slides – <http://cresp.tamu.edu/AISSWorkshop/slides/walshpps/download>