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NetCDF, network Common Data Form, <http://www.unidata.ucar.edu/packages/netcdf/>

NPACI, National Partnership for Advanced Computational Infrastructure, <http://www.npaci.edu/>.

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APPENDIX 1

WORKSHOP AGENDA

San Diego Supercomputer Center

October 29-31, 2001 (Writing Day = November 1)

PowerPoint versions of these presentations are available at:

http://www.sdsc.edu/pbi/sine_workshop_agenda.html.

- October 29** **Keynote by M. Cavanaugh (NSF) and Sensor Networks**
- 7:00 - 8:00 Shuttles to SDSC from the Radisson Hotel
- 7:30 - 8:00 Breakfast Buffet at SDSC
- 8:00 - 8:30 **Alison Withey** (SDSC) - Workshop background and objectives.
Fran Berman (SDSC) - Welcoming address.
- 8:30 - 9:00 **Margaret Cavanaugh** (NSF) - Environmental Cyberinfrastructure: turning data into knowledge.
- 9:00 - 9:30 **Deborah Estrin** (UCLA) - Next century challenges: scalable coordination in sensor networks.
- 9:30 - 10:00 **Gregory Bonito** (LTER) - In situ environmental sensor technologies.
- 10:00 - 10:30 Coffee Break
- 10:30 - 11:00 **Doug Goodin** (Kansas State U.) - Environmental remote sensing technologies.
- 11:00 - 11:30 **Dave Hughes** (Old Colorado City Communications) - Wireless environmental science.
- 11:30 - 12:00 **Kenneth Johnson** (MBARI) - Marine/aquatic sensor arrays.
- 12:00 - 12:30 **Frank Vernon** (Scripps Institution of Oceanography) - Wireless networks and sensor connectivity: HPWREN.
- 12:30 - 1:15 Lunch (catered)
- 1:15 - 1:30 **William Michener** (LTER) - Announcements and charge for the breakout sessions.
- 1:30 - 3:30 **Concurrent Breakout Sessions**
Theme 1: Design and implementation of aquatic and marine sensor networks.
(Facilitator, Orcutt; Reporter, Helly)

- Theme 2: Design and implementation of terrestrial sensor networks.
(Facilitator, Waide; Reporter, J. Porter)
- Theme 3: Sensor technologies. (Facilitator, Goodin; Reporter, Bonito)
- 3:30 - 4:00 Coffee Break
- 4:00 - 5:30 **Reports from Breakout Sessions**
(20 minute presentation by breakout session facilitator/10 minute discussion each)
- 6:00 - 7:30 Reception at the Radisson Hotel [sponsored by Cal-(IT)²]
- October 30 Data Technologies**
- 7:00 - 8:00 Shuttles to SDSC from the Radisson Hotel
- 7:30 - 8:15 Breakfast Buffet at SDSC
- 8:15 - 8:30 **Alison Withey** (SDSC) - Announcements.
- 8:30 - 9:00 **Cherri Pancake** (Oregon State) - Enabling technologies and user requirements for data and information management and delivery.
- 9:00 - 9:30 **John Porter** (UVA) - Information systems for ecological research.
- 9:30 - 10:00 **Robert Peet** (UNC) - Taxonomic plot and specimen databases.
- 10:00 - 10:30 Coffee Break
- 10:30 - 11:00 **Jim Beach** (KU-BRC) - Biodiversity data retrieval and integration.
- 11:00 - 11:30 **Matt Jones** (UC - Santa Barbara) - Data integration, analysis, and synthesis.
- 11:30 - 12:00 **Jim Quinn** (UC Davis) - Technologies for integration and discovery of geospatial data.
- 12:00 - 12:30 **Mike Bailey** (SDSC) - Scientific data visualization.
- 12:30 - 1:15 Lunch (catered)
- 1:15 - 1:30 **William Michener** (LTER) - Announcements and charge for the breakout sessions.
- 1:30 - 3:30 **Concurrent Breakout Sessions**
Theme 1: Geospatial data integration.
(Facilitator, Quinn; Reporter, Stocks)
Theme 2: Distributed data access and retrieval.
(Facilitator, Beach; Reporter, Ludaescher)
Theme 3: Interfaces, portals, and knowledge environments.
(Facilitator, Pancake; Reporter, Jones)
- 3:30 - 4:00 Coffee Break

- 4:00 - 5:30 **Reports from Breakout Sessions**
(20 minute presentation by breakout session facilitator/10 minute discussion each)
- October 31 Scalable Information Networks for the Environment**
- 7:00 - 8:00 Shuttles to SDSC from the Radisson Hotel
- 7:30 - 8:15 Breakfast Buffet at SDSC
- 8:15 - 8:30 **Alison Withey** (SDSC) - Announcements.
- 8:30 - 9:00 **William Michener** (LTER) - Environmental information networks: the field station reality.
- 9:00 - 9:30 **Geoff Bowker** (UCSD) - Scaling environmental information networks: the human dimension.
- 9:30 - 10:00 **Warren Cohen** (USDA Forest Service) - Integration across scales: the role of remote sensing and models.
- 10:00 - 10:30 Coffee Break
- 10:30 - 11:00 **Raymond McCord** (Oak Ridge National Laboratory) - Regional databases and archives.
- 11:00 - 11:30 **Terry Smith** (UCSB) - Digital Libraries: conceptual & technical framework.
- 11:30 - 12:00 **Phil Papadopoulos** (SDSC) - Scalable computational infrastructure: workstations, clusters, grid computing.
- 12:00 - 12:30 **Chaitan Baru** (SDSC) - Data and knowledge-based grids.
- 12:30 - 1:15 Lunch (catered)
- 1:15 - 1:30 **William Michener** (LTER) - Announcements and charge for the breakout sessions.
- 1:30 - 3:30 **Concurrent Breakout Sessions**
 Theme 1: Environmental networks: site to regional scaling.
 (Co-Facilitators, Gage & Gosz; Reporter, Michener)
 Theme 2: Environmental networks: regional to continental scaling.
 (Facilitator, Baru; Reporter, Papadopoulos)
 Theme 3: Data sharing, IPR, and human dimension issues.
 (Facilitator, Uhler; Reporter, Vande Castle)
- 3:30 - 4:00 Coffee Break
- 4:00 - 5:30 **Reports from Breakout Sessions**
(20 minute presentation by breakout session facilitator/10 minute discussion each)
- November 1 Writing day for breakout session Reporters and Facilitators**



APPENDIX 2

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