

CSIG'11: Big Data and Big Computing in the Geosciences
SDSC, Visualization Lab E-BI43
August 8-12, 2011

	Monday, Aug 8 th	Tuesday, Aug 9 th	Wednesday, Aug 10 th	Thursday, Aug 11 th	Friday, Aug 12 th		
	Introduction	Managing remote-sensing and sensor data	Geophysical Data, Computation, and Visualization	Scientific Data Interoperability and Data Lifecycle	Related Efforts		
8:30-9:00a	Registration, Coffee	Coffee	Coffee	Coffee	Coffee		
9:00-9:30	Welcome Era of Data Intensive Supercomputing Begins Mike Norman, Director SDSC, UCSD Professor <i>(Joint GSI/CSIG session in Auditorium)</i>	Managing Hydrologic Data, Observations and Terrain Analysis David Tarboton, Utah State University	3D/4D Dynamic Earth Models Michael Gurnis, Caltech	GIN and Data Federation Steve Richards, Arizona Geological Survey	NSF The EarthCube Initiative and Future Directions Cliff Jacobs, NSF		
9:30-10:15	Introduction to Data and Memory Intensive Computing Bob Sinkovits, Gordon Applications Lead, SDSC <i>(Joint GSI/CSIG session in Auditorium)</i>						
10:15-10:30	BREAK						
10:30-12:00	Institute objectives, agenda overview and Introductions: Introduction to CSIG and Overview of Trends in CyberInfrastructure Chaitan Baru, SDSC	10:30-11:30	The Ocean Observing Initiative (OOI) use case, John Orcutt, SIO/UCSD	Computational Infrastructure for Geodynamics (CIG) and Visualization for Earth Science Prof. Louise Kellogg, Director, CIG, UC Davis	Data lifecycle: Examples for CREATE, LTER and DataONE John Vande Castle, UNM	How Cyberinfrastructure Can Help Transform the Geosciences Randy Keller, Oklahoma University	
		11:30-12:00	Introduction to OpenTopography Chris Crosby, SDSC				
12:00-1:30	LUNCH at Café Ventanas						
1:30-2:30	Value Ladder for Seismic Hazard Information Philip Maechling, Information Technology Architect Southern California Earthquake <i>(Joint GSI/CSIG session in Auditorium)</i>	Technologies for OpenTopo: data formats, data management, services infrastructure Chris Crosby, Viswanath Nandigam, Sriram Krishnan, SDSC		Advanced Visualization with Geospatial Data Vid Petrovic and Jurgen Schulze, Calit2	Data citation, curation, and long-term preservation, Ardys Kozbial and David Minor, SDSC / UCSD Library	Adjourn <i>(Box lunches available)</i>	
2:30-2:45	BREAK						
2:45-3:30	Overview of the Gordon Architecture Shawn Strande, SDSC <i>(Joint GSI/CSIG session in Auditorium)</i>	Strategies for managing large-scale data: database systems, Hadoop Chaitan Baru, Sriram Krishnan, Viswanath Nandigam, SDSC		The OpenEarth Framework for multidimensional data integration David Nadeau, SDSC	Data federation and discovery Kai Lin, SDSC		
3:30-3:45	UCSD Sustainability, OSISoft David Zeglinski, OSISoft <i>(Joint GSI/CSIG session in Auditorium)</i>						
4:00-6:00p	Poster Session and Reception <i>(Joint GSI/CSIG session in Auditorium)</i>	4:00-5:00p	SDSC Cloud Services, Dallas Thornton, SDSC	4:00-5:00p	Interacting with large data volumes David Nadeau, SDSC		4:00-5:00p
						6:00 – 9:00p	Dinner The Village, 15 th floor

