NOAA Science On a Sphere Users Collaborative Network Workshop 2008
July 29-31 Hawaii

Agenda

Day 1—July 29 @ the Bishop Museum (Honolulu)					
Location	**Start Time**	**Mins**	**Topic**	**Presenting Organization**	**Presenter**
Atherton Lanai	8:00 AM	0:30	**Bus Arrives from Ala Moana Hotel, Continental Breakfast Available & Informal Introductions**		
Atherton Halau	*WELCOME AND INTRODUCTION CEREMONIES*				
	8:30 AM	0:35	Welcome, Opening, meeting objectives & logistics	NOAA Office of Education	John McLaughlin
				Bishop Museum	Blair D. Collis
				NOAA Pacific Services Center	Bill Thomas
	9:05 AM	0:15	Welcome from Office of Education Leadership & Questions & Answers Discussion	NOAA Office of Education	Louisa Koch (via video-conference)
	9:20 AM	0:30	Plans for Spherical Display Program Development	NOAA Office of Education	Carrie McDougall
	9:50 AM	0:30	NOAA SOS Team presents on SOS: plans for software and hardware improvements & Q & A	NOAA's Earth System Research Lab	David Himes
Atherton Lanai	10:20 AM	0:20	**Morning Break**		
Atherton Halau	*INTRODUCTION PRESENTATIONS FROM INSTITUTIONS WITH SPHERICAL DISPLAY INSTALLATIONS (NOTE: In order of installation)*				
	10:40 AM	0:10	SOS at Nauticus	Nauticus - The National Maritime Center	Peter Leighton
	10:50 AM	0:10	SOS at the SMM	Science Museum of Minnesota	Pat Hamilton
	11:00 AM	0:10	SOS at the Tech	The Tech Museum of Innovation	Mike Drennan
	11:10 AM	0:10	SOS at the MSC	Maryland Science Center	Roberta Cooks
	11:20 AM	0:10	SOS at the NASA Goddard Visitors Center	NASA Goddard Space Flight Center	Maurice Henderson
	11:30 AM	0:10	SOS at Thunder Bay National Marine Sanctuary	NOAA's Great Lakes Maritime Heritage Center	Russ Green
	11:40 AM	0:10	SOS at James Madison Univ.	James Madison University	CJ Brodrick
	11:50 AM	0:10	SOS at McWane Science Center	McWane Science Center	Lawrence Cooper

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Day 1—July 29 @ the Bishop Museum (Honolulu)-cont.					
Atherton Lanai & Lawn	12:00 PM	1:00	**LUNCH - provided**		
Atherton Halau	*INTRODUCTION PRESENTATIONS FROM INSTITUTIONS WITH SPHERICAL DISPLAY INSTALLATIONS (CONTINUED)*				
	1:00 PM	0:30	Virtual SOS & Discussion	NOAA's Earth System Research Lab	Eric Hackathorn (via Second Life)
	1:30 PM	0:10	SOS at the Fiske Planetarium	Fiske Planetarium and Science Center of Colorado University	Doug Duncan
	1:40 PM	0:10	SOS at the Museum of Science and Industry	The Museum of Science and Industry	Melanie Walker & Heather Barnes
	1:50 PM	0:10	SOS at NOAA's National Severe Storms Lab	NOAA's National Severe Storms Laboratory	Daphne Thompson
	2:00 PM	0:10	SOS at Clark Planetarium	Clark Planetarium	Robert Morris
	2:10 PM	0:10	*Walk to SOS Exhibit*		
SOS Exhibit	2:20 PM	0:45	SOS at the Bishop	Bishop Museum	Leon Geschwind & Mike Shanahan
Atherton Lanai	3:05 PM	0:20	**Afternoon Break**		
Atherton Halau	*INTRODUCTION PRESENTATIONS FROM INSTITUTIONS WITH SPHERICAL DISPLAY INSTALLATIONS (CONTINUED)*				
	3:25 PM	0:10	SOS at the Lawrence Hall of Science	Lawrence Hall of Science, University of California, Berkeley	Gretchen Walker
	3:35 PM	0:08	SOS at the National Renewable Energy Lab	National Renewable Energy Lab, Dept. of Energy	Joe Verrengia
	3:43 PM	0:08	SOS at the Smithsonian Ocean Hall	Smithsonian National Museum of Natural History	Bill Watson
	3:51 PM	0:08	SOS at Whitaker Center	Whitaker Center for Science and the Arts	Steve Bishop
	3:59 PM	0:08	SOS at NC Aquarium	North Carolina Aquarium on Roanoke Island	Andrea Hitt
	4:07 PM	0:08	SOS at Smithsonian Zoo	Smithsonian National Zoological Park	John McLaughlin *in place of Miles Roberts*
	4:15 PM	0:08	Magic Planet at Hatfield Marine Science Center	Hatfield Marine Science Center, Oregon State Univ.	Nancee Hunter
	4:23 PM	0:08	SOS at Boonshoft Museum	Boonshoft Museum of Discovery	Susan Pion
	4:31 PM	0:08	SOS at the Wildlife Experience	Wildlife Experience	Jessica Clark & David Farquharson
	4:39 PM	0:05	Closing Remarks	NOAA Office of Education	John McLaughlin
Atherton Lanai	4:44 PM	1:00	**Drink Reception**		
	5:44 PM	*Meeting concludes for the day, bus departs for Ala Moana Hotel*			

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Day 2—July 30 @ the Bishop Museum (Honolulu)					
Location	**Start Time**	**Mins**	**Topic**	**Presenting Organization**	**Presenter**
Atherton Lanai	8:00 AM	0:30	**Bus Arrives from Ala Moana Hotel, Continental Breakfast Available**		
SOS Exhibit	*CREATING NEW CONTENT*				
	8:30 AM	0:45	New datasets in the SOS library & Discussion	NOAA's Earth System Research Lab	Beth Russell
	9:15 AM	0:12	New Content Modules to be Created	American Museum of Natural History	Ned Gardiner
	9:27 AM	0:12	New Content Modules to be Created	Bishop Museum	Mike Shanahan & Leon Geschwind
	9:39 AM	0:12	New Content Modules to be Created	Lawrence Hall of Science, University of California, Berkeley	Gretchen Walker
	9:51 AM	0:44	General discussion on creating and sharing content - an opportunity for the network to give guidance to the new content awardees		
Atherton Lanai	10:35 AM	0:15	**Morning Break**		
SOS Exhibit	*SPHERE CASTING*				
	10:50 AM	0:10	Introduction to Sphere Casting	NOAA's Earth System Research Lab	David Himes
	11:00 AM	1:00	Keynote & Sphere casting Demonstration & Q & A	NOAA's Earth System Research Lab	Sandy MacDonald
Atherton Lanai & Lawn	12:00 PM	1:00	**LUNCH - provided**		
Atherton Halau	*LINKING WITH FORMAL EDUCATION EFFORTS AND ADDITIONAL CONTENT SOURCES*				
	1:00 PM	0:20	Teachers and Students Building Interactive Content	Global Imagination	Mike Foody
	1:20 PM	0:40	Magic Planet Lesson Plans, Formal Eduction Connections, and New Content	NOAA Pacific Services Center (PSC)	Matthew McBride & Shannan Lewinski
	2:00 PM	0:10	PBS Presentation	Public Broadcasting System (PBS)	Donelle Blubaugh

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Day 2—July 30 @ the Bishop Museum (Honolulu)-cont.					
Atherton Halau	*EVALUATION*				
	2:10 PM	0:15	SOS Program Evaluation	Institute for Learning Innovation	Kate Haley Goldman
	2:25 PM	0:10	Content Research & Evaluation of spherical displays	Hatfield Marine Science Center, Oregon State Univ.	Céleste Barthel
	2:35 PM	0:10	Science Museum of Minnesota Formative Evaluation	Science Museum of Minnesota	Pat Hamilton
	2:45 PM	0:30	General discussion on program evaluation		
	3:15 PM	0:10	Introduce, choose break-out group topics & identify group facilitator for break-out groups		
Atherton Lanai	3:25 PM	0:15	**Afternoon Break**		
	BREAK-OUT GROUPS SET #1				
TBD	3:40 PM	1:00	Break-out group 1a--Topic TBD		
TBD			Break-out group 1b--Docent Training and Quality Control		
SOS Exhibit			New SOS Installations Workshop	MAXatrax Systems Inc.	John Marciniak
Atherton Halau	4:40 PM	0:20	Report out of BREAK-OUT GROUPS		
	5:00 PM	0:05	Closing Remarks	NOAA Office of Education	John McLaughlin
	5:05 PM	1:00	**Tour of Bishop Museum ("Behind the scenes" at the Hawaiian Hall & Science Center)**		
	6:05 PM	*Meeting concludes for the day, bus departs for Ala Moana Hotel*			

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Day 3—July 31 @ the 'Imiloa Astronomy Center of Hawai'i (Hilo)					
Location	**Start Time**	**Mins**	**Topic**	**Presenting Organization**	**Presenter**
SOS Exhibit	8:30 AM	0:30	**Vans Begin Arriving from Airport, Continental Breakfast Available**		
SOS Exhibit	*WELCOME AND INTRODUCTION*				
	9:00 AM	0:10	Welcome to 'Imiloa	Imiloa Astronomy Center of Hawai'i	Ka'iu Kimura
	9:10 AM	0:30	SOS at Imiloa Astronomy Center of Hawaii	Imiloa Astronomy Center of Hawai'i	Pomai Kajiyama
SOS Exhibit	*RESOURCES FROM NOAA*				
	9:40 AM	0:25	Climate Change content for spherical displays	NOAA Climate Program Office & Geophysical Fluid Dynamics Laboratory (GFDL)	Frank Niepold & Keith Dixon
	10:05 AM	0:25	NOAA's Environmental Visualization Program Products: New Corals Module and Visualization Pieces for Smithsonian Ocean Hall	NOAA Environmental Visualization Program	Dan Pisut
	10:30 AM	0:10	Resources from the IDEA Center	NOAA Pacific Islands IDEA (Integrated Data and Environmental Assessment) Center	Lynn Nakagawa
	10:40 AM	0:10	Introduce, choose topics & identify group facilitator for break-out group		
SOS Exhibit	10:50 AM	0:15	**Morning Break**		
	BREAK-OUT GROUPS SET #2				
SOS Exhibit	11:05 AM	1:00	Break-out Group 2a-Future of the SOS Network & Future Funding Solicitations		
TBD			Break-out Group 2b-Topic TBD		
SOS Exhibit	12:05 PM	0:25	Report out of BREAK-OUT GROUPS		

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Day 3—July 31 @ the 'Imiloa Astronomy Center of Hawai'i (Hilo)-cont.					
SOS Exhibit	12:30 PM	0:15	**LUNCH - 15 minute break to get lunch from buffet. We will eat while watching new content.**		
SOS Exhibit	*NEW CONTENT RESOURCES*				
	12:45 PM	0:05	Artistic Pieces from Clark Planetarium	Clark Planetarium	Robert Morris
	12:50 PM	0:05	Chapter 1 of Ocean Hall Content	Smithsonian National Museum of Natural History	Bill Watson
	12:55 PM	0:10	Real-time tsunami data	NOAA and Bishop Museum	Leon Geschwind and Nathan Becker
	1:05 PM	0:20	Content From NASA Goddard	NASA Goddard Space Flight Center	Maurice Henderson
	1:25 PM	0:10	Overview of Upcoming "FROZEN" Production	NASA Goddard Space Flight Center	Michael Starobin
	1:35 PM	0:10	New Content From SSEC	Univ. of Wisconsin Space Science and Engineering Center (SSEC)	Rick Kohrs
	1:45 PM	0:12	Blue Planet	Science Museum of Minnesota	Pat Hamilton
	1:57 PM	0:12	Energy Planet	National Renewable Energy Lab, Dept. of Energy	Joe Verrengia & Michael Starobin
	2:09 PM	0:12	"Earth Revealed" Live Current Science	Museum of Science and Industry	Heather Barnes and Melanie Walker
	2:21 PM	0:10	Software for Creating High Production Value Content	Global Imagination	Mike Foody
SOS Exhibit	*WRAP-UP AND NEXT STEPS*				
	2:31 PM	0:20	Conclusions and Future Meetings	NOAA Office of Education	John McLaughlin
SOS Exhibit	2:51 PM	0:15	**Afternoon Break**		
	3:06 PM	0:59	**3-D Show in Planetarium and Tour of Imiloa**		
	4:05 PM	*Meeting concludes and vans depart for airport*			

Potential Break Out Group Topics:

1. Increasing interactivity with the sphere: efforts done by network members to facilitate interactivity
2. Spherical display system exhibit setups that maximize engagement of audiences
   need to adequately train their docents. Supplemental info that should be with the dataset, how to create the best docents.
3. Use with educators/with formal education groups—linking content to formal education
4. Connections with other technologies (other spheres, domes, virtual globes, flat screens)
5. Synergistic uses of Magic Planet and SOS. How to share data between Magic Planet and SOS, etc.
6. Incorporating "real time" data
7. SOS hardware & software issues (installation, portability, higher resolution projectors, possibility for SOS
   to be configured to run on fewer computers). How should the system be improved, what's working well, what's not?
8. Additional topics suggested by participants