



AGENDA

Day of Engineering, Science and Technology

Tuesday, June 29, 2010
8:45 a.m. – 4:00 p.m.
Pacific Forum (except as noted)

Theme: Looking to the Future

Time	Title	Presenter(s)
8:15 – 8:45	Breakfast	
8:45 – 9:00	Introduction	 Chris Scholin <i>President and CEO</i>
MBARI Pushing the Envelope		
9:00 – 9:30	Controlled, Agile and Novel Observing Network (CANON)	 Francisco Chavez <i>Senior Scientist</i>
9:30 – 10:00	Vision for the technologies of the future	Jim Bellingham <i>Chief Technologist</i> 
10:00 -10:30	Data from the depths around the clock (MARS)	 Craig Dawe <i>Technical Support Manager/ MARS Manager</i>
10:30 – 11:00	BREAK	

11:00 -11:30	The ocean in a high CO ₂ world, from deep to shallow		Peter Brewer <i>Senior Scientist</i>
11:30 – 12:00	How do we observe biogeochemical cycles at the global scale in a changing world?		Ken Johnson <i>Senior Scientist</i>
12:00 – 1:00	LUNCH - Pacific Forum		
Persistent Presence			
1:00 – 1:30	Group 1 (Test Tank) Long Range AUV CANON Field tools Moored ESP		 ESP Team
	Group 2 (Building D High Bay) Benthic Imaging AUV MBARI new vessel designs		 ESP Team
1:30 – 2:00	Group1 and 2 switch		
2:00 – 2:30	BREAK - Walk back to the Pacific Forum		
A Look Forward			
2:30 – 3:00	Extending an autonomous presence (wave-powered buoys and AUV docking)	Andy Hamilton <i>Systems Engineer</i>	

3:00 – 3:30	Ocean visualization	  Dave Caress Software Engineer Brian Schlining Software Engineer  Brett Hobson Mechanical Engineer
3:30 – 4:00	Exploration and discovery: careful plans and serendipity	 Bob Vrijenhoek Senior Scientist
4:00 – 6:00	Allhands reception in Atrium	
	Posters in the Pacific Forum • Sediment traps and ROV operations under icebergs • High-Resolution AUV Mapping Reveals Structural Details of Submarine Inflated Lava Flows • Topography within the axial channels of Monterey and Soquel Canyons • Development of a High-Resolution Shallow Seismic Refraction Tomography System at the Monterey Bay Aquarium Research Institute • Distinctive Fine-Scale Morphology of Hydrate Ridge • Fine-Scale Morphology of Gas-Rich Sites on the Cascadia Margin Near Bullseye Vent • Fine-Scale Morphology of West Mata Volcano and the Northeast Lau Spreading Center, Lau Basin from AUV Multibeam Surveys • Connecting an Ocean-Bottom Seismometer to a Seafloor Cabled Observatory: A Prototype System in Monterey Bay • Development of in situ Respirometers for Ocean Acidification Studies • Time series analysis of six whale-fall communities in Monterey Canyon • Cataloguing biodiversity in the deep-sea: tools, techniques, and challenges • Remote Detection of Marine Microbes and Functional Genes Using the ESP	• Brett Hobson • Dave Clague • Eve Lundsten • Rich Henthorn • Charlie Paull • Hans Thomas • Dave Caress • Paul McGill • Michael Risi, Craig Okuda, Bob Herlien • Kyra Schlining • Nancy Jacobsen Stout • ESP Team member