NSF-Sponsored Seafloor Sensors/Instrumentation Workshop

Gleneden Beach, Oregon, July 12-13

Draft Agenda

<u>Objectives</u>: The overarching workshop goal is to chart the future for instrumenting the seafloor to provide real-time data. A key focus will be to develop strategies to enable early warning of geohazards. Topics to be explored include the development of sensors to measure seafloor deformation, temperature and fluid flow with high resolution over broad areas, strategies for transmitting the data to land quickly and efficiently, and methods for obtaining energy from the environment.

Day 1: Thursday, July 12

Seating and coffee, light breakfast
Nelcome and workshop objectives
Chris Parrish, Oregon State University
NSF vision and anticipated outcomes
Shubhra Gangopadhyay, National Science Foundation
tanding science needs for seafloor sensing
wing questions: 1) What types of data do we need? 2) Why do we need those
future directions for the collection and use of the data?
Falks 1-5 (12 min each)
Panel discussion for Talks 1-5
Coffee break
Falks 6-10 (12 min each)
Panel discussion for talks 6-10
unch (catered)
standing current state-of-the-art in seafloor sensing (including power,
on-board processing, etc.)
Falks 1-5 (12 min each)
Panel discussion for talks 1-5
Break
Falks 6-9 (12 min each)
Panel discussion for talks 6-9
torming kick-start
Overview of goals for Day 2. Capture high-level points from Day 1 that will inform
he Day 2 brainstorming sessions (no discussion—just jot down key points)
Dinner at local restaurant

Day 2: Friday, July 13

Seating and coffee, light breakfast
ning talks
Lightning talks (2 slides max)
nalysis: where are the chasms between seafloor data needs and what the current
technologies can deliver?
Gap analysis brainstorming (full group)
Coffee break
Small group break-outs. Each group identifies ~5 of the items identified in the gap
analysis sub-session to flesh out
Lunch (catered)
ning: how do we close these gaps and design, build, implement and operate the
/networks of the future?
Report-outs from small groups.
Break
Full-group visioning. Need to capture big-ticket items to address in reports. Ensure
that we are tying back to overarching workshop goals and objectives.
Workshop close. Shuttles depart for EUG and PDX
Synthesis, report writing