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

| 8:00 - 8:45 | Seating and coffee, light breakfast |
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| 8:45 – 9:00 | Welcome and workshop objectives |
| | Chris Parrish, Oregon State University |
| 9:00 – 9:15 | NSF vision and anticipated outcomes |
| | Shubhra Gangopadhyay, National Science Foundation |
| Session I: Understanding science needs for seafloor sensing | |
| Focus on the following questions: 1) What types of data do we need? 2) Why do we need those | |
| data? 3) What are future directions for the collection and use of the data? | |
| 9:15 – 10:15 | Talks 1-5 (12 min each) |
| 10:15 – 10:30 | Panel discussion for Talks 1-5 |
| 10:30 - 10:45 | Coffee break |
| 10:45 - 11:45 | Talks 6-10 (12 min each) |
| 11:45 – 12:00 | Panel discussion for talks 6-10 |
| 12:00 - 13:00 | Lunch (catered) |
| Session II: Understanding current state-of-the-art in seafloor sensing (including power, | |
| communication, on-board processing, etc.) | |
| 13:00 - 14:00 | Talks 1-5 (12 min each) |
| 14:00 - 14:15 | Panel discussion for talks 1-5 |
| 14:15 – 14:30 | Break |
| 14:30 – 15:15 | Talks 6-9 (12 min each) |
| 15:15 – 15:30 | Panel discussion for talks 6-9 |
| Session III: Brainstorming kick-start | |
| 15:30 – 16:45 | Overview of goals for Day 2. Capture high-level points from Day 1 that will inform |
| | the Day 2 brainstorming sessions (no discussion—just jot down key points) |
| 18:00 | Dinner at local restaurant |

Day 2: Friday, July 13