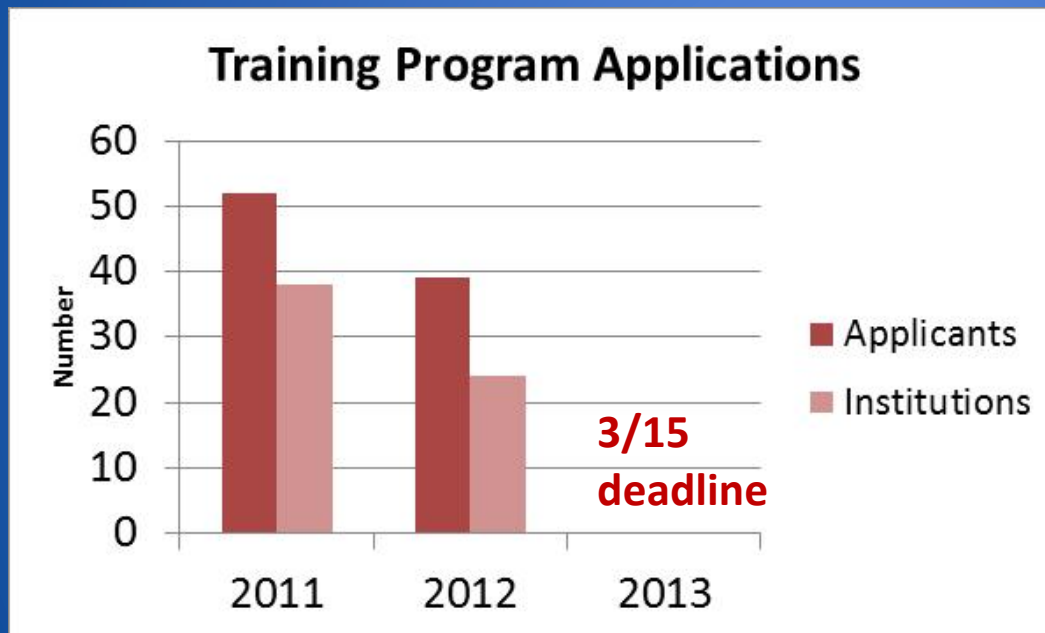


UNOLS Chief Scientist Training Cruise Program Report



2011- two cruises,
some foreign
applicants

2012- one cruise, US
institutions only

2013-demand TBD
October 16-25
R/V Endeavor

Demand Factors:

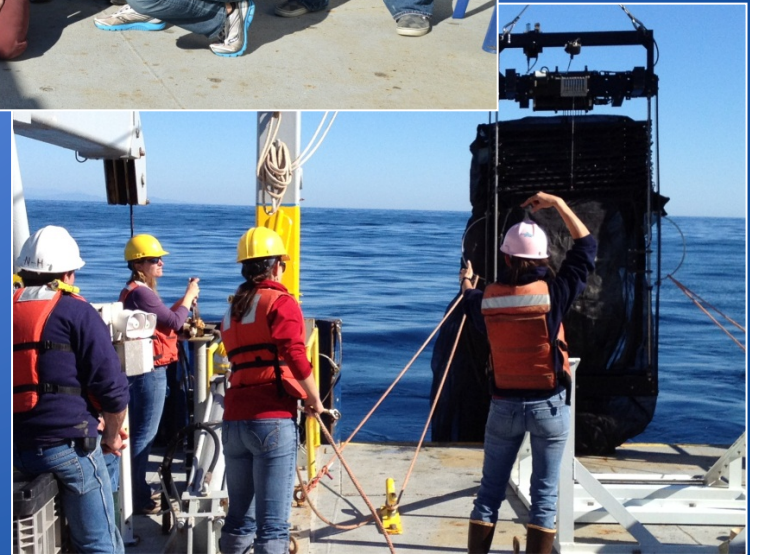
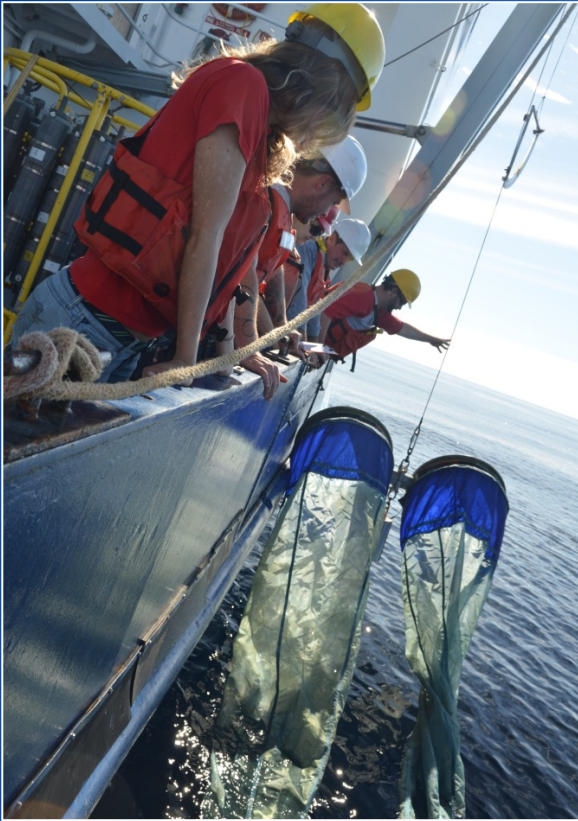
Timing

Publicity

Region?

NH1212

Mentors: Clare Reimers, Dave Checkley
Marine Techs: Meghan Donohue, Robb Hagg



Post-cruise questionnaire results

Q2.

| How did you learn of the UNOLS Early Career Chief Scientist Training Cruise opportunity? | | |
|--|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Announcement from your institution's UNOLS representative | 0.0% | 0 |
| A colleague or mentor | 84.6% | 11 |
| UNOLS e-mail announcement, newsletter, or website | 15.4% | 2 |
| Internet posting from a marine science society or early career site | 0.0% | 0 |
| Other (please specify) | 0.0% | 0 |
| <i>answered question</i> | | 13 |
| <i>skipped question</i> | | 0 |

Q3.

| Did this program change your perception of the purpose, capabilities and availability of the UNOLS Fleet? | | |
|---|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Very much | 69.2% | 9 |
| Moderately | 30.8% | 4 |
| Very little | 0.0% | 0 |
| Not at all | 0.0% | 0 |
| <i>answered question</i> | | 13 |
| <i>skipped question</i> | | 0 |

Q5.

| How did this program affect the likelihood that you will request ship time for future research? | | |
|---|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Increased | 100.0% | 13 |
| No change | 0.0% | 0 |
| Decreased | 0.0% | 0 |
| <i>answered question</i> | | 13 |
| <i>skipped question</i> | | 0 |

Q6.

| Were you able to complete useful research sampling or measurements on this cruise? | | |
|--|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Very much | 76.9% | 10 |
| Moderately | 23.1% | 3 |
| Very little | 0.0% | 0 |
| Not at all | 0.0% | 0 |
| <i>answered question</i> | | 13 |
| <i>skipped question</i> | | 0 |

Q7.

| Did this cruise help you to form new collaborations with other scientists? | | |
|--|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Yes | 84.6% | 11 |
| No | 7.7% | 1 |
| Not sure | 7.7% | 1 |
| <i>answered question</i> | | 13 |
| <i>skipped question</i> | | 0 |

Q8.

| Did this cruise broaden your knowledge of oceanographic methods or techniques used by other disciplines? | | |
|--|------------------|----------------|
| Answer Options | Response Percent | Response Count |
| Yes | 100.0% | 13 |
| No | 0.0% | 0 |
| Not sure | 0.0% | 0 |

Immediate Impacts

Feb 2013 NSF proposal cycle ship time requests by participants: Jake Bailey, Alyson Santoro, Kimberly Null

IOP PUBLISHING

Smart Mater. Struct. 22 (2013) 014012 (7pp)

SMART MATERIALS AND STRUCTURES

doi:10.1088/0964-1726/22/1/014012

Calibration and validation of a harbor seal whisker-inspired flow sensor

Heather Beem, Matthew Hildner and Michael Triantafyllou

Department of Mechanical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA, USA

Acknowledgments

Thanks to Matthew Hildner for running the calibration experiments and to Dr Valdivia y Alvarado for sharing the design that jump-started this work. Thanks also to Eric Hayden and Terry Hammar for contributing their expertise in making this an ocean-ready sensor. We are grateful to all parties involved in making the first UNOLS Chief Scientist Training Cruise (funded by NSF Grant OCE-1125396) series a success. This work was funded in part by the Singapore-MIT Alliance for Research and Technology (SMART) Center for Sensing and Environmental Modeling (CENSAM).

What next?

Q14.

| Would you recommend that the NSF support more training cruises of this kind? | | |
|---|--------------------------|-----------------------|
| Answer Options | Response Percent | Response Count |
| Yes | 100.0% | 13 |
| No | 0.0% | 0 |
| Please explain your response | | 13 |
| | <i>answered question</i> | 13 |
| | <i>skipped question</i> | 0 |

- Follow-through on Chief Scientist Manual
- Post-cruise engagement in UNOLS meetings
- Future cruises