

Many Learning Pathways in the Ocean Sciences - Webinars

The Institute for Broadening Participation (IBP) has identified many 'positive factors' that influence success for students pursuing STEM careers - including the presence of role models, active mentoring, and exposure to STEM courses. There are many steps in this pathway - from early educational experiences to undergraduate education and higher degrees - and each can be wrought with unexpected challenges.

The webinars are co-hosted by IBP and The Centers for Ocean Sciences Education Excellence – Ocean Systems (COSEE-OS) and are designed to meet the needs of students at different points in their career pathways, providing direct access to research-based guidance, live advice from peer panelists and guest experts, and a collection of useful resources. Since 2011, COSEE and IBP have hosted 18 of these webinars, reaching over 840 participants.

For Undergraduates

- **Applying and Getting Paid for Summer Research:** In this recurring series (repeated four times so far due to popular demand), presenters from IBP guide participants through a concept map-based presentation highlighting a variety of information and tips that might aid students as they begin to think about applying for paid summer research opportunities.
- **Transitioning from 2-Year and 4-Year Colleges to a Career in Ocean Science:** This webinar, featuring University of Maine professor William G. Ellis, explores the many career pathways available in ocean sciences, with an emphasis on strategies for transitioning from two to four year college programs.

For Potential and Current Graduate Students

- **Paying for Graduate School:** In this recurring series (also repeated four times since first presented), presenters from IBP walk participants through a timeline for applying to and paying for graduate school, and include invaluable tips for finding the right program.
- **Graduate Student Education & Outreach:** Creating "communities of practice" with his education and outreach efforts, graduate student Lonnie Gonsalves (NOAA) shares his experiences working to bring together graduate and undergraduate students in this webinar.

For Potential and Current Postdocs

- **Postdoc Webinar Series:** This series of three webinars focuses on what it takes to be successful after graduate school and how to obtain a postdoctoral research position. The webinars include: 1) *Preparing and Applying for a Postdoc Position*, 2) *Negotiating a Postdoc Position* and 3) *Making the Most of Your Postdoc Position*.

Special Topics

- **Pathways of Support:** This webinar, featuring ocean scientist Dr. Christina De La Rocha (Marine Environmental Sciences Laboratory, Brest, France) focuses on the often changing path that can lead to a career in ocean science, and what strategies she used to meet the challenges facing her.
- **Mentoring Underrepresented Students:** During his webinar, Dr. Brian Bingham (Western Washington University) shares his personal mentoring stories as well as insights into how to become a better mentor.
- **Sustained Mentoring Communities:** Drs. Sharon Ziegler-Chong and Noleani Puniwai (University of Hawaii) illustrate the many ways they might build a supportive community of scientific mentors at their own institutions for underrepresented scientists-in-training.
- **Introduction to Broadening Participation Resources:** This webinar targeted undergraduate educators and provided a broad overview of resources available from IBP, including a tour of the Pathways to Science website.

To view the archive of any of these webinars please visit:
<http://cosee.umaine.edu/programs/webinars/mlpios/>



Additional Resources:

National Science Foundation : Women, Minorities and Persons with Disabilities in Science and Engineering

<http://www.nsf.gov/statistics/wmpd/2013/>

President's Council of Advisors on Science and Technology (PCAST): Engage to Excel

http://www.whitehouse.gov/sites/default/files/microsites/ostp/pcast-engage-to-excel-final_2-25-12.pdf

21st Century Skills: Preparing Students for THEIR Future

https://www.mheonline.com/mhmymath/pdf/21st_century_skills.pdf

Institute for Broadening Participation

<http://www.ibparticipation.org>

Contact Us

Annette deCharon

annette.decharon@maine.edu

J. Theodore Repa

jtheodorerepa@gmail.com

Chris Cash

ccash@ibparticipation.org

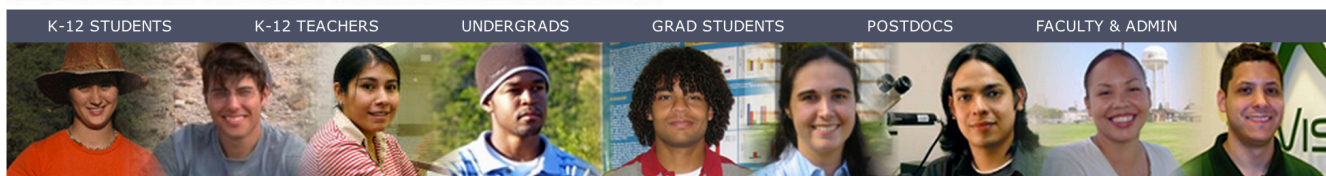
David Siegfried

dsiegfried@ibparticipation.org

Upcoming Event

Webinar for faculty – July 24, 2014 at 4pm ET

Introduction to Broadening Participation Resources: This webinar targeted undergraduate educators and provided a broad overview of resources available from IBP, including a tour of the Pathways to Science website. Presented by IBP staff and focused on tools for faculty to broaden participation. 1 hr.



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