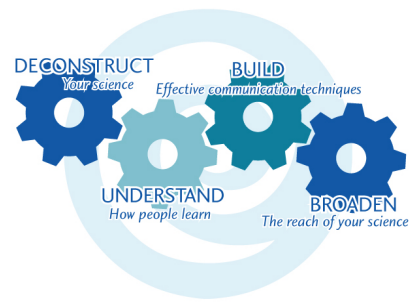


**Gears for Scientific Success:
COSEE Professional Development Workshop
for Early Career Scientists**
Ocean Sciences Meeting 2014 – Honolulu, HI

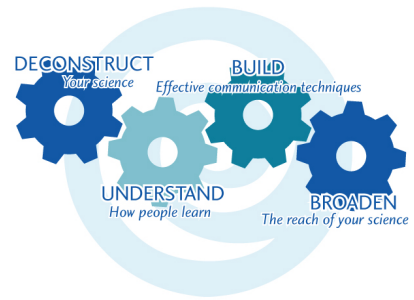


Workshop Agenda – Sunday, February 23rd

- 7:30 am Continental Breakfast
- 8:00 am **Welcome**
Introductions
Overview of Workshop Goals
- 9:00 am **Deconstruct Your Science Using Concept Mapping – Gear #1**
Learn and apply Concept Mapping skills to help you show the relation and context of your science to others and promote open-ended discussions in your professional presentations.
- 10:15 am **Creating Your Science Story – Gear #1**
Learn effective practices of storytelling. Tell stories about your science for use in your writing, presentations, outreach efforts, and dinner conversations.
- 11:15 pm **Telling Your Science Story – Gear #3**
Share your stories with the group, and learn about interacting with the media and producing your own audio and video stories.
- 12:00 pm Catered Lunch
- 12:45 pm **Understand How People Learn & Build Effective Communication – Gears #2 & 3**
Explore what educational research says about how people learn and what this can tell us about effective ways to teach and communicate with the public.
- 2:00 pm **COSEE NOW Virtual Tools – Gear #4**
Learn about a new set of tools that COSEE Networked Ocean World (COSEE NOW) has created to help scientists construct and implement broader impact statements required in research proposals.
- 2:15 pm Break
- 2:30 pm **Enhancing Diversity – Gear #4**
Explore an example of how the GEARS work together to create a strong broader impact project aimed at broadening participation of underrepresented and underserved groups
- 2:45 pm **Applying the GEARS to Your Work – Gear #4**
Discuss strategies on how to integrate the gears to a particular audience and apply this information to your own research.
- 4:00 pm **Evaluation of Workshop**
- 4:20 pm **Closing Remarks**

This workshop is sponsored by the Centers for Ocean Sciences Education Excellence (COSEE) and the National Science Foundation.

**Gears for Scientific Success:
COSEE Professional Development Workshop
for Early Career Scientists**
Ocean Sciences Meeting 2014 – Honolulu, HI



COSEE Professional Development Series

Gear descriptions by section

Gear #1: Deconstruct Your Science

When translating scientific research, it helps to break down your message into its key components. This gear focuses on two methods for deconstructing your message including Concept Mapping and Storytelling.

Gear #2: Understand How People Learn

What does educational research say about how people learn and what can this tell us about effective ways to teach our students and communicate with the public? This gear focuses on sharing some information about how people learn, and sets the stage for incorporating effective strategies for learning into your practice as you share science with various and diverse audiences.

Gear #3: Build Effective Communication Techniques

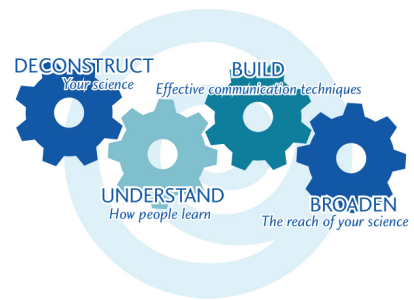
Learners build an understanding of the world around them through their experiences, motivation, and social interactions. This gear includes information about how you can apply concepts, and effective practices and strategies gleaned from the learning sciences, into your education and outreach efforts.

Gear #4: Broaden the Reach of Your Science

The ability to share your scientific message with those outside your research group is critical for career advancement. With funding trends moving towards large collaborative research programs, it is more important than ever that scientists collaborate not only within their discipline, but also across and beyond scientific disciplines. The focus of this gear is on networking and collaboration techniques that will help you develop and disseminate your message to potential collaborators and the general public.

This workshop is sponsored by the Centers for Ocean Sciences Education Excellence (COSEE) and the National Science Foundation.

**Gears for Scientific Success:
COSEE Professional Development Workshop
for Early Career Scientists**
Ocean Sciences Meeting 2014 – Honolulu, HI



Contact Information

Bob Chen

Bob.Chen@umb.edu

*COSEE Ocean Communities in Education And social
Networks (OCEAN)*

Annette deCharon

annette.decharon@maine.edu

COSEE Ocean Systems

Carrie Ferraro

ferraro@marine.rutgers.edu

COSEE Networked Ocean World (NOW)

Catherine Halversen

chalver@berkeley.edu

COSEE California

Liesl Hotaling

lieslhotaling@yahoo.com

COSEE Networked Ocean World (NOW)

Kristin Hunter-Thomson

hunterthomson@marine.rutgers.edu

COSEE Networked Ocean World (NOW)

Sage Lichtenwalner

sage@marine.rutgers.edu

COSEE Networked Ocean World (NOW)

Janice McDonnell

mcdonnel@marine.rutgers.edu

COSEE Networked Ocean World (NOW)

Ari Daniel Shapiro

ari.daniel.shapiro@gmail.com

COSEE Networked Ocean World (NOW)

Jim Yoder

jyoder@whoi.edu

COSEE Networked Ocean World (NOW)