

**NE COSEE OSEI-1 Institute  
Facilitator Interview Guide  
September 2003**

Name:  
Institutional Affiliation:  
Interviewer:  
Date:

*BACKGROUND INFORMATION*

1. Have you been involved in other scientist/educator efforts?
  - If yes, please describe.
2. How did you become involved in the Institute?
  - What interested you in being involved?

*INSTITUTE PREPARATION AND PARTICIPATION*

3. As a facilitator, what were you asked to do at the Institute?
4. What communication did you have with the Institute developers about your role?
5. What was the extent of your participation? How many days?
6. Please describe how you worked with the teachers, scientists, and Institute developers during the institute?

*PROGRAM BENEFITS AND CHALLENGES – AS A FACILITATOR*

7. What were the benefits of serving as a facilitator at the Institute?
  - How did your participation in the Institute benefit you?
  - Did your work with the Institute benefit your institution? How?
8. What were the challenges of serving as a facilitator at the Institute?
9. What, if anything, could NE-COSEE do to better meet your needs as an OSEI facilitator?

*MEETING PROGRAM GOALS FOR TEACHERS*

10. One goal of the Institute was to support the development of collaborative relationships between educators and scientists. Was/how was this goal addressed during the Institute?
11. Have you been in contact with any teachers and/or scientists since the Institute?
  - If yes, please describe with whom you are working, what the nature of the interaction has been, and how the contact was initiated.
12. Did/how did the institute help to develop or expand the network of marine educators?

13. To what extent do you think teachers:

- Learned ocean science content at the Institute?
- Gained new information about participating scientists' work?
- Were exposed to effective strategies for integrating OS into their curriculum?
- Explored how to develop inquiry-based science activities for classroom use?

14. What elements of the Institute do you think need improvement to successfully meet its goals for participating teachers?

*MEETING PROGRAM GOALS FOR SCIENTISTS*

15. To what extent do you think scientists learned:

- about Middle School science education?
- how to translate their research into a Middle School science education setting?
- how to respond to NSF Criterion II?

16. What elements of the Institute do you think need improvement to successfully meet its goals for participating scientists?

*FACILITATORS' KNOWLEDGE OF NE COSEE*

17. What did you know about NE-COSEE before the Institute?

18. Did/how did your involvement in the Institute help you develop an understanding of NE COSEE?

19. Do you plan to be involved with NE COSEE in the future? If yes, how?

*RECOMMENDATIONS*

20. Do you have any other recommendations for improving the Institute?

NE-COSEE OSEI Institute  
Scientist Interview Guide  
September 2003

Name:  
Institution:  
Interviewer:  
Date:

The goals of the Institute for scientists were:

1. To share your research with the teachers
2. To gain a better understanding about Middle School science education and ways to apply this to your research proposals, i.e. NSF criterion II.
3. To facilitate collaboration with participating middle school teachers.

*BACKGROUND*

1. Please describe your work.
2. Have you been involved in other scientist/educator efforts?
  - If yes, please describe.
3. How did you become involved in the Institute?
  - What interested you in being involved?

*INSTITUTE PARTICIPATION*

4. As a scientist [presenter and participant], what were you asked to do at the Institute?
5. What communication did you have with the institute developers or facilitators regarding your role and your presentation?
6. What was the extent of your participation? How many days?
7. Please describe how you worked with the teachers, facilitators, other scientists, and Institute developers during the institute?

*PROGRAM BENEFITS AND CHALLENGES – AS A SCIENTIST*

8. Did your participation in the Institute benefit you personally and/or professionally? If so, how?
9. Did your work with the Institute benefit your institution? If so, how?
10. What were some of the challenges you faced at the Institute?
11. What, if anything, could NE COSEE do to better meet your needs at the Institute?

*MEETING PROGRAM GOALS FOR TEACHERS*

12. One goal of the Institute was to support the development of collaborative relationships between educators and scientists.

- Was/how was this goal addressed during the Institute?

13. Have you been in contact with any teachers since the Institute?

- If yes, please describe with whom you are working, what the nature of the interaction has been, and how the contact was initiated.

12. In what ways did you collaborate with the facilitators at the Institute?

13. One role of the facilitators was to help teachers apply the information in your presentation to the education setting.

- Did you communicate, plan or work with facilitators to consider ways the middle school teachers might best use your research?

14. To what extent do you think teachers:

- Learned ocean science content at the Institute?
- Gained new information about participating scientists' work?
- Were exposed to effective strategies for integrating OS into their curriculum?
- Explored how to develop inquiry-based science activities for classroom use?

14. What elements of the Institute do you think need improvement to successfully meet its goals for participating teachers?

*MEETING PROGRAM GOALS FOR SCIENTISTS*

15. What, if anything, did you learn about Middle School science education?

16. What, if anything, did you learn about translating and/or incorporating your science research into an Middle School education setting?

17. How, if at all, did the Institute contribute to your ability to respond to NSF Criterion II?

18. What elements of the Institute do you think need improvement to successfully meet its goals for participating scientists?

*SCIENTISTS' KNOWLEDGE OF NE COSEE*

19. What did you know about NE-COSEE before the institute?

20. What new information about NE-COSEE did you gain from your participation in the Institute?

21. Do you plan to be involved with NE-COSEE in the future? If yes, how?

*RECOMMENDATIONS*

22. Do you have any other recommendations for improving the Institute?

**OSEI-1: Introductory Day for Institute  
May 10, 2003  
Interview Guide for Teacher Participants**

*BACKGROUND INFORMATION*

Name:

School:

City/Town:

Phone:

Science courses/subjects teach [Earth science, life science, etc.]:

Grade levels:

# of students:

Other roles in school:

1. How did you hear about the NE-COSEE Ocean Science Education Institute?
2. What, if anything, had you heard about NE-COSEE before coming today?
  - What did you learn about the Center from attending the Institute?
3. What interested you about the Institute? Why did you decide to come?
4. What did you learn at the workshop?
5. What parts of the day were most interesting, informative, or useful to you?
  - David Gallo: The World of Ocean Science
  - Kathy Brown: Science, Sense-Making and the Middle School Learner
  - Sue Nourse/Don Lewis, Diamond Back Terrapins
  - Afternoon discussion groups
  - Informal conversations/discussions.
6. How have you/how do you expect to use what you learned from the first day?

7. OSEI planners have three goals for the Institute. How well do you think these goals were addressed during this first day?
  - Goal 1: Develop collaborations between educators and researchers.
    - Do you feel the day contributed to this goal? If so, how?
    - Have you contacted other participants since the May meeting?  
Teachers from your school, teachers from other schools, researchers, facilitators?  
If not, do you plan to contact any other participants before July?
  - Goal 2: Introduce teachers to Ocean Science issues and relevant research.
    - Do you feel the day contributed to this goal? If so, how?
    - What issues or relevant research were of particular interest to you?
  - Goal 3: Demonstrate how hands-on ocean science activities can be used to teach to the standards/curriculum frameworks.
    - Do you feel the day contributed to this goal? If so, how?
    - To what extent do you already use inquiry-based approaches?
    - What constraints do you face if you want to use an inquiry-based, or 'hands-on' approach?
    - What role do national science standards/local frameworks play in what you teach at your school?
8. What would have made the workshop more useful to you?
9. What would you like to learn more about, learn to do, or gain from your participation in July?

NE COSEE  
OSEI 2<sup>nd</sup> Follow-up Day Survey  
January 31, 2004

The purpose of this survey is to help inform the program designers about how effective the OSEI experience is and how to improve it. Your time is greatly appreciated.

Name:

**RESPONSE TO 2<sup>ND</sup> FOLLOW-UP DAY**

1. What did you gain from your participation in *today's* Institute follow-up session?

2. In what ways if any did the different activities of the day contribute to your experience.

A. Presentations of the lessons:

B. Sharing student work:

C. Session on disseminating lessons created during the OSEI:

D. Session on resources and funding opportunities:

E. Refining lesson plans for presentation to OSEI-II:

3. What, if anything, was challenging about the day?

4. What else, if anything, could have happened today that would have been beneficial to you?

### CREATING CURRICULUM

One goal of the institute was to facilitate teacher/scientist relationships that support teachers in creating and integrating lesson(s) on current ocean science research into their curriculum.

5. Do you feel that you developed a relationship with a scientist that supported you in creating and integrating lesson(s) on current ocean science content?

6. In what ways did having a relationship with a scientist support your work?

7. What got in your way of developing the lesson(s)?

8. How could scientists provide better support?

Question	Yes	No	Plan to Spring 2004
9. Did you teach the lesson you created?			
10. Do you plan to use the lessons that were presented by other OSEI teachers?			
11. Have you shared your OSEI experiences with teachers in your school that did <i>not</i> participate in OSEI?			
12. Have you planned ways to integrate ocean science into the curriculum with your colleagues who did <i>not</i> participate in OSEI?			

13. Have your OSEI lesson plans been used by other teachers who did <i>not</i> participate in OSEI?			
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14. What would it take for the science department in your school to integrate more ocean science content into your curriculum?

15. What could NE COSEE do to help make that to happen?

**BEYOND OSEI**

16. What, if any, plans do you have to continue to use the ocean science content you have acquired during the institute?

17. What, if any, plans do you have to continue working with OSEI participants (scientists, facilitators, and teachers) beyond the institute?

NE-COSEE  
OSEI 2<sup>nd</sup> Follow-up Day Survey for Scientists  
January 31, 2004

1. What did you gain from your participation from *today's* Institute follow-up session?
  
  
  
  
  
  
  
  
  
  
2. What was particularly effective about *today's* Institute follow-up session?
  
  
  
  
  
  
  
  
  
  
3. What was not effective?
  
  
  
  
  
  
  
  
  
  
4. What changes would you recommend for future follow-up sessions?

**Relationships:**

One goal of the Institute was to facilitate teacher/scientist relationships that supported teachers in creating and integrating lesson(s) on current ocean science research into their curriculum.

5. Do you feel that you developed a *sustainable* relationship with an OSEI teacher(s)?

6. How, if at all, did the OSEI contribute to your ability to support teachers in creating and integrating lesson(s) on current ocean science content?

7. What could NE COSEE and/or OSEI do to make your involvement with teachers more effective?

8. What, if any, plans do you have to continue working with OSEI participants (scientists, facilitators, and teachers) beyond the Institute?

Questions	Yes	No
9. Has the OSEI experience increased your interest in working with other K-12 educators?		
10. Do you have plans to work with K-12 educators that are NOT part of the OSEI as a result of this experience?		

OSEI-1 Teacher Survey  
 Follow-up Day  
 December 5, 2003

Please take time to complete this survey on the OSEI. Your feedback is integral to the evaluation and will inform the institute designers on how to better meet teachers' needs. Please note that the survey is *confidential*.

**Part I: December Reflections on the Summer Institute.**

Now that you have had time to reflect on your experiences at the Institute, please assess how *successful* the Summer Institute was in meeting its goals. Using the following rating system, please mark the appropriate box.

**1=Completely successful:** You wouldn't change a thing

**2=Successful:** The goal was met, but there were *minor* improvements that could be made.

**3=Somewhat successful:** The goal was met but there were a *number* of things that needed improvement

**4=Not successful:** The goal was not met.

The Summer Institute's Goals for Teachers				
1. Using current ocean science issues and research, the OSEI increased my science content knowledge?.	1	2	3	4
2. The OSEI created a supportive learning community among the teachers and researchers.	1	2	3	4
3. The OSEI increased my understanding of how scientists conduct their research.	1	2	3	4
4. At the OSEI, I learned how to use ocean science research, concepts and activities to teach critical concepts and skills in a standards-based curriculum.	1	2	3	4
5. At the OSEI, I learned about available ocean science resources and networks.	1	2	3	4



## **1. The Summer Institute**

Please feel free to comment candidly about:

- the design or structure of the Summer Institute,
  
- the role of the scientists – the effectiveness of their presentations of their research, as well as their involvement in helping you plan how you could incorporate ocean science issues, concepts, and current research into your curriculum,
  
- the activities that connected to or expanded upon the scientists' presentations,
  
- the role of the facilitators during the Institute,
  
- the materials and resources available at the Institute.

## **Part 4. Feedback on today's follow-up meeting.**

1. How, if at all, has today's meeting helped you?

2. What would make the Institute follow-up meetings more effective for you?