

## Cascadia EarthScope Earthquake and Tsunami Education Program (CEETEP)

<http://ceetep.oregonstate.edu>

Workshop for Teachers, Interpreters, and Emergency Management Educators

August 10-13, 2015

South Slough NERR

Charleston, Oregon

<http://www.oregon.gov/dsl/SSNERR/Pages/interpcenterdetails.aspx>

**Primary room: Auditorium**

Secondary room: Downstairs Classroom

<b>Monday, August 10 (Day 1)</b>	
Cascadia plate tectonics, earthquakes and tsunamis; Seismic and GPS monitoring: Earthquake and distant tsunami preparedness	
<b>8:30</b>	<b>Breakfast (Served in Downstairs Classroom)</b>
9:00	Introductions: CEETEP, EarthScope, Participants, Instructors (Beth Pratt-Sitaula, Bob DeGroot) <u>Please sit with your Action Team. Tables will be marked.</u>
<b>10:15</b>	<b>Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>
10:30	Beauty and the Beast: Plate Tectonics and Geological Hazards of the Pacific Northwest (Bob Butler)
12:00	Thoughts/questions/reflection (Beth Pratt-Sitaula, Bob Butler)
<b>12:15</b>	<b>Lunch (Served in Downstairs Classroom)</b>
1:00	Basics of Earthquake and Tsunami Science and Hazards and Related Teaching Activities (Bob Butler, Bonnie Magura, Roger Groom)
<b>3:15</b>	<b>Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>
3:30	Surviving a Cascadia Subduction Zone Earthquake (Sue Graves, Bob DeGroot)
4:30	Reflection, Questions, Implications (Beth Pratt-Sitaula, Sue Graves)
5:10	Forms: Reimbursements; Stipends; Photo Permissions; Logistics for Day 2 Field Trip (Nancee Hunter, Beth Pratt-Sitaula)
<b>5:30</b>	<b>Adjourn</b>

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<b>Tuesday, August 11 (Day 2)</b>		<b>Field Trip Activities</b>	
Field Trip: Cascadia earthquake and tsunami geology; EarthScope GPS installation; Earthquake and tsunami emergency planning			
<b>7:30 Breakfast (Served in Downstairs Classroom)</b>			
8:00	Depart South Slough NERR (designated car pools will be arranged Day 1)		
8:10	<b>Stop 1:</b> South Slough Estuary (Bob Butler, Roger Groom)	<u>Tsunami Geology</u>	Core for buried soils and discuss the varied evidence used to determine Cascadia's Great Quake and tsunami history.
11:00	Drive to Shore Acres State Park		
11:20	<b>Stop 2:</b> Interpretive site (Nancee Hunter)	<u>Beauty and the Beast; Interpreting hazard topics</u>	Brainstorm about interpretive opportunities at parks and museums.
<b>12:20 Lunch: Shore Acres State Park picnic area</b>			
1:00	Drive to Bandon's Coquille Point Beach Access		
1:45	<b>Stop 3:</b> Evacuation Walk (Sue Graves, Michael Murphy)	<u>Tsunami Evacuation Route</u>	Includes time to think about and discuss hazards, infrastructure, and solutions.
3:00	Drive to GPS station		
3:15	<b>Stop 4:</b> GPS Station P364 (Beth Pratt-Sitaula)	<u>GPS Station</u>	Visit component of EarthScope Plate Boundary Observatory (PBO) and discuss how movements of Earth's surface tell us about earthquake hazard.
4:00	Drive back to South Slough		
<b>4:30 Adjourn</b>			

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<b>Wednesday, August 12 (Day 3)</b>	
Cascadia earthquake and tsunami science and activities; Local tsunami preparedness; Native American oral histories; Pedagogical exchange among educators; Action Team planning	
<b>8:30 Breakfast (Served in Downstairs Classroom)</b>	
9:00	Cascadia Earthquakes and Tsunami and Related Teaching Activities (Bob Butler, Bonnie Magura, Roger Groom) <u>Please sit with your Action Team. Tables will be marked</u>
<b>10:30 Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>	
10:45	Cascadia Earthquakes and Tsunami and Related Teaching Activities (Bob Butler, Bonnie Magura, Roger Groom)
12:00	Thoughts/questions/reflection (Bob Butler, Bonnie Magura, Roger Groom)
<b>12:15 Lunch (Served in Downstairs Classroom)</b>	
1:00	Tsunami: Are You Ready? (Sue Graves)
1:45	Native American Oral Histories (Beth Pratt Sitaula)
2:30	<u>Birds-of-a-Feather Breakouts</u> : How do I relate earthquake/tsunami science and preparedness to my learners at my venue? ( <u>Interpreters</u> : Nancee Hunter & Bob DeGroot; <u>EM Educators</u> : Beth Pratt-Sitaula & Sue Graves; <u>Teachers</u> : Bob Butler, Bonnie Magura, Roger Groom)
<b>3:15 Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>	
3:30	<u>Science Storytelling through Interpretation</u> : CEETEP team presents example of "Group Interpretive Program" from 2013 Workshop.
3:45	<u>Exchange of Pedagogies</u> : Working Together in Coastal Communities to Engage Students, Visitors and Residents on Earthquake and Tsunami Science and Preparedness (Nancee Hunter)
4:15	<u>Action Teams</u> : Teams work on Community Educational Project on earthquake and tsunami science and preparedness. They will present their project plan during Day 4 of this workshop, and the results of implementation at the March 5, 2016 Share-A-Thon in Brookings, OR.
<b>5:30 Adjourn</b>	

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<b>Thursday, August 13 (Day 4)</b>			
Community earthquake and tsunami preparedness; Action Team presentations and post-workshop action plans			
<b>8:30 Breakfast (Served in Downstairs Classroom)</b>			
9:00	Digital Resources (Beth Pratt-Sitaula, Bob DeGroot)		
9:55	Preparedness for Post-Event Personal and Community Survival (Sue Graves)		
<b>10:40 Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>			
10:55	Break Out Sessions	<b>Auditorium</b> Tsunami Vertical Evacuation Structures (Roger Groom) Teachers	<b>Downstairs Classroom</b> Hazard Inventory (Bonnie Magura, Sue Graves) <b><u>Interpreters &amp; EM Educators</u></b>
11:40	Switch between breakout sessions		
11:45	Break Out Sessions	<b>Auditorium</b> Tsunami Vertical Evacuation Structures (Roger Groom) <b><u>Interpreters &amp; EM Educators</u></b>	<b>Downstairs Classroom</b> Hazard Inventory (Bonnie Magura, Sue Graves) <b><u>Teachers</u></b>
<b>12:30 Lunch (Served in Downstairs Classroom)</b>			
1:15	<u>Action Teams</u> : Final preparations for presentations and discussion about the task, schedule, and logistics for each Action Team to develop their March 7, 2015 Share-a-Thon products.		
2:30	<u>Action Teams</u> : Present their ideas for development of Community Educational Programs on earthquake/tsunami science and preparedness. 15 minutes total per group (10 minutes presentation; 5 minutes discussion). Groups are encouraged to model how they will present specific concepts in different educational settings.		
<b>3:45 Break (Coffee/tea in Auditorium; other snacks in Downstairs Classroom)</b>			
4:00	Post-Workshop Assessment (Michael Coe, Beth Pratt-Sitaula). Focus groups will be held by educator type (teachers, interpreters, EM educators). When you are not in a focus group, you will be taking the post-workshop survey.		
<b>5:30 Adjourn</b>			