

Cascadia EarthScope Earthquake and Tsunami Education Program (CEETEP)

<http://ceetep.oregonstate.edu>

Workshop for Teachers, Interpreters, and Emergency Management Educators
October 10-13, 2014

Olympic Natural Resources Center
Forks, Washington

<http://www.onrc.washington.edu/>

Primary room: Hemlock Forest Room

Secondary room: Library

Friday, October 10 (Day 1)	
Cascadia plate tectonics, earthquakes and tsunamis; Seismic and GPS monitoring: Earthquake and distant tsunami preparedness	
8:30	Breakfast (Served in Social Room)
9:00	Introductions: CEETEP, EarthScope, Participants, Instructors (Beth Pratt-Sitaula) Please sit with your Action Team. Tables will be marked.
10:15	Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)
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)
12:15	Lunch (Served in Social Room)
1:00	Basics of Earthquake and Tsunami Science and Hazards and Related Teaching Activities (Bob Butler, Bonnie Magura, Roger Groom)
3:15	Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)
3:30	Surviving a Cascadia Subduction Zone Earthquake (Brynné Walker, Bob DeGroot)
4:30	Forms: Reimbursements; Stipends; Photo Permissions; Logistics for Day 2 Field Trip (Nancee Hunter, Beth Pratt-Sitaula)
4:45	Reflection, Questions, Implications (Beth Pratt-Sitaula, Brynné Walker)
5:30	Adjourn

Saturday, October 11 (Day 2)		Field Trip Activities	
Field Trip: Cascadia earthquake and tsunami geology; EarthScope GPS installation; Earthquake and tsunami emergency planning			
7:30	Beakfast (Served in the Social Room)		
8:00	Depart ONRC (designated car pools will be arranged Day 1)		
9:30	Stop 1: Waatch Prairie (Brian Atwater, David Yamaguchi, Bob Butler)	<u>Tsunami Geology</u>	Core for buried soils and discuss the varied evidence used to determine Cascadia's Great Quake and tsunami history.
10:50	Drive to Makah Senior Center		
11:00	Stop 2: Evacuation Walk (Brynné Walker, Andrew Winck)	<u>Tsunami Evacuation Route</u>	Includes time to think about and discuss hazards, infrastructure, and solutions.
12:15	Drive to Makah Cultural and Research Center		
12:30 Lunch: Makah Cultural and Research Center			
1:00	Stop 3: Interpretive site (Nancee Hunter, Paul Gleeson)	<u>Beauty and the Beast;</u> <u>Interpreting hazard topics;</u> <u>Ozette landslide</u>	Brainstorm about interpretive opportunities and presentation on the Ozette landslide.
2:00	Drive to GPS station		
3:20	Stop 4: GPS Station P401 (Ken Austin, Beth Pratt-Sitaula)	<u>GPS Station; NOAA weather balloon launch</u>	Visit component of EarthScope Plate Boundary Observatory (PBO) and discuss how movements of Earth's surface tell us about earthquake hazard. Watch a NOAA weather balloon launch.
4:10	Drive back to ONRC		
4:30	Adjourn		

Sunday, October 12 (Day 3)	
Cascadia earthquake and tsunami science and activities; Local tsunami preparedness; Native American oral histories; Pedagogical exchange among educators; Action Team planning	
8:30 Breakfast (Served in the Social Room)	
9:00	Cascadia Earthquakes and Tsunami and Related Teaching Activities (Bob Butler, Bonnie Magura, Roger Groom) Please sit with your Action Team. Tables will be marked
10:30 Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)	
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)
12:15 Lunch (Served in Social Room)	
1:00	Tsunami: Are You Ready? (Brynné Walker)
1:45	Native American Oral Histories (Beth Pratt Sitaula)
2:30	<u>Science Storytelling through Interpretation</u> : CEETEP team presents example of "Group Interpretive Program" from 2013 Workshop.
2:45	<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 de Groot; <u>EM Educators</u> : Beth Pratt-Sitaula & Brynne Walker; <u>Teachers</u> : Bob Butler, Bonnie Magura, Roger Groom)
3:30 Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)	
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 7, 2015 Share-A-Thon in Quinalt, WA.
5:30 Adjourn	

Monday, October 13 (Day 4)										
Community earthquake and tsunami preparedness; Action Team presentations and post-workshop action plans										
8:30	Breakfast (Served in the Social Room)									
9:00	Digital Resources (Beth Pratt-Sitaula, Bob DeGroot)									
9:55	Preparedness for Post-Event Personal and Community Survival (Brynné Walker)									
10:40	Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)									
10:55	<table border="0"> <tr> <td>Break Out Sessions</td> <td>Hemlock Forest Room</td> <td>Library</td> </tr> <tr> <td></td> <td>Tsunami Vertical Evacuation Structures (Roger Groom)</td> <td>Hazard Inventory (Bonnie Magura, Brynné Walker)</td> </tr> <tr> <td></td> <td><u>Teachers</u></td> <td><u>Interpreters & EM Educators</u></td> </tr> </table>	Break Out Sessions	Hemlock Forest Room	Library		Tsunami Vertical Evacuation Structures (Roger Groom)	Hazard Inventory (Bonnie Magura, Brynné Walker)		<u>Teachers</u>	<u>Interpreters & EM Educators</u>
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12:30	Lunch (Served in Social Room)									
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.									
3:45	Break (Coffee, tea, juice, snacks served in Lobby/Interpretive area)									
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.									
5:30	Adjourn									