Earthquake-Tsunami Science & Preparedness Workshops for Coastal Educators
K-12 Teachers; Park and Museum Interpreters; Emergency Management Educators

CEETEP 5: August 10-13, 2015, Coos Bay, Oregon

CEETEP 6: October 9-12, 2015, Arcata, California

Cascadia EarthScope Earthquake and Tsunami Education Program (CEETEP) is a professional development program for Earth science, natural history, and preparedness educators in the Cascadia region of Oregon, Washington and northern California. Through a grant from the EarthScope Program of the National Science Foundation (NSF), CEETEP offers four-day workshops to foster community engagement of earthquake science and preparedness, and to encourage collaboration and exchange between formal and informal educators.

EarthScope is a multi-decade effort to explore the structure and evolution of the North American continent. It includes seismic, GPS, and other geophysical instruments to monitor the Cascadia Subduction Zone and advance our understanding of the region’s geohazards. Each workshop includes K-12 teachers, park and museum interpreters, and emergency management educators. Through a problem-solving approach to subduction zone geology, participants learn how: 1) geoscientists developed our current understanding of Pacific Northwest plate tectonics, earthquakes, and tsunamis; 2) EarthScope is advancing knowledge about the active Earth in Cascadia; and 3) collaboration on education, interpretation, and preparedness makes coastal communities more resilient to earthquake and tsunami hazards. Three days of classroom and interpretive activities on Pacific Northwest geology, EarthScope science, and hazard preparedness are complemented by a field day investigating Cascadia earthquake and tsunami geology and preparedness sites and visiting seismic and GPS installations.

CEETEP 5: August Workshop
August 10-13, 2015 (Monday-Thursday)
South Slough National Estuarine Research Reserve Visitor Center, Charleston, OR (Coos Bay area)
→ Primarily for Douglas, Coos, and Curry counties.

CEETEP 6: October Workshop
October 9-12, 2015 (Friday-Monday)
Humboldt State University, Arcata, CA
→ Primarily for Del Norte and Humboldt counties.

CEETEP Spring Share-a-thon*
March 5, 2016 (Saturday)
Location TBD (likely in Brookings, OR)
* For all August and October workshop participants

Anticipated Topic & Activity Schedule

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<tr>
<th>Day</th>
<th>Topic</th>
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<tr>
<td>1</td>
<td>Cascadia plate tectonics, earthquakes and tsunamis; seismic and GPS monitoring: preparedness steps</td>
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<td>2</td>
<td>Field Trip – Cascadia earthquake and tsunami geology; EarthScope seismic and GPS installations; Resilience planning</td>
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<td>3</td>
<td>More earthquake and tsunami science and activities: Native American oral histories; interpretive program development; pedagogical exchange between educators</td>
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<td>4</td>
<td>Community earthquake and tsunami preparedness and action plans</td>
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Participants will receive (paid for by the NSF grant):
1. Forty hours of continuing professional development units
2. Travel, housing and food expenses, as needed
3. Earth science field-trip experience
4. $100/day stipend for workshop participation outside regular workdays (must attend all four days of one workshop as well as a 1-day follow-up Share-a-thon). For those who cannot accept stipends, equivalent funds can be made available for posters, exhibits, signage, or other educational or interpretive materials.
5. Substitute costs (for October workshop teachers)
6. Materials for inquiry-based classroom and interpretive studies of earthquakes, tsunamis, EarthScope science and hazard mitigation. (Books; DVDs with Earth science movies, animations and visualizations; and a kit with materials for classroom and interpretive demonstrations and activities).
7. Opportunity to join the Quake Catcher Network and have a seismometer installed at your educational or public institution. QCN has over 120 team members collecting earthquake data in California, Oregon, Washington, and Alaska – all data available online for education and research.
8. CEETEP instructors may be available for follow-up visits to participants’ classrooms, parks, museums, or other sites for additional discussion and training. They will be happy to assist with classroom activities as well as interpretive programming, exhibits, and signage development.

To apply:
An online application is available at http://ceetep.oregonstate.edu. Questions? Please contact us at ceetep@oregonstate.edu. Application deadline is March 15, 2015 for the August workshop, and May 15, 2015 for the October workshop.

CEETEP Principal Investigators and Lead Instructors:
Robert F. Butler, University of Portland
Nancee Hunter, OSU Hatfield Marine Science Center-Oregon Sea Grant
Beth Pratt-Sitaula, Central Washington University

California Collaborators:
Robert de Groot, Southern California Earthquake Center
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