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*Join us for the 2013 Annual Conference at Southwestern Oregon Community College in beautiful Coos Bay, Oregon.*

*Registration information and forms are here! Get your abstracts in for presentations and posters! See you there!*



**From the President**



I hope Winter Term is treating you all well. I have two items to address that both deal with the future of the section. The first is easy. With a cast of thousands (or at least a few) I look forward to many of you returning to Coos Bay in June 2013 for the Annual Conference. We've got a great set of trips over four days-with a few stops that are oldies but goodies (Shore Acres, Sunset Bay, Face Rock and stops around the Coquille River) and a bunch of new localities including: Blacklock Point, Cape Blanco, South Cove at Cape Arago, Whisky Run and the Coquille Tribe's Community Plankhouse. We'll start at Blacklock and finish at my house for a closing night BBQ. For a new twist, we'll incorporate the posters into the banquet on conference day (Wednesday). That will give us a chance to socialize while reviewing the posters in a casual setting. If you haven't yet, mark June 24 through 28 on your calendar and check out conference details elsewhere in this newsletter and on the web.

On a different note, as this newsletter is being distributed, a number of section officers are meeting to discuss the future of the section, including how we can strengthen the membership and what can be done to improve the section. The good news: the Pacific Northwest Section is frequently identified by National NAGT for the quality of our newsletter and annual field conference. On a note of concern, we follow National NAGT with a trend of decreasing membership. In 2008-09 we had a section membership of 125, while the recent disbursement of dues from National that was just delivered to the section treasurer indicates a current membership of just 94. This has been brought up in the past, but from the top down we have not actively pursued a major membership push. The bottom line is only a minor decrease in funds, \$77.50 less this year than 2008-09. However, that's fewer people directly supporting our organization at both the local and national levels. That's not good for the long-term outlook.

The good note is the conferences. Towards that end I hope to see you in Coos Bay this June, and when you have a minute, check to see that your NAGT membership hasn't lapsed.

--Ron



### Join us in Coos Bay, Oregon for the 2013 Annual Conference!

**Southwestern Oregon Community College  
Coos Bay, Oregon  
June 24<sup>th</sup> - 28<sup>th</sup>, 2013**

Great coastal geology abounds at this year's annual conference. Hosted by Southwestern Oregon Community College, this meeting features four full field trip days, new stops at many locations, and a chance to share techniques and learn from your colleagues.

Register now! We need your enthusiasm and ideas to make this conference a success.

### Call for Abstracts



**National Association of  
Geoscience Teachers**

2013 Summer Conference  
National Association of Geoscience Teachers  
Pacific Northwest Section

**Conference Day: Wednesday, June 26, 2013**  
**Deadline for abstracts – May 1, 2013**

If you would like to present a talk (20 minutes) or poster (geology research, undergraduate research, teaching research, etc.) submit your abstract to Ron Metzger at [rmetzger@socc.edu](mailto:rmetzger@socc.edu). Some invited talks may be given 30 minutes for oral presentation. Please include **"NAGT Conference Abstract"** in the subject heading of your email.

Make sure that your abstract includes:

- Whether an oral presentation or poster will be submitted
- Title
- Author(s) name, affiliation, and **contact email addresses**
- Abstract length 1 full page (8.5 x 11") in Times Roman, 12-point font. You may include legible line diagrams, graphs or tables. Must maintain at least .75" margin on all four sides.
- Deadline – May 1, 2013

*\* Due to the limited amount of time during conference day, acceptance for oral presentations will be based on **first submitted, first granted basis**. If time slots for oral presentations fill before the deadline date, you'll be contacted in regards to a poster option.*

### Conference Schedule/Field Trip Descriptions

In 2005, Southwestern Oregon Community College in Coos Bay hosted the Pacific Northwest Section of NAGT field conference. Eight years later, some of the stops remain the same, however, there are a **number of new localities** that will be shared with you. The four days of field excursions will provide an overview of coastal processes and geology on the leading edge of the North American continent.

All field trips include a field guidebook, transportation, and lunch.



#### Day 1: Monday, June 24<sup>th</sup>

##### Field Day: Blacklock Point and Cape Blanco

Leader: Frank Hladky

**Fig. 1** Picturesque sea stacks: Battle Rock near Port Orford

This trip takes us on “the leading edge”! The hike out to Blacklock Point is roughly 45 minutes across forested Pleistocene Terrace. At Blacklock Point, views to the north show the terrace decreasing in elevation and transected by a series of drainages. The view to the south provides a shot of Cape Blanco, the second furthest west point in the continental 48 states. Exposures at Blacklock Point are located along the shear zone and include folded bedded

chert, volcanic breccias, and agglomerate. Cape Blanco will provide an opportunity to observe sea stack formation, an *in situ* Pleistocene mollusk horizon, marine terraces and a variety of Cenozoic sedimentary formations. We will conclude the day with a visit to Battle Rock in Port Orford to view and discuss the interaction between geology, landscapes, and cultural history.

\*\*\*\*\*

#### Day 2: Tuesday, June 25<sup>th</sup>

##### Field Day: Oregon Dunes National Recreation Area and Coquille Community Plankhouse

Leaders: Ron Metzger (Oregon Dunes); Nicole Norris, Jesse Davis, and the Coquille Tribe Youth Corps (Coquille Tribe Community Plankhouse)

A motorized dune trip allows participants an easy transect across the coastal dune sheet. We will be stopping in the Oregon Dunes at the John Dellenback Trailhead/Eel Creek Campground. The ½ mile hike out to the dunes at this stop provides an opportunity to observe both a transitional setting and large oblique dunes. Following the dune exploration, we will get an overview of local cultural history at the Coquille Tribe’s Community Plankhouse.

**Fig. 2** Oregon Dunes: Migration continues





## 2013 ANNUAL CONFERENCE

### Day 3: Wednesday, June 26<sup>th</sup>

**Conference Day:** Presentations and Posters @ Southwest Oregon Community College  
Evening Banquet with no host bar.

Conference participants will receive guidebook with abstracts. Coffee breaks and lunch are included.

\*\*\*\*\*

### Day 4: Thursday, June 27<sup>th</sup>

#### Field Day: Seven Devils and the Bandon Area

Leader: Ian Madin

This trip explores the geology south of Cape Arago along the Seven Devils and stopping at Whiskey Run. Stops in and around Bandon will include Bullard's Beach, submerged forest Bandon Marsh, the south jetty at Bandon (blueschist), and Face Rock.

**Fig. 3** *Face Rock: One of the memorable sea stacks near Bandon, Oregon*



\*\*\*\*\*

### Day 5: Friday, June 28<sup>th</sup>

#### Field Day: Cape Arago and the Metzger's BBQ

Leaders: Frank Hladky and Ron Metzger

Cape Arago provides the setting for some of the most scenic geology on the Oregon Coast. This trip makes stops at Sunset Bay to look at terrace development, deltaic deposits and faulting, Shore Acres to see a photogenic angular unconformity and make a connection to the local history of the region, and South Cove to observe a variety of soft sediment deformation structures. Participants have the optional opportunity to tour a sea cave and discuss changing landscapes in this context. (Flashlights needed!)

We'll end this exciting day with a BBQ and a tour (non-collecting) of the Metzger Rock Garden



**Fig. 4** *Concretions in the Coaledo Formation at Shore Acres*

### SILENT AUCTION TO BE HELD AT 2013 CONFERENCE BANQUET

If you have old geology books, rock, fossil or mineral samples, or any other items to donate, please bring them to Coos Bay. A silent auction will be held at the Wednesday night banquet to raise money for student grants to attend the section conference! Bring your donations, come ready to bid!



# National Association of Geoscience Teachers

## 2013 Summer Conference Registration National Association of Geoscience Teachers Pacific Northwest Section Early Registration Deadline is May 15<sup>th</sup>

NAME: \_\_\_\_\_  
STREET ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
PHONE NUMBER: \_\_\_\_\_  
E-MAIL: \_\_\_\_\_ NAGT Member? YES/NO \_\_\_\_\_  
NAME & AFFILIATION (for name tag): \_\_\_\_\_

		After May 15 <sup>th</sup>	Students
<b>EVENTS</b>			
<b>June 24<sup>th</sup>:</b>	Field Trip – Geology of Blacklock Point and Cape Blanco. Fee = \$30 _____ ➤ Includes transportation, guidebook, and lunch.	\$40 _____	\$25 _____
<b>June 25<sup>th</sup>:</b>	Field Trip – Geology of Oregon Dunes and local cultural history at the Coquille Community Plankhouse. Fee = \$30 _____ ➤ Includes transportation, guidebook, and lunch.	\$40 _____	\$25 _____
<b>June 26<sup>th</sup>:</b>	Conference Day @ SWOCC with Banquet that evening. Fee = \$30 _____ ➤ includes guidebook w/abstracts, coffee breaks, and lunch. ➤ evening banquet (no host bar). ➤ extra people for evening event. Fee = \$20 each _____	\$40 _____	\$25 _____
<b>June 27<sup>th</sup>:</b>	Field Trip – Geology south of Cape Arago along Seven Devil's and around Bandon, Oregon. Fee = \$30 _____ ➤ Includes transportation, field guide, and lunch.	\$40 _____	\$25 _____
<b>June 28<sup>th</sup>:</b>	Field Trip – Geology of Cape Arago, followed by BBQ and rock garden tour at The Metzger's. Fee = \$30 _____ ➤ Includes transportation, field guide, and lunch. ➤ extra people for evening event. Fee = \$10 each _____	\$40 _____	\$25 _____

**STUDENTS:** Apply for student grant by completing the application in this newsletter or applying online.

**TOTAL AMOUNT ENCLOSED \$** \_\_\_\_\_

Please **make checks payable to** Southwestern Oregon Community College (sorry, no credit cards). Mail to:

Ron Metzger  
Southwestern Oregon CC  
Geology Department  
1988 Newmark Avenue  
Coos Bay, OR 97420

## On Campus Housing

The dorms at SWOCC are suites with single beds and a community space. The rates for on campus housing are \$36 per night, which includes: linens/bed sheets, towels, soap, coffee pot/coffee, clock, lamps, telephone, towel change if staying longer than two nights. There is a "bare bones" option at \$18 per night that gets you a place to sleep – bed, toilet paper, and the dorm is furnished as well with a kitchen table and couches. You may check into the dorms on Sunday 6/23 and depart Saturday 6/29 if staying for the entire conference.

The following link includes an image gallery where you can get a general idea of the accommodations: <http://www.socc.edu/housing/pgs/apartments/index.shtml>. For additional lodging option see next page.

To register for campus housing, please complete the form below. Registration and housing costs can be combined in a single check to SWOCC.

I would like to register for Campus Housing:

\$36/night x \_\_\_\_\_ nights

Total for housing: \$ \_\_\_\_\_

\$18/night x \_\_\_\_\_ nights

Total for housing: \$ \_\_\_\_\_

## Student Grant Application

The Pacific Northwest Section of NAGT will award up to four student grants of \$100 each to help defray the costs of students attending the 2013 conference in Coos Bay, Oregon. Grants will be applied directly towards the registration fees, with any additional registration costs being the responsibility of the student. Please fill in the contact information below, plus include a statement indicating what you hope to gain through attending the conference. Please do not pay for registration until after you hear about grant results.

**Submit to section President Ron Metzger at [rmetzger@socc.edu](mailto:rmetzger@socc.edu) by May 15<sup>th</sup>, 2013.**

NAME: \_\_\_\_\_

STREET ADDRESS: \_\_\_\_\_

\_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

E-MAIL: \_\_\_\_\_ NAGT Member? YES/NO \_\_\_\_\_

SCHOOL and ACADEMIC YEAR: \_\_\_\_\_

NAME OF A FACULTY REFERENCE: \_\_\_\_\_

ARE YOU SUBMITTING AN ABSTRACT: YES/NO \_\_\_\_\_

### Ron Kahle Awards Helping K-12 Attend the PNW NAGT Conferences

Thanks to a generous donation by Mr. Ron Kahle, K-12 science teachers can apply for grants to cover the cost of attending our PNW NAGT Annual Sectional Conference. Each award covers the cost of meeting registration, including the conference day and field trips. To apply, follow this simple five-step email application process:

- List the conference events costs (conference day, banquet, and any field trips) for which you intend to register.
- State whether you are a NAGT member (membership is not required, but existing members will be given first preference during consideration.)
- Indicate where and what your job in K-12 earth science education is.
- List some of the professional development benefits you hope to gain from attending the conference.
- Email to **Ron Metzger**, Section President, at **[rmetzger@socc.edu](mailto:rmetzger@socc.edu)**

And that's not all! -- If a person is not an NAGT member, we will also award him or her with a one-year NAGT membership and all membership privileges.

**The deadline to apply for a Ron Kahle Award is May 15th, 2013.**

### Additional Lodging/Camping Options for 2013 Coos Bay Conference

Interested in off-campus housing? Here are two links that might help you in your search:

Visitor's Center:

<http://www.oregonadventurecoast.com/>

Bay Area Chapter:

<http://www.oregonsbayarea.org/visitorsinfo/coos-bay-north-bend-charleston-lodging-hotels-motels.htm>

Camping is available at:

Sunset Bay State Park:

[http://www.oregonstateparks.org/park\\_100.php](http://www.oregonstateparks.org/park_100.php)

Bastendorff Beach:

<http://www.co.coos.or.us/Departments/CoosCountyParks/Bastendorff.aspx>

**All conference materials can be found  
at the NAGT Website:  
[www.nagtpnw.org](http://www.nagtpnw.org)**







### Craters of the Moon National Monument to offer geology seminar for college credit

Douglas Owen  
National Park Service

Craters of the Moon's geology seminar is available for college credit from the College of Southern Idaho and/or Boise State on July 13 & 14, 2013. The seminar is taught in the monument by the park geologist. Call Doug Owen (208.527.1331) to make a reservation or to obtain more information. At least half of the seminar will be spent in the field studying geologic features.

This seminar will introduce participants to the regional geology, Craters of the Moon geology and the many features found there. It will also explore both past and ongoing geologic processes. Topics include:

Crustal Extension; Basin and Range Faulting  
Volcanic Rifts and other faults  
Eastern Snake River Plain Faults; Borah Peak Fault  
Mid-Crustal Sill; Isostatic Response  
Regional Geology; Yellowstone Hot Spot; Cascade Volcanism track to Newberry Crater  
Decompression Melting; Neutral Buoyancy  
Eruptive and Non-eruptive Fissures  
Cinder and Spatter Cones, Shield Volcanoes  
AA; Block Lava; Shelly, Spiny, & Slabby Pahoehoe  
Tachlyte vs. Obsidian  
Cooling Cracks; Columnar Joins  
Blisters; Tumuli; Squeeze-ups; Lava Toes  
Inflation; Pressure Plateaus; Vesiculation  
Flow Ridges; Flow Fronts; Rafted Blocks  
Volcanic Bombs; Tree Molds, and Pit Craters  
Assimilation; Xenoliths; Differentiation  
Kipukas; Lava Tubes and Speleothems  
Snake River Plain Aquifer  
Volcanic Hazards

### IDAHO

**38<sup>th</sup> Annual Tobacco Root Geological Society Field Conference** will be in Salmon, Idaho from July 31 to August 4, 2013. Trips are currently being planned. More information available at website: <http://www.trgs.org/>.

*Submitted by Shawn Willsey, State Councilor*

### OREGON

Southwestern Oregon Community College's **Geologic Lecture Series** are streamed lived and archived at: <http://www.socc.edu/faculty/rmetzger/pgs/lecture-series/index.shtml>

Upcoming lectures include:

**Friday, April 26, 2013 @ 7:00 pm**

**Dr. Daniel Fisher**

University of Michigan

"New Insights into the Lives of Siberian Mammoths"

Hales Center at SOCC Campus – Coos Bay

**Saturday, May 18, 2013 at 7:00 pm**

**Dr. Brandon Dugan**

Rice University

"Origin, Evolution, and Impacts of Large Submarine Landslides"

A Consortium for Ocean Leadership/U.S. Science

Support Program Distinguished Lecturer

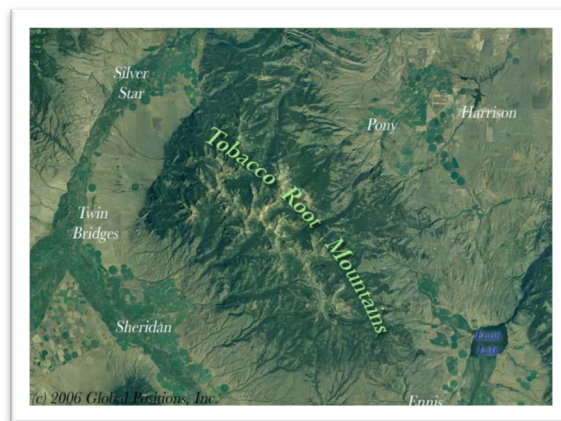
Hales Center at SOCC Campus – Coos Bay



### Deep Earth Academy – a free education workshop from the Ocean Drilling Program

This free workshop will be hosted by Southwestern Oregon CC – Coos Bay on Saturday, May 18<sup>th</sup>, 2013 from 9 am to 3 pm. Contact Ron Metzger - [rmetzger@socc.edu](mailto:rmetzger@socc.edu) for more information. Space is limited so inquire early!

*Submitted by: Ron Metzger, PNW NAGT Section President*





### OREGON

#### **Community College Faculty Institute: Using Marine Technology and Ocean Data Resources in Your Science Courses**

When: July 29 - August 2, 2013

Location: Oregon Institute of Marine Biology,  
Charleston, Oregon

COSEE Pacific Partnerships and COSEE Technology and Engineering for Knowledge (TEK) are co-sponsoring a weeklong professional development institute for community college faculty. The institute will focus on marine technology, measuring the ocean, and analyzing and using ocean data in science courses. Each day will include presentations by scientists who study these topics, curriculum materials (including lab exercises and field activities where appropriate) that could be used in a community college course, and time for participants to work on developing their own curriculum products using the information and materials presented. Particular emphasis will be placed on helping faculty develop ways to engage their students in research within the community college setting. Housing and meals will be provided and participants will receive a \$500 stipend. More information about the institute and how to apply are online at <http://www.coseepacificpartnerships.org/programs/CC/faculty/institutes/OR2013/>

*Submitted by: Coral Gerhrke, COSEE Pacific Partnership Coordinator*

#### **Find PNW NAGT on Facebook!**

Keep up-to-date with the NAGT! Cassie Strickland, PNW NAGT Vice President and Web site editor has created a Facebook page for our section. Facebook fans can find us at:

[www.facebook.com/groups/150216048427579/#!groups/150216048427579/](http://www.facebook.com/groups/150216048427579/#!groups/150216048427579/)

The name of the group is "Pacific NW Section of the National Association of Geoscience Teachers and is a great way to keep connected.

#### **Ness of Brodgar Archaeological Field School**

Willamette University has just a few spots remaining for its 4-week archaeology field school in one of the world's premier archaeology projects in The Heart of Neolithic Orkney (a UNESCO World Heritage Site). Through Willamette's exclusive relationship with the University of the Highlands and Islands, students will work with the Orkney Research Centre for Archaeology and Orkney College as they unearth a unique and immense Neolithic ritual complex on the Ness of Brodgar. This award winning and internationally recognized excavation is redefining our understanding of the Neolithic world. The field school provides intensive, on-site training in archaeological methods and techniques and emphasizes a holistic approach to archaeological inquiry. In addition to daily instruction on excavation theory, technique and recovery, course lectures and fieldwork will emphasize a variety of topics including topographical and geophysical survey techniques, stratigraphy, ceramic typology, geomorphology, paleobotany, and the archaeology and geoarchaeology of the Orkney Islands. Visits to regional archaeological sites, museums and geologic features give students a broad cultural, physical, and historical background of the region.

Information regarding the field school can be found at

*Submitted by Scott Pike, Willamette University*



### ALASKA

*Submitted by Cathy Connor, State Councilor*

#### Girls on Ice Expeditions – 2013

North Cascades (July 21-August 1): Open to all girls  
Alaska (June 21 – July 2): Alaska and PNW girls

Girls on Ice is a unique, **FREE**, wilderness **science** education program for high school girls. Each year two teams of 9 teenage girls and 3 instructors spend 11 days exploring and learning about mountain glaciers and the alpine landscape through scientific field studies with professional glaciologist, ecologists, artists, and mountaineers. One team explores Mount Baker, an ice-covered volcano in the North Cascades of Washington State. The other team sleeps under the midnight sun exploring an Alaskan glacier. See all the details and registration at <http://girlsonice.org/>.

#### Dinosaur Camp: A Family Adventure Denali National Park and Preserve

June 29 – July 1, 2013

Alaska Geographic Member - \$175.50 per person

Non-member \$195 per person

Register at:

<http://www.alaskageographic.org/static/1070/denali-dinosaurs-a-family-seminar-july-17-19>.

#### Discovery Southeast Summer Teacher Expedition Programs

Teachers can earn professional development credits in these expeditions led by veteran naturalists and professional guides. Watch a video clip from an expedition in Pack Creek on Admiralty Island! Visit the website to learn more: <http://www.discoverysoutheast.org/teacherexpeditions>.

#### Geology Field Courses @ University of Alaska Anchorage

Have a student who needs a field class? The University of Alaska Anchorage has two that might interest them:

##### GEOL 480: Geologic Field Methods

This class includes constructions of bedrock geologic maps, cross-sections, taking field notes, stratigraphic section measurement, and construction. Students are required to complete several field projects including written summary reports.

##### GEOL 481: Alaska Field Investigation

A follow up class where students complete advance field projects related to Alaskan coal and gold mining, permafrost environments, Pleistocene glacial environments, tectonics and volcanic hazards in southern and central Alaska.

More information and registration at:

<http://www.uaa.alaska.edu/geology/field/index.cfm>

#### 2013 Juneau Icefield Research Program

Check out this great opportunity for an 8-week Glaciology and Climate Science Field Camp!

When: June 21, - August 16, 2013

Where: Juneau Icefield, British Columbia and Yukon Territory, Canada

Who: Student and professional scientists!

Learn more:

<http://www.juneauicefield.com>

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