



Serving Professionals in Engineering, Environmental,
and Ground Water Geology

OREGON SECTION

NEWSLETTER

The Official Newsletter of the Oregon Section Association of Engineering Geologists

May, 2002

VOLUME 02, NUMBER 5

MAY MEETING:

Speaker: ***Ray Wells***
USGS

Talk: ***“Pacific Northwest Block Tectonics and Earthquake Hazards”***

Date: **Thursday, May 16, 2002**
(Last meeting of the year)

Times: 6:00 PM Social hour
7:00 PM Dinner
8:00 PM Talk

Where: ***Lucky Labrador Pub***
915 SW Hawthorne, Portland

Menu: \$10/person (Chicken or Vegie Bento)

Reservations: Call URS at: 503-222-7200 by **4 PM, Monday (5/13/02)** to make a meal reservation
“A reservation made is a reservation paid.” Please call to cancel if you can not attend. Thank you!

ABOUT THE TALK & RAY WELLS

Ray Wells is a very highly respected geologist for USGS with 25 year experience mapping in the Pacific Northwest. He is currently the USGS "Chief of the Pacific Northwest Urban Corridor Geologic Mapping Project." Ray will be in Oregon for the GSA meeting and has graciously agreed to provide this talk on the overview of the block tectonics of the Pacific Northwest for our Section. His talks are always very interesting and highly informative. This talk will be directed to Oregon Engineering Geology interests and will include the latest information available for understanding the area and "how it works."

Message from the Chair (May 2002)

STUDENT CHAPTER APRIL DINNER MEETING

Our Portland State University Student Chapter April dinner meeting was a huge success. The attendance was over 70 members, students, and guests. We enjoyed the attendance of Jasper Holland, one of the founders of the Oregon Section. His daughter, Nancy, attended the meeting with him. Congratulations and thanks to everyone who worked so hard to get this meeting together. This was the first dinner meeting hosted by the PSU Student Chapter. We hope to continue this as an annual event. All the posters were very good and showed the results of a lot of research and preparation. The winners of the awards for the poster judging are listed below.

Student Night Poster Awards

Best Overall Undergraduate Poster- tie:

Susan Wacaster, "Segregation Structures in Diktytaxitic Basalt Flows of NE Oregon"

Amie Lamb, "Accretionary Mechanisms of Modern Freshwater Australian Stromatolites"

Best Overall Graduate Poster- Meghan Lunney, "Compositional and Textural Zoning of Arenal Plagioclase from the 1968 to 1996 eruption of Arenal Volcano, Costa Rica"

Best Scientific Content- Robin Johnston, "Channel Morphology on Taylor Glacier, Taylor Valley, Antarctica"

Best Graphics and Overall Design - Michelle Cunico, "Localized glacier deformation associated with filling and draining of a glacier-dammed lake and implications for outburst flood hydraulics"

Student Most Likely to become an Engineering Geologist- Julie Griswold, "Inundation-area statistics and mobility equations for debris flows and rock avalanches"

Guest from Western Oregon University

We welcomed guests from Western Oregon University at the PSU Student Chapter dinner meeting. Steve Taylor, WOU Geology faculty member, attended with Environmental Geology students: Amy Poff, Chris Harrington, Denise Giles, Marc Miller, Chad Dickens, Jesse Schade, Jeremy Hull, Ondrea Morris, Lindsay McNeill, Jon Stroschine, and Ryan Adams.

VOTE FOR OREGON SECTION OFFICERS FOR 2003 –2003

Remember to send in your ballot for our Section officers for the next year. The ballot in April issue of the newsletter has the current section officers who have generously offered their time to continue to the next level of section leadership. Brent Black of Cornforth Consultants is interested in increasing his involvement with AEG as a candidate for next year's Treasurer. Ruth Wilmoth, Warren Krager, and Rowland French are on the ballot as current officers who will advance under our usual election process. Please vote and send your ballot to Warren Krager by June 1, 2002. As always, write-in votes are welcome.

WASHINGTON GEOLOGIST REGISTRATION

The grandparenting period for RG and CEG registration in Washington will close on June 30, 2002. If you want to get registration in Washington by grandparenting, do not wait until the last minute or there may not be enough time to process your application.

I look forward to seeing you at our May meeting. We will have a break in our monthly meetings for the summer. Our next dinner meeting will be in September.

Drew Harvey
AEG Oregon Section Chair

Short News Items

Green Briefcases: Remember those green briefcase bags that we have left over from the Seattle annual meeting? Well, now is the time to pick one or more up for \$5.00 each. That's less than you spend for lunch! People that already have one say "they were worth the old price of \$10.00 and I am going to buy another!" Get one before they are all gone!!

E-Mail "Newsletter:" PLEASE TAKE THE TIME TO SWITCH TO THE E-MAIL NEWSLETTER IF YOU CAN This saves the Section money and makes the editor's job much easier please send me your E – mail address to Dave Michael at [**dmichael@odf.state.or.us**](mailto:dmichael@odf.state.or.us)

AEG Homepage: check it out: [http:// www.aegweb.org](http://www.aegweb.org)

The Board of Geologist Examiners: 707 13th. St. SE, Suite 275 Salem, OR, 97301

Phone (503) 566-2837, Fax (503) 362-6393 e-mail: [**osbge@open.org**](mailto:osbge@open.org) [**www.osbge.org**](http://www.osbge.org) website for board; deadline for submitting papers for next exam is January 4; next CEG and ASBOG exams are on March 15 contact ***Susanna Knight***, Administrator for assistance with Board issues.

If you have NEWS items that you would like to include, please contact or E-mail Dave Michael – newsletter editor at [dmichael@odf.state.or.us**](mailto:dmichael@odf.state.or.us)**

Oregon Section Book: The 1998 publication "Environmental, Groundwater And Engineering Geology Applications from Oregon" Edited by Scott Burns with articles by many Oregon Section members is available from Nature of the Northwest (DOGAMI Book Store –800 NE Oregon St.), Powell's Book Store, Portland State Book Store (corner 5th and Mill), Amazon.com

"Seeking Old AEG Annual Directories". If anybody has any pre-1997 AEG annual directories, please email George Freitag at [**gfreitag@gri.com**](mailto:gfreitag@gri.com). George is trying to compile a list of old Oregon Section officers." George Freitag, CEG GRI Geotechnical and Environmental Consultants [**gfreitag@gri.com**](mailto:gfreitag@gri.com) Phone (503) 641-3478 Fax: (503) 644-8034

Cordilleran Section, Geological Society of America

GSA in Corvallis: May 13-15, 2002

Below is a schedule for the GSA in Corvallis. AEG is one of the sponsors and the sessions we are co-sponsoring are highlighted below. To get a complete listing of each of the talks in each session, go to the GSA website (www.geosociety.org) and click on meetings/Cordilleran section/technical program. You can also register there too. It is past the date for "early" registration, but you can do the "onsite" registration now. You can still sign up for field trips (many are almost full!) See you in Corvallis. PSU will be having a van going down each day from Portland if someone needs a ride. Contact Scott Burns (503-725-3389) for more information. Many thanks to all of you who are presenting papers or leading field trips.

Monday Morning, May 13, 2002: (8:00 AM – noon)

- 1) Volcanology, Volcanism, Volcanic Rocks
- 2) Unraveling the Tertiary Stratigraphy and Structure of the Pacific Northwest and Its Implications for Hydrocarbon Occurrence and Underground Gas Storage: In Honor of Alan and Wendy Niem
- 3) Coastal Paleodune Landscapes (**AEG Sponsored**)
- 4) Terrestrial Paleontology of the Pacific Northwest
- 5) Natural Hazard Monitoring Systems (**AEG Sponsored**)
- 6) Innovations in Earth Science Education: Dotti Stout Memorial Session
- 7) Volcanic Arcs and Ores: Links of Magmatic Gases with Porphyry Copper and Epithermal Gold Deposits

Monday Afternoon, May 13, 2002 (1:30-5:30 PM)

- 1) Active Tectonics of the Pacific Rim
- 2) Contributions to Tectonics and Fission-Track Dating in the Pacific Northwest: In Honor of Joe Vance
- 3) Presenting Geology to the Public in National and State Parks and Outdoor Classrooms
- 4) Jurassic Tectonics and Magmatism in Outboard Terranes from Northern California to Washington
- 5) Catastrophic Glacial Outburst Floods in the Pacific Northwest (**AEG Sponsored**)
- 6) Undergraduate Research Papers and Posters
- 7) Natural Hazard Monitoring and Warning Systems II (**AEG Sponsored**)

Tuesday Morning, May 14, 2002 (8:00 AM – noon)

- 1) Paleogeodesy: Unraveling Displacement Fields in Magmatic Arcs: In Honor of Othmar Tobisch
- 2) Architecture of Cascadia: A Synthesis of the New Geologic and Geophysical Mapping in the Forearc
- 3) Debris Flows: Theory and Practice I (**AEG Sponsored**)
- 4) Active Tectonics of Cascadia: Geodesy and Great Earthquakes
- 5) Pacific Northwest Geology East of the Cascades: In Honor of George Walker
- 6) Invertebrate Paleontology: In Honor of Ellen Moore
- 7) Geophysics and Biochemistry of Gas Hydrates and Methane Seeps on the Northeastern Pacific Margin

Tuesday Afternoon, May 14, 2002: (1:30-5:30 PM)

- 1) Applications of Geographic Information Systems in Geology and Geophysics
- 2) Klamath Mountains, Sierra Nevada, and Great Basin Tectonics and Stratigraphy
- 3) Quaternary Geology and Paleoclimate

- 4) Paleogeodesy: Unraveling Displacement Fields in Magmatic Arcs II
- 5) Pattern and Rates of Long Term Deformation Across the Washington Segment of the Cascadia Forearc High
- 6) Debris Flows: Theory and Practice II (**AEG Sponsored**)
- 7) Pacific Northwest Geology East of the Cascades II
- 8) Impact Structures

Wednesday Morning, May 15, 2002, (8:00 AM – noon)

- 1) Geology and Public Policy (**AEG Sponsored**)
- 2) Active Faults of California
- 3) The Evolving Pacific Northwest Landscape: Geomorphic and Ecologic Controls, Constraints, and Conundrums in the Quaternary
- 4) Hazards and Risks from Cascade Volcanoes (**AEG Sponsored**)
- 5) Decadal Symposium on the Geology of Washington I: in Honor of Rowland W. Tabor
- 6) Phanerozoic Subduction-related Magmatism in Mexico: Comparison with the Rest of the Cordillera
- 7) Engineering Case Histories of Landslides (**AEG Sponsored**)
- 8) Communicating Science: Lessons from the Klamath Basin

Wednesday Afternoon, May 15, 2002 (1:30-5:30 PM)

- 1) Active Faults in California
- 2) Alaskan Tectonics, Structure, and Stratigraphy
- 3) Constraints on Cretaceous Paleogeography of the Western Cordilleran Margin
- 4) Geology and Hydrology of the Willamette Basin, Oregon (**AEG Sponsored**)
- 5) Hazards and Risk from Cascade Volcanoes (**AEG Sponsored**)
- 6) Engineering Geology Case Histories of Landslides (**AEG Sponsored**)
- 7) Active Tectonics of Cascadia: Deformation in the North American Plate
- 8) Decadal Symposium on the Geology of Washington II
- 9) Groundwater and Surface Water Hydrology (**AEG Sponsored**)
- 10) Surface Effects of the Nisqually, Washington Earthquake of February 28, 2001 (AEG Sponsored)

Field Trips:

- 1) Fluvial Record of Plate Boundary Deformation in the Olympic Mountains, May 9-12, 2002, \$315
- 2) Geology and Geomorphology of the Lower Deschutes River Canyon, Oregon, May 10-12, 2002, \$410, rafting trip
- 3) Hydrogeology of the Upper Deschutes Basin, Central Oregon: A Young Basin Adjacent to the Cascade Volcanic Arc, May 10-12, 2002, \$115
- 4) North Central Oregon Cascade Margin: Exploring Petrologic and Tectonic Intimacy in a Propagating Intra-Arc Rift, May 11-12, 2002, \$95
- 5) Pleistocene and Holocene Dunal Landscapes of the Central Oregon Coast, Newport to Florence, May 11-12, 2002, \$95
- 6) Landslides of Kelso, Washington and Portland, Oregon, May 12, 2002, \$35, (AEG Sponsored)
- 7) Miocene Molluscan Fossils and Stratigraphy, Newport, Oregon, May 12, 2002, \$35
- 8) Geomorphology and Hydrology of the H.J. Andrews Experimental Forest, Blue River, Oregon, May 12, 2002, \$35
- 9) Paleobotanical Record of Eocene-Oligocene Climate and Vegetational Change Near Eugene, Oregon, May 13, 2002, \$35
- 10) Geology of the Vineyards in the Willamette Valley, Oregon, May 13, 2002, \$30
- 11) Bimodal Volcanism and Tectonism of the High Lava Plains, Oregon, May 15-17, 2002, \$190
- 12) Josephine and Coast Range Ophiolites, Oregon and California, May 15-18, 2002, \$385
- 13) Columbia River Gorge Landslides, May 16, 2002, \$35

SPRING SEMINAR SERIES, 2002

Dept. of Geology Portland State University

All seminars in Cramer Hall S17; 3:30 - 4:30 PM

April 10, 2002

**“The Great Diversity in the Geological
Wonders of Oregon**

Scott Burns, Professor of Geology, PSU

*April 24, 2002 “From Mantle to Atmosphere: Magma
Degassing and Explosive Volcanic Eruptions”*

Paul Wallace, Assistant Professor, Dept. of
Geological Sciences, University of Oregon

May 8, 2002

**“AMS Dating of C-14: from Kennewick Man
To the Shroud of Turin to Meteorites”**

A.J. Timothy Jull, Professor, Dept. of
Geosciences, University of Arizona

May 22, 2002

**“Assessing Platonic Views of the Soil
Landscapes in the Mediterranean”**

Jay Noller, Assistant Professor, Dept. of
Crop and Soil Science, Oregon State Univ.

May 29, 2002 Thesis Proposals

June 5, 2002

“Using GIS in Hydrology”

Heejun Chang, Assistant Professor,
Dept. of Geography, Portland State Univ.

(For information contact: Scott Burns, 725-3389 or burnss@pdx.edu

AEG "Oregon Section" - OFFICERS

Area codes are 503 unless noted:

Position	Name	Daytime	Home	FAX
Chair	<i>Andrew Harvey</i> e-mail: aharvey@kleinfelder.com	644-9447	617-9486	643-1905
Chair Elect	<i>Ruth Wilmoth</i> e-mail cgivanc@aol.com	(360) 944-7397	(360) 944-6985	
Secretary	Warren Krager wkrager@kleinfelder.com	644-9447	684-4902	643-1905
Treasurer	Rowland French e-mail rowland@nga.com	(541) 757-7231	(541) 757-7331	
Past Chair	<i>Charlie Hammond</i> e-mail: chammond@cornforthconsultants.com	452-1100	274-1437	452-1528
Program Chairs	Jason Hinkle Jhinkle@odf.state.or.us	(503)9457468	(503) 6146-2815	
	Tim Richter Tim_richter@urscorp.com	948-7213		222-4292
Membership	<i>Tim Blackwood</i> e-mail: tblackwood@carlsonstesting.com	684-3460	631-7996	670-9147
Field Trips	Tom Kuper Dkuper@cybcon.com		638-9722	638-9723
Section History	George Freitag Gfreitag@gri.com		641-3478	644-8034

MEMBERSHIP

For application forms for Membership in AEG (Member, Associate, Affiliate, or Student), call Tim Blackwood the membership chair at (503) 684-3460 (w). He will also have copies at the monthly meetings. Membership is on a calendar year basis. If you are an AEG member, headquarters will also collect our Oregon Section dues of \$10, which just covers our newsletter costs. If you would like to subscribe to the local newsletter (comes out 9 times a year) without being an AEG member, fill out the form below and mail to Dave Michael. Note: the following form is only for people and organizations that wish to subscribe to the Oregon AEG Newsletter without being members of AEG.

APPLICATION FOR OREGON SECTION, AEG "NEWSLETTER MAILINGLIST ONLY":

NAME _____

AFFILIATION: _____

MAILING ADDRESS: _____

TELEPHONE: _____

Mail form and \$10 to Dave Michael c/o ODF NWOA, 801 Gales Creek Rd. Forest Grove OR 97116

ANNOUNCEMENT OF OUR NEXT MEETING

May 16, 2002

AEG

*Dave Michael, Editor
Oregon Section, AEG
c/o ODF NWOA
801 Gales Creek Rd.
Forest Grove, OR 97116*