



THE
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Register by **6 April 2009** for reduced rates!

Cordilleran

Plan your 2009 GSA Section Meeting attendance!

105th Annual Meeting, Kelowna, British Columbia, Canada
7–9 May 2009





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Welcome

The Cordilleran Section of The Geological Society of America will hold its 2009 annual meeting on the University of British Columbia–Okanagan (UBC-O) campus in Kelowna, south-central British Columbia. The UBC-O Earth and Environmental Sciences Program is pleased to serve as host.

Kelowna's growing reputation as a tourist town is due to the region's lakes, ski hills, and vineyards, but Kelowna is also a geological paradise. Located in the northern end of the North American extensional regions on the interior plateau and situated between major mountain belts, Kelowna and the Okanagan Valley offer many field trip opportunities, including trips to regions exhibiting extension, compressional, and volcanic processes. The accessible geology includes Proterozoic basement complexes, Eocene and Miocene volcanic-plutonic complexes, and Quaternary glacial and deglacial landforms and sediments. Kelowna is also within a few hours' drive of the Burgess Shales area.

Our venue, the rapidly expanding UBC-O campus, includes an Arts building with six super-classrooms with first-rate audiovisual resources, and the gym will provide excellent space for posters and exhibits. Cafeteria facilities are in the new University Center and the Student Services Building. The meeting is timed to coincide with the end of the academic year, so ample parking will be available on campus.

Kelowna is easily accessible, with an international airport serviced by several airlines just minutes from campus. Early May weather in southern British Columbia is generally pleasant, with sunny skies, highs averaging 18 °C (mid-60s F), and lows around 8 °C (around mid-40s F).

The Cordilleran Section is one of the most active sections in GSA, and its past meetings have been well attended and highly successful. Please join us in May 2009 for a great meeting.

CONTACT INFORMATION

Find up-to-the-minute information at www.geosociety.org/meetings/. If you have questions or have special requirements, contact the general meeting chair, Rob Young, +1-250-807-9523, robert.young@ubc.ca.



Cover and above: Cedar Creek Beach, Okanagan Valley, British Columbia. Photo by Robert Young.

REGISTRATION

Early Registration Deadline: 6 April 2009

Cancellation Deadline: 13 April 2009

Please register online via link at www.geosociety.org/meetings/. Early registration qualifies for lower rates, but onsite registration will be available during the meeting.

REGISTRATION FEES (ALL FEES ARE IN U.S. DOLLARS)

	Early		Standard	
	Full Meeting	One-Day	Full Meeting	One-Day
Professional Member	\$180	\$120	\$210	\$130
Professional Nonmember	\$200	\$140	\$230	\$150
Student Member	\$75	\$60	\$90	\$70
Student Nonmember	\$100	\$75	\$130	\$90
K–12 Teacher or Student	\$50	\$30	\$55	\$35
Guest or Spouse	\$60	n/a	\$70	n/a
Field Trip or Workshop Only	n/a	\$40	n/a	\$50



Cover inset and above: Blossoms, Photo courtesy of Tourism Kelowna. Photo by Don Weixl TOTA.

Cancellations, Changes, and Refunds

Requests for additions, changes, and cancellations must be received at GSA Headquarters by **13 April 2009**. No refunds will be made on cancellation notices received after this date.

Refunds will be mailed from GSA after the meeting; refunds for fees paid by credit card will be credited to the card identified on the registration form. GSA cannot provide refunds for on-site registration, *Abstracts with Programs*, or event ticket sales.

PASSPORTS

Passports *are required* to fly into Canada. Obtaining passports may be a lengthy process; therefore, it's important to begin the passport application process immediately.

ACCOMMODATIONS

GSA and UBC-O are committed to providing access to all individuals interested in attending. Please indicate any special requirements when you register. Reference the GSA Cordilleran Section Meeting when making reservations at any of the following:

Campus: UBC-O has made a block of campus townhouse apartments available for those wishing to stay on-site. Cost: CA\$50 plus tax. Contact UBC-O Conferences and Accommodation, 3180 University Way, Kelowna, BC, V1V 1V8; +1-877-589-6073, +1-250-807-8055, fax: +1-250-807-9157; www.okanagan.ubconferences.com. Reservation deadline: 2 April.

The Coast Capri Hotel: 1171 Harvey Ave., Kelowna, BC, V1Y 6E8; +1-250-860-6060, fax: +1-250-860-9664; www.coasthotels.com. Cost: CA\$135–CA\$175 plus tax depending on room type. Reservation deadline: 6 April.

Sandman Hotel Kelowna: 2130 Harvey Ave., Kelowna, BC, V1Y 6G8; +1-888-526-1988, fax: +1-250-860-7377; www.sandmanhotels.com. Cost: CA\$109 single/CA\$119 double, plus tax. Use conference code 241930. Reservation deadline: 15 April.

Kelowna Inn: 1070 Harvey Ave., Kelowna, BC, V1Y 8S4; +1-800-667-6133, +1-250-762-2533, fax: +1-250-868-3874; www.kelownamotorinn.com. Cost: CA\$79 single/CA\$89 double, plus tax. Reservation deadline: 15 April.

TECHNICAL PROGRAM

The technical program will consist of general discipline sessions as well as more-focused symposia and theme sessions. Inquiries about the technical program can be directed to Rob Young, robert.young@ubc.ca.

Theme Sessions

1. **Paleozoic Paleogeography of Cordilleran Terranes.** JoAnne Nelson, British Columbia Geological Survey, joanne.nelson@gov.bc.ca; Maurice Colpron, Yukon Geological Survey, mcolpron@northwestel.net.
8. **Terror, Wine, and Geology.** John Greenough, University of British Columbia–Okanagan, john.greenough@ubc.ca.
9. **Geoscience Framework for Metallogeny in the Southern Cordillera.** R.G. (Bob) Anderson, Geological Survey of Canada, boanders@nrcan.gc.ca.
10. **Pulling Apart the Cordilleran Orogen: Tectonic and Magmatic Processes Revealed within Extensional Terranes.** Dan Gibson, Simon Fraser University (SFU), hdgibson@sfu.ca; Derek Thorkelson, SFU; Sarah Brown, SFU.
11. **Rivers, Humans, and Fish: River Morphology and Ecohydraulics.** Leif Burge, Okanagan College, lburge@okanagan.bc.ca.

Speaker Information

Oral presentations will be 20 minutes in length (15 min. for presentation and 5 min. for questions and discussion). Oral presentations will use a single digital projector with standard presentation software. One overhead projector will be provided in each room. Use of 35 mm slides will be permitted only under special circumstances and must be requested 30 days in advance by contacting the technical program chair, Rob Young, at robert.young@ubc.ca. Dimensions for posters will be posted at www.geosociety.org/sectdiv/cord/09mtg/index.htm.

An individual may present only one volunteered paper, but may be a co-author on multiple abstracts. Those individuals invited to present a paper in a symposium may present an additional volunteered paper in a general session or theme session.



Kelowna, British Columbia, Canada. Photo courtesy Tourism Kelowna–SATW.



Back cover and above: Squally Point, Okanagan Lake, British Columbia, Canada. Photo courtesy Robert Young.

FIELD TRIPS

Direct inquiries to the field trip chair, John Greenough, john.greenough@ubc.ca.

Find up-to-the-minute details at www.geosociety.org/meetings/.

1. **Geological Highlights, Terroir, and Wines of the Okanagan Valley.** Mon.–Wed., 4–6 May. Cost: US\$420. Min.: 10; max. 40. Robert Fulton, Geological Survey of Canada (GSC), retired, robert_fulton@telus.net; Patricia Bowen, Pacific Agri-Food Research Centre (PARC); Andrew Okulitch, GSC emeritus; Scott Smith, PARC.
4. **Late Quaternary Landscapes of the Central Okanagan Basin.** Wed., 6 May. Cost: US\$110. Min.: 8; max.: 12. Skye Thomson, Univ. of British Columbia–Okanagan, skye.thomson@gov.bc.ca.
5. **Tour of CF Mineral Research.** Thurs., 7 May. Free—must register to attend. Min.: 5; max. 12. Charles Fipke, CF Minerals Research Ltd.
6. **Water Contributions to the Channeled Scablands from the Cordillera.** Sat.–Thurs., 9–14 May. Cost: US\$626. Min.: 8; max.: 18. John Shaw, Univ. of Alberta, john.shaw@ualberta.ca; Darren Sjogren, Univ. of Calgary, sjogren@ucalgary.ca; Rob Young, Univ. of British Columbia, robert.young@ubc.ca.
7. **Effects of Channelization on Rivers.** Sun., 10 May. Cost: \$US85. Min.: 12; max.: 18. Leif Burge, Okanagan College, lburge@okanagan.bc.ca; Norman Corbett, Okanagan College, ncorbett@okanagan.bc.ca.
8. **Geoarchaeology in the Southern Interior B.C. Plateau Culture Area.** Sun.–Tues., 10–12 May. Cost: US\$460. Min.: 4; max.: 15. James Baker, Okanagan Univ. College (retired), ajwbaker@shaw.ca; Dan Bruce, Univ. of British Columbia–Okanagan (UBC-O); John Greenough, UBC-O, john.greenough@ubc.ca.
9. **Mount Stephen: Low Level Equivalents to the Burgess Shales.** Sat.–Sun., 9–10 May. Cost: US\$223. Min.: 5; max.: 12. Paul Johnston, Mt. Royal College, pajohnston@mtroyal.ca.
10. **The Okanagan Valley Fault System, Southern Okanagan Valley (Oliver to Penticton).** Sun.–Mon., 10–11 May. Cost: US\$300. Min.: 10; max.: 30. Dan Gibson, Simon Fraser Univ. (SFU), hdgibson@sfu.ca; Derek Thorkelson, SFU; Sarah Brown, SFU.

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WORKSHOPS

1. **Ground Penetrating Radar.** Wed., 6 May, 8 a.m.–5 p.m. Cost: US\$223. Min.: 15; max.: 30. Greg Johnson, Sensors and Software, Mississauga, Ontario, gbj@senssoft.ca.
2. **Helping K–12 Teachers Explore GSA Geoscience Resources.** *Cosponsored by GSA Education & Outreach and the GSA Education Committee.* Wed., 6 May, 8–11 a.m. Cost: Free—must register to attend. Refreshments included. Min.: 5; max.: 20. Chris McLelland, GSA, cmcllland@geosociety.org.

Attendees will learn how to run a successful workshop for teachers using the GSA Explore Geoscience CD-ROMs, supplied by GSA. Help build the confidence of teachers with activities, big concepts, and fun 3-D models on topics including plate tectonics, and volcanoes, earthquakes. Once you are trained, GSA will provide you with free copies of resources to hand to teachers at your future workshops.



Spring in the south Okanagan Valley, about an hour south of Kelowna. Photo courtesy Robert Young.

OPPORTUNITIES FOR STUDENTS

Mentoring Programs

Questions? Contact Chris McLelland, cmcllland@geosociety.org.

Roy J. Shlemon Mentor Program in Applied Geoscience. *Sponsored by GSA Foundation.*

Thurs., 7 May, 11:30 a.m.–12:30 p.m. and 12:30–1:30 p.m. This is a chance for students to discuss career opportunities and challenges with professional geoscientists from multiple disciplines. Students will find tickets in their registration packets to attend the Shlemon Program and receive a FREE lunch. Learn more at www.geosociety.org/mentors/shlemon.htm.

The John Mann Mentors in Applied Hydrogeology Program. *Sponsored by GSA Foundation.* Fri., 8 May, 11:30 a.m.–1:00 p.m. This event gives students and recent graduates with an interest in applied hydrogeology or hydrology as a career an opportunity to interact and network with professionals practicing in these fields of interest. Students will receive a ticket in their registration packets to attend this relaxed but focused small-scale event featuring a FREE lunch. Learn more at www.geosociety.org/mentors/mann.htm.

Volunteering

The local committee and section officers of GSA's Cordilleran Section are pleased to offer student volunteers free registration for the meeting in return for ~6 hours of work. Contact Rob Young, robert.young@ubc.ca, for more information.

Awards

Awards will be given for best student oral (undergraduate or graduate) and poster (undergraduate only) presentations. To be eligible, students must be lead authors and presenters, and they should clearly identify their abstracts as student work.

Travel Grants

Travel grants will be available for a limited number of students who are presenting papers (oral or poster) at the meeting. Students must be currently enrolled and must be members of the relevant section to apply for support. Go to <http://www.geosociety.org/sectdiv/cord/index.htm>, and click on the “Travel Grants” button for more information and to apply. If you have questions, contact Cordilleran Section secretary Joan Fryxell at +1-909-537-5311 or jfryxell@csusb.edu.

Student Field Trip Grants

Students may also apply for 50% grants on field trip fees. Go to <http://www.geosociety.org/sectdiv/cord/index.htm>, and click on the “Field Trip Grants” button to apply.

MEETINGS AND SPECIAL EVENTS

Icebreaker Reception: Wed., 6 May, 5–7 p.m.

Official lab opening for Fipke ICPMS Lab: Friday, 8 May, 5–7 p.m. (tentative)

Annual Business Meeting, Cordilleran Section, GSA: TBA.

SPOUSE AND GUEST ACTIVITIES

Kelowna is known for its natural setting as a holiday destination, but it is quickly becoming known worldwide as a major tourist attraction because of its close proximity to superior venues for outdoor activities and for its high-quality wines and restaurants. It is surrounded by freshwater lakes that provide recreational opportunities in spring and summer, and boat rentals and/or charters are available. The Spring Wine Festival will coincide with the conference. Wine tasting tours can be undertaken independently or through any of several local charter services, which will also provide a vehicle and informed interpretation.

WINE TOURS

Take advantage of the meeting's location and go on a wine tour!

Kelowna's wine tour companies are happy to take you around the valley to tour the region's many wineries.

Distinctly Kelowna Tours: +1-250-979-1211, e-mail: info@wildflowersandwine.com;
Web site: www.wildflowersandwine.com.

Okanagan Valley Wine Tours: +1-888-764-9869, e-mail: info@winetoursokanagan.com;
Web site: www.winetoursokanagan.com.

Club Wine Tours: +1-250-762-9951; e-mail: info@clubwinetours.com;
Web site: www.clubwinetours.com.

EXHIBITS

Exhibit booths will be available in the exhibit hall for both commercial and non-profit organizations. For more information contact Rob Young, robert.young@ubc.ca.

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From Volcanoes to Vineyards:
Living with Dynamic Landscapes

2009 PORTLAND, OREGON

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An Invitation to GSA's 2009 Annual Meeting & Exposition

18-21 October * Portland, Oregon, USA
www.geosociety.org/meetings

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Wonderglobe: Background Earth image produced by Reto Stöckli; used with permission of NASA. Inside globe images: Mount Hood, Portland, Oregon; image courtesy Travel Portland. Erupting volcano photo by Ulrich. Photos of Delicate Arch, Arches National Park, Utah; Echinus Geyser, Yellowstone National Park; flash flood, Death Valley; and Great Sand Dunes, Colorado, by John Karachewski. Photo of USGS scientist conducting electronic distance measurement, South Sister Volcano, Oregon, by Lyn Topinka; used with permission of USGS. Oregon Convention Center rain garden; photo used with permission from the Oregon Convention Center.



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