



STRUCTURAL GEOLOGY AND TECTONICS DIVISION Newsletter

Volume 22, Number 2

September 2003



Chair's Message

The technical sessions are finally arranged for the upcoming GSA meeting in Seattle. It should be a great meeting with plenty of interesting sessions on deformational processes, tectonics and metamorphism, structure and stratigraphy, continental strike-slip fault systems, the Columbia River Flood basalts, the Circum-Pacific rim, the Cascades, collisional tectonics, extensional tectonics, neotectonics, and the contributions of M. King Hubbert to our science. Also, several interesting field trips and short courses are available. Our division is sponsoring the short course, "DEMS: The Topographic Dimension for Visualizing Geology, Geomorphology, and Active Tectonics." This year, in addition to the popular SG&T Division meeting on Tuesday night, we will have a SG&T Division booth. Make sure you come to the Division meeting and stop by the booth to meet the board members and discuss your concerns and ideas for our Division. Our membership is quite diverse, and the board needs your input to represent all of you well. Also, I want to remind all of you that it's time to select your board members for 2003-2004. Please vote! See the candidate biographies and ballot in this newsletter (p. 9-11) or vote online at <http://rock.geosociety.org/balloting/sgt.asp> by September 15th.

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I want to thank all of the volunteers who worked so hard for the SG&T Division during the past year. **Kevin Smart** has established a great website, and **Barbara John** and **Barbara Sheffels** have continued to create an informative newsletter. A special thanks goes out to our committee members who completed their tasks for 2003. **Jan Tullis** chaired the Career Contribution Committee with the assistance of **Donald Fisher** and **Shankar Mitra**; and **Rick Law** and **Paul Umhoefer** co-chaired the Best Paper Award Committee with the assistance of **Harold Tobin**, **Frank Pazzaglia**, **Kip Hodges**, and **Bruno Vendeville**. I'd also like to thank our Short Course Committee members, in advance, whose job has just begun: **Basil Tikoff**, chair, **Claudia Lewis**, **Randy Marrett**, and **Dave Lageson**.

See you in Seattle,

Martha Withjack



!!! IMPORTANT REMINDERS !!!

Effective Oct. 1 NSF will return without review proposals that do not separately address both merit review criteria within the Project Summary.
<<http://www.geo.nsf.gov/cgi-bin/geo/announce.pl?div=ear>>

Remember that it is EAR policy that investigators must wait one year before resubmitting a proposal.

The new NSF Grant Proposal Guide 03-041 is now available. Please be sure to consult it when writing proposals.

Goodbye to Art, Hello to Steve : **Art Goldstein** completed his term as program director (rotator) in the Tectonics program at the end of June. He did a fabulous job here keeping the program going through a difficult transition period. We will miss his great humor and expert Tour de France commentary! We are pleased to announce that **Steve Harlan**, from George Mason University, just came on board to replace Art. For those of you who don't know Steve, he did his M.S. work at Montana State with **Dave Lageson** and his Ph.D. at the University of New Mexico with **John Geissman**. Before joining the faculty at George Mason, he spent almost a decade with the U.S. Geological Survey. His research interests include paleomagnetism applied to structural and tectonic problems, geochronology, tectonic evolution of western U.S., evolution of thrust belts, and polar wander paths and supercontinent reconstructions.

The Earth Sciences Division is planning a **Town Meeting at the Annual GSA Meeting**. The meeting is tentatively scheduled for Monday, November 3, following the technical sessions. Watch for details in the schedule of events for the GSA meeting.

Upcoming Workshops of Interest: In concert with other EAR programs, the Tectonics program is supporting some conferences and workshops that may be of interest.

Development of a Cyberinfrastructure for Research and Education in Structural Geology Workshop; McCall, Idaho, early October, 2003. Contact J. Oldow (oldow@uidaho.edu)

ISES (Integrated Solid Earth Sciences) Forum I: CyberInfrastructure and Geochronology; Seattle, Washington, 1 November (before the Annual GSA meeting). Contact M. Brown (mbrown@geol.umd.edu), Ben van der Pluijm (vdpluijm@umich.edu), Tracy Rushmer (trushmer@zoo.uvm.edu), Basil Tikoff (basil@geology.wisc.edu), or Cathy Manduca (cmanduca@carleton.edu)
More information in the Announcements section below.

4-D Framework of the Continental Crust – Integrating Crustal Processes through Time; Oak Ridge, Tennessee, 27 June – 1 July, 2004. Contact R. Hatcher (bobmap@utk.edu) More information in the Upcoming Meetings section below.

Updated EAR Program Announcement Coming Soon: The program announcement for the Earth Sciences Division has recently been revised. The document still has various approval stages to go through so is not yet available. It will replace the old announcement, NSF 96-50.

Doing NSF-supported Research Abroad or Convening an International Workshop? Doing research overseas has become more difficult in the post 9/11 world. We have heard that increased airline security makes it much harder to check some equipment, such as paleomag drills, on airlines. Shipping some technical equipment (e.g., GPS gear) abroad can be tricky as well. You may find it useful to consult with NSF-funded facilities that have extensive experience in shipping scientific field equipment (e.g., IRIS, UNAVCO, etc.) to get some tips on how to cut through some of these difficulties.

The National Academies alerted us to new requirements implemented by the Dept. of State concerning visits by foreign scientists. The new visa requirements include the requirement that all visa applicants be interviewed by staff of a U.S. Consulate. Additional conditions are also expected to be applied soon (e.g., foreign visitors will be required to be photographed and fingerprinted in order to either obtain their visas or, after having received their visas, in order to enter the

U.S). The National Academies, through its International Visitors Office, has launched a new Web site with visa information specifically tailored for visiting scientists and scholars, and for those organizing international meetings in the U.S. - <http://www.nationalacademies.org/visas>. We strongly encourage you to consult this web site should you anticipate hosting a foreign visiting scientist or if you plan to convene an international meeting.

Helpful Hints Continued: In the last newsletter, we included some helpful hints for improving your NSF proposals. Here are some more tips:

Broader impacts: As noted in the last newsletter, a separate statement indicating the broader impacts of proposed research is required in the Project Summary. We still receive proposals without this statement. We are required to return these without review. Please consult the last newsletter for more information. Be certain to read the most current NSF Grant Proposal Guide.

Font and Margins: We receive many proposals that don't follow the font and margins requirements. We urge you to check the most current NSF Grant Proposal Guide for font and margin requirements as you prepare your next proposal.

Foreign Travel and Collaboration: We discussed this at length in the last newsletter and we encourage you to review that information if you are planning foreign travel and collaboration in your next proposal. We also want to remind you that the Grant Proposal Guide specifically states "persons traveling under NSF grants must travel by US-flag carriers, if available." Investigators frequently forget this and buy tickets on a non-US carrier only to find that they can't be reimbursed.

2001 Structural Geology and Tectonics Awards GSA Annual Meeting, Boston



Don Wise, winner of the Career Contribution Award, with Christian Teyssier, Division Chair 2000-2001 (left) and Art Goldstein (right), who wrote the citation with Art Snoke.



Winners of the Best Paper Award for their paper: Thermomechanical evolution of a ductile duplex (Tectonics, 1997): Jim Dunlap, Greg Hirth, and Christian Teyssier.



GSA Annual Meeting 2003—Seattle, WA

Geoscience Horizons

Sunday, November 2–Wednesday, November 5

Abstracts Deadline: July 15

Preregistration Deadline: September 26

Premeeting Field Trips: October 26–November 1

Short Courses and Workshops: November 1

Postmeeting Field Trips: November 5–8

If you would like to beat the crowds at Seattle's registration desk and ensure your place in courses and field trips, please note that our early online registration Web site is up and running for your convenience. The deadline for preregistration is September 26, but we invite you to take advantage of our easy online process as soon as you can for the best selection and service. Visit <http://www.geosociety.org/meetings/2003/reg.htm> for details.

Pardee Keynote Symposium

Modeling Metamorphism: Petrology, Geochemistry, and Tectonics

Mineralogical Society of America, Geochemical Society; GSA Structural Geology and Tectonics Division

Michael Brown, Univ of Maryland, College Park, MD; Barbara L. Dutrow, Louisiana State Univ, Baton Rouge, LA

Metamorphism involves the study of global-scale cycles, for example, from diagenesis to exhumation of metamorphic rocks, and from ocean floor sedimentation to formation of mountain belts and global climate change. This session addresses a broad theme that is fundamental for mineralogy, petrology, geochemistry, tectonics and earth system science.

Topical Sessions

T15 Characterizing Complexity in Geomechanics, Engineering Geology, and Hydrogeology

William C. Haneberg, Haneberg Geoscience, Port Orchard, WA; Edmund Medley, Exponent(r) Failure Analysis Associates, Menlo Park, CA. Geomechanical and hydrogeological characterization of fault and fracture systems, melanges, landslides, tills, and other strongly heterogeneous or anisotropic geomaterials. Quantitative probabilistic or process-based modeling contributions, field studies, and laboratory investigations are encouraged. ORAL

T17 Advances and Applications of 3-D Fracture Analysis to Rock Mechanics and Engineering Geology

Judy Ehlen, USA Engineer Research and Development Center, Alexandria, VA; Paul La Pointe, Golder Associates, Inc., Redmond, WA. In this session we propose to bring together those working on these various aspects of 3-D fracture characterization and synthesis to present their current work as it impacts structural geology, engineering geology, and hydrogeology. ORAL

T47 Design and Development of XML-based, Discipline-Specific, Geological Markup Languages, and Development of Applications (with Object-oriented Languages) and Databases to Process, Store, and Interchange Geological Data over the Web

Hassan A. Babaie, Georgia State University, Atlanta, GA; Rahul Ramachandran, University of Alabama, Huntsville, AL. The session will cover techniques of developing markup languages applying the XML specifications in different fields of geosciences, e.g., TectonicsML, SedML, StratML, SeismML, GeochemML, and for the whole geology (GeoML). ORAL and POSTER

T51 M. King Hubbert at 100: The Enduring Contributions of Twentieth-Century Geology's Renaissance Man

Alan E. Fryar, University of Kentucky, Lexington, KY; T. N. Narasimhan. M. King Hubbert (1903–1989) made fundamental contributions to structural geology, tectonics, hydrogeology, and petroleum geology. He forecast the decline in worldwide petroleum reserves and advanced the development of geology as a quantitative discipline. This session explores Hubbert's legacy as scientist, educator, citizen, and visionary. ORAL

T72 A Century of Hydrogeologic Investigations and Groundwater Modeling in the Great Basin: What Have We Learned?

Wayne R. Belcher, U.S. Geological Survey, Henderson, NV; Donald S. Sweetkind, U.S. Geological Survey, Denver, CO. What have we learned about the hydrogeology of this region and how are these data used to model the groundwater system? We welcome presentations that provide historical perspective and recent advances on understanding the hydrogeologic system of this important region that includes the Nevada Test Site and Yucca Mountain. ORAL

T101 Erosion, Exhumation, and Uplift: Complex Interactions and Feedback Mechanisms Between Tectonics and Geomorphology

Kurt L. Frankel, Univ of California, Los Angeles, CA; Bernard Guest, Univ of California, Los Angeles, CA
This session will investigate complex links and feedback mechanisms associated with fluvial and glacial erosion and orogenic processes from a multidisciplinary approach. The necessary thresholds needed for these interactions will be a primary focus. ORAL and POSTER

T114 Isotopic Determination of Sediment Provenance: Techniques and Applications

Paul Karl Link, Idaho State University, Pocatello, ID; Mark Fanning, Australian National University, Canberra, Australia; J. Brian Mahoney, University of Wisconsin, Eau Claire, WI. Isotopic and geochronologic techniques (detrital zircon U-Pb, Ar-Ar on K-feldspar and mica, Sm-Nd and Hf isotopes) to determine provenance and history of sedimentary basins. Session includes geologic applications to tectonic reconstruction. ORAL and POSTER

T115 New Applications of Provenance Analysis to Landscape Evolution and Sediment Transport Systems

Matthias Bernet, University of Canterbury, Christchurch, New Zealand; Kari Bassett, University of Canterbury, Christchurch, New Zealand. This session will present new applications of sedimentary provenance analysis to exhumation studies, sediment recycling, and sediment transport systems. Emphasis will be on innovative applications of provenance analysis to landscape evolution and on new uses for established techniques, such as SEM-cathodoluminescence analysis of quartz. ORAL and POSTER

T117 Influence of Tsunamis in the Geological Record

Frank R. Etensohn, Univ of Kentucky, Lexington, KY; Kevin G. Stewart, Univ of North Carolina, Chapel Hill, NC
Tsunamis are relatively common products of major geologic processes, yet their deposits have received remarkably little attention, especially in the pre-Quaternary record. Hence, the session is devoted to understanding diagnostic characteristics of tsunami deposits and using these to interpret the older sedimentary record. ORAL

T126 Testing Rodinia Using New Maps Compiled for Each Craton through IGCP 440

Karl E. Karlstrom, Univ of New Mexico, Albuquerque, NM; Svetlana V. Bogdanova, Univ of Lund, Lund, Sweden
The pre-Pangean supercontinent of Rodinia has been the subject of debate since it was proposed over a decade ago. This session will present results from an international correlation project (IGCP 440) designed to compile new data from each craton to test some of the numerous models for the shape, evolution, and even the existence of Rodinia. ORAL

T129 The Jurassic System of North America: Stratigraphy, Tectonics, and Depositional History (Posters)

William C. Parcell, Wichita State University, Wichita, KS. This session will focus on the depositional and tectonic evolution of North America during the Jurassic Period. We encourage contributions that discuss the causal relationships between sedimentologic processes, tectonic events, and the resulting stratigraphic record during this period. POSTER

T130 Advances in Understanding Fault Mechanics: Beyond Mohr-Coulomb

Juliet G. Crider, Western Washington University, Bellingham, WA. In the years since Anderson's "Dynamics of Faulting," many other approaches to faulting have been proposed, but few are as widely applied. This session will review and advance alternative or supplemental theories for understanding how faults work, plus highlight successful field applications of new or alternative approaches. ORAL

T131 Seismogenic Friction and Pseudotachylites

Eric C. Ferre, Southern Illinois University, Carbondale, IL; Joseph L. Allen, Concord College, Athens, WV; Kieran O'Hara, University of Kentucky, Lexington, KY. Fault-related pseudotachylites are the fascinating product of coseismic deformation occurring during large magnitude earthquakes. This session will present a blend of new results from structural geology, seismology, rock magnetism, geochemistry, mineralogy, and geochronology. ORAL and POSTER

T132 Understanding Coupled Metamorphic and Deformational Processes: Advances in Integrated Textural, Chemical, and Microstructural Analysis Gary S. Solar, SUNY College, Buffalo, NY; Aaron Stallard, Univ of Canterbury, Christchurch, New Zealand. Innovative combination of petrologic, geochemical, and structural analysis reveals the dynamics between synchronous metamorphism and deformation. Speakers will address these relations using established and new techniques of investigating textures and chemistry in deformed metamorphic rocks to illustrate our understanding of these processes. ORAL and POSTER

T133 Exhumation Along Major Continental Strike-Slip Fault Systems

Sarah Roeske, University of California, Davis, CA; Alison Till, U.S. Geological Survey, Anchorage, AK; Dwight Bradley, U.S. Geological Survey, Anchorage, AK. Exhumation of metamorphic rocks along transcurrent faults occurs in both extension and contraction environments. This session seeks contributions from researchers examining this process in active or ancient orogens and/or by analogue or numerical modeling. ORAL and POSTER

T134 The Columbia River Flood Basalts: New Insights into the Volcanism, Petrology, and Tectonism of a Large Igneous Province Heather L. Petcovic, Oregon State Univ, Corvallis, OR; Bart S. Martin, Ohio Wesleyan Univ, Delaware, OH; Stephen P. Reidel, Pacific Northwest National Lab and Battelle Memorial Institute, Richland, WA

We seek papers covering a broad range of topics, including: the origin of the Columbia River Flood Basalts, lava emplacement rates and mechanisms, magma petrogenesis and geochemical modification, and tectonic history of the Columbia Plateau. ORAL and POSTER

T139 Granites at Convergent Margins: Physical and Chemical Constraints on Processes and Petrogenesis

Paul B. Tomascak, Univ of Maryland, College Park, MD; Scott Paterson, Univ of Southern California, Los Angeles, CA
We seek papers on investigations of granites and granophile mineral deposits at modern and ancient convergent margins. Of primary interest: studies underscoring the importance of integrated field-structural-geophysical-geochronological-geochemical techniques, and novel laboratory studies. ORAL and POSTER

T140 Modeling Metamorphism: Petrology, Geochemistry, and Tectonics

Michael Brown, Univ of Maryland, College Park, MD; Barbara L. Dutrow, Louisiana State Univ, Baton Rouge, LA
This session encourages contributions from a wide variety of subdisciplines that use modeling to understand the petrology, geochemistry, and tectonics of lithosphere evolution: from nucleation and growth of crystals to orogenesis, from fluid flow to melting, and from quantifying extensive variables to understanding the rheology of metamorphic belts. ORAL and POSTER

T141 Phase Relations, High P-T Terrains, P-T-ometry and Plate Pushing: A Tribute to W.G. Ernst

Sorena S. Sorensen, Washington, D.C.; Mark Cloos, University of Texas, Austin, TX; M. Charles Gilbert, University of Oklahoma, Norman, OK. A Gary Ernst tribute: mineral and rock phase relations, field relations of high P-T, UHP, and arc terrains, subduction zone tectonics and evolution, plate tectonic synthesis of orogenic belts, and earth science writ large. ORAL and POSTER

T142 Structure and Stratigraphy: New Perspectives on Lithotectonic Processes

Mark P. Fischer, Northern Illinois University, De Kalb, IL; David Anastasio, Lehigh Univ, Bethlehem, PA
Variability in structures and structural processes in cover sequences are controlled by sedimentological and stratigraphic variables operating at multiple scales. A number of classic studies have demonstrated a close association between structural style, kinematics, strain partitioning and stratigraphy. This topical session encourages submissions from geoscientists which highlights any role that stratigraphy plays in controlling deformation or constraining deformation histories. Examples include heterogeneous strain partitioning, mesoscopic deformation patterns, fold and fault geometries, and orogenic mechanics. The session aims to showcase laboratory, field, and theoretical research that integrate structural and stratigraphic analyses. Better collaborations between stratigraphers and structural geologists may lead to breakthroughs in the understanding of a wide variety of geologic processes from fault-related folding to strain partitioning and the lithologically heterogeneous development of fractures. This enhanced synergy should foster development of deterministic models of deformation in a wide range of tectonic environments. ORAL and POSTER

T143 Earthquake Geology in Reverse-Faulting Terrains

Alan R. Nelson, U.S. Geological Survey, Denver, CO; Brian L. Sherrod, U.S. Geol Survey, Seattle, WA
Earthquake geology-study of the kinematics, history, and effects of earthquakes and related earth movements-requires diverse and innovative approaches in regions of active reverse faulting and folding. We encourage contributions about approaches and techniques applicable to the recently glaciated, heavily forested U.S. Pacific Northwest. ORAL and POSTER

T144 Tectonics of the Circum-Pacific Rim in Space and Time: Focus on Alaska, Central and South America, and the Western Pacific Suzanne Mahlburg Kay, Cornell University, Ithaca, NY; Mark Cloos, University of Texas, Austin, TX
Comparative and specific studies of the Circum-Pacific rim lead to new insights on the relative importance of tectonic factors controlling subduction processes. Interdisciplinary papers that consider broad aspects of all or parts of the rim are encouraged. ORAL and POSTER

T145 The Washington Cascades: An Integrated Perspective on 100 Million Years of Orogenesis, Magmatism, and Surface Processes Peter W. Reiners, Yale Univ, New Haven, CT; Donna L. Whitney, Univ of Minnesota, Minneapolis, MN
The Cascades orogen in Washington is a regional tectonic, topographic, and climatic transition zone. The session will examine the structural, petrologic, geophysical, and geomorphic evolution of the Cascades, including relationships between petrologic/tectonic events and surficial processes and mechanisms, timing, and rates of uplift and erosion. ORAL and POSTER

T146 Collisional Tectonics of the Northwest Cordillera: Integration of New Data in Basin Development, Magma Petrogenesis, Geophysics, Structural, and Metamorphic Analysis (Posters) Ronald B. Cole, Allegheny College, Meadville, PA; Kenneth D. Ridgway, Purdue Univ, West Lafayette, IN. A forum for new data on terrane accretion processes in southern Alaska and western Canada. Emphasis on structures, basins, and arc systems along terrane suture zones and across terrane assemblages and on plate kinematics related to terrane collision. POSTER

T147 Crustal Character of the Northwestern Cordilleran Continental Margin
R.W. Saltus, U.S. Geological Survey, Denver, CO; T.L. Hudson, Applied Geology, Sequim, WA; D.B. Snyder, Geological Survey of Canada, Ottawa, ON. Presentation of seismic, gravity, and magnetic interpretations (particularly multidisciplinary transects), as well as complimentary studies, that elucidate the full crustal character along the complex continental margin of the northwestern Cordillera. ORAL and POSTER

T148 The Cascade Volcanic Arc System
Patrick Muffler, U.S. Geol Survey, Menlo Park, CA; Richard J. Blakely, U.S. Geol Survey, Menlo Park, CA
This session seeks to integrate geological, geochemical, geophysical, and tectonic studies of the Cascade Range into a better understanding of what constitutes the Cascade volcanic arc as a system. Our theme is "connectivity." Speakers are encouraged to look beyond their pieces of real estate and truly integrate beyond their specialties. ORAL and POSTER

T149 Seismic Hazards and Neotectonics in Southern Nevada (Posters)
Catherine M. Snelson, Univ of Nevada, Las Vegas, NV; Wanda J. Taylor, Univ of Nevada, Las Vegas, NV
Recent studies have provided new insights into the neotectonics in southern Nevada. As a result, interest has increased in the seismic hazard assessment, which is particularly important in light of the population growth in Southern Nevada. This session will bring together new and existing studies to address the seismic hazard issues that face the region. POSTER

T150 New Views of Seismic Hazard in Cascadia I: Seismology and Seismotectonics
Thomas M. Brocher, U.S. Geological Survey, Menlo Park, CA; Kate C. Miller, University of Texas, El Paso, TX; Thomas L. Pratt, U.S. Geological Survey, Seattle, WA. This session showcases latest advances in our understanding of the structural framework, seismotectonics, and site response in Cascadia. Papers will include new results from site response studies in the Seattle basin, crustal imaging of the forearc, monitoring silent-slip events along the megathrust, and studies of the 2001 Nisqually earthquake. ORAL and POSTER

T151 New Views of Seismic Hazard in Cascadia II: Neotectonics of the Cascadia Forearc
Samuel Y. Johnson, U.S. Geol Survey, Lakewood, CO; Ray E. Wells, U.S. Geol Survey, Menlo Park, CA
Multidisciplinary studies of convergent margin deformation and its relation to contemporary strain in the Cascadia forearc, northern California to southern British Columbia. ORAL

Premeeting Field Trips

Tectonic Geomorphology and the Record of Quaternary Plate Boundary Deformation in the Olympic Mountains

Wed.-Sat., 29Oct.-1 Nov. Frank J. Pazzaglia, Dept. of Earth & Env Sci, Lehigh Univ, 31 Williams, Bethlehem, PA 18015, (610) 758-3667, fax 610-758-3677; Glenn Thackray; Mark T. Brandon; Eric McDonald; John Gosse; Karl Wegmann.
Max.: 24. Cost: \$525.

Columbia River Basalt and Yakima Fold Belt Field Trip

Thurs.-Sat., 30 Oct.-1 Nov. Stephen Reidel, Pacific Northwest National Laboratory, K6-81, P.O. Box 999, Richland, WA 99352, (509) 376-9932, fax 509-376-5368; Bart Martin; Heather Petcovic. Max.: 22. Cost: \$290.

Cretaceous to Paleogene Cascades Arc: Structure, Metamorphism, and Time Scales of Magmatism, Burial, and

Exhumation of a Crustal Section Thurs.-Sat., 30 Oct.-1 Nov. *Cosponsored by GSA Structural Geology and Tectonics Division.*

Robert Miller, Dept. of Geology, San Jose State University, San Jose, CA 95192-0102, (408) 924-5025, fax 408-924-5053;

Jennifer Matzel; Scott Paterson; Harold Stowell. Max.: 35. Cost: \$305.

Regional Tertiary Sequence Stratigraphy and Regional Structure on the Eastern Flank of the Central Cascade Range,

Washington Fri.-Sat., 31 Oct.-1 Nov. *Cosponsored by Northwest Geological Society.* Eric S. Cheney, Dept. of Earth and Space Sciences, University of Washington, Box 351310, Seattle, WA 98195-1310, (206) 543-1190, fax 206-543-3836.

Max.: 21. Cost: \$245.

Postmeeting Field Trips

Evolution of a Polygenetic Ophiolite: The Jurassic Ingalls Ophiolite, Washington Cascades

Wed.-Fri., 5-7 Nov. Gregory Harper, Dept. of Earth and Atmospheric Sciences, SUNY, Albany, NY 12222, (518) 442-4476, fax 518-442-5825; Robert Miller; Jonathan Miller. Max: 30. Cost: \$250.

Puget Sound Paleoseismology

Thurs.-Fri., Nov. 6-7. Brian Sherrod, U.S. Geological Survey, Dept. of Earth and Space Sciences, Box 351310, University of Washington, Seattle, WA 98195, (206) 553-0153, fax 206-553-8350; Alan Nelson; Harvey Kelsey; Carrie Garrision-Laney.

Max: 45. Cost: \$170.

GSA Short Courses

Check the June issue of GSA Today

DEMs: The Topographic Dimension for Visualizing Geology, Geomorphology, and Active Tectonics

Sat., Nov. 1. *Cosponsored by GSA Geoscience Education Division and GSA Structural Geology and Tectonics Division.*

Peter L. Guth, U.S. Naval Academy, Annapolis, MD; Ralph Haugerud, U.S. Geological Survey, Seattle; Stephen J. Reynolds, Arizona State University; Paul Morin, University of Minnesota. Fee: \$650. CEUs: 0.8.

New Satellite Data and Processing Techniques for the Field Geologist

Sat., Nov. 1, *Cosponsored by GSA Quaternary and Geomorphology Division.*

Tom G. Farr, Jet Propulsion Laboratory, Pasadena, CA; John C. Dohrenwend, Southwest Satellite Imaging, Teasdale, UT, Fee: \$525. CEUs: 0.8.

Other courses

Sequence Stratigraphy for Graduate Students

Fri.-Sat., Oct. 31-Nov. 1. *Cosponsored by ExxonMobil and British Petroleum (BP).*

Free short course for graduate students. Instructors: Kirt Campion (ExxonMobil) and Art Donovan (BP). Information: Kirt Campion.



Free \$\$\$\$

Student members of the SG&T Division are eligible to apply for grants to supplement the cost of field trips and short courses associated with the upcoming GSA annual Meeting in Seattle. Applications should be sent to **Martha Withjack** (drmeow3@yahoo.com). Indicate what trip or short course you would like to attend, and include a brief note indicating why it is important to your research/professional development.

VOTE FOR SG&T OFFICERS ONLINE

If you haven't already voted for SG&T Division officers, please vote online at <http://rock.geosociety.org/balloting/sgt.asp> or print a paper copy of the ballot on pages 11-12 of this Newsletter and return it to GSA. Brief biographies for each of the candidates are presented below.

Candidate for Chair:

Elizabeth Schermer (schermer@cc.wvu.edu) is currently Associate Professor in the Geology Department at Western Washington University. She obtained a B.S. at Stanford (1982) and a Ph.D. at MIT (1989) and worked at the U.S. Geological Survey for two years. She did post-doc research at UC Santa Barbara for two years before joining the faculty at WWU. She teaches classes in introductory geology, structural geology, tectonics of mountain building, and field camp, and a field version of introductory structural geology. She served on the editorial board of *Geology* from 1996-1998, as the SG&T Division Second Vice-Chair (2001-2002), and as the current SG&T Division First Vice-Chair (2002-2003). Her research interests include the application of structural geology, metamorphic petrology, and geochronology to the tectonics of plate margins and the relations between magmatism and tectonics. She has worked on Alpine tectonics and extension in Greece, strike slip faulting in Chile and the Mojave desert, Mesozoic magmatism and deformation in the Mojave desert, and Cretaceous and younger deformation in the Pacific Northwest. Recent interests include paleoseismology and active faulting in the Mojave desert and New Zealand, and the quantification of different styles of deformation at oblique subduction margins.

Candidate for 1st Vice-Chair:

David R. Lageson (lageson@montana.edu) is Professor of Geology in the Department of Earth Sciences at Montana State University. He completed a B.A. in geology in 1973 at Western State College of Colorado and was subsequently employed in the petroleum industry in Wyoming as a well-site geologist and exploration geologist. Dave attended graduate school at the University of Wyoming, completing his M.S. in 1977 and his Ph.D. in structural geology in 1980. During graduate school, he was also employed full-time as a staff geologist with the Wyoming State Geological Survey. Dave has been at Montana State University since 1980, including five years as department head in the early 1990s. He teaches a variety of undergraduate and graduate courses in structural geology and tectonics. Dave's research is largely field-based and focuses on the structural analysis of superimposed tectonic regimes through time, as well as the analysis of active, earthquake-generating fault systems in the northern Intermountain Seismic Belt. He has also investigated fault-controlled pluton emplacement in the Sevier fold-and-thrust belt of western Montana. Current research projects include: 1) regional tectonic controls on the track of the Yellowstone hotspot – i.e., non-deep-mantle “hotspot” hypothesis; 2) structural evolution of the east-west trending Centennial Mountains seismotectonic zone, southwest Montana; and 3) compilation of a regional tectonic map of the Northern Rockies and Pacific Northwest. In addition, Dave is currently director of the new USGS-MSU Earthquake Science Laboratory. Dave was co-convener of a GSA Penrose Conference on Laramide structure/tectonics in the early 1980s, serves as the current (2002-2003) SG&T Division Second Vice-Chair, and has been actively involved with many service activities to the profession and public throughout his career. Dave was elected Fellow of the Geological Society of America in 1994 and he is currently the Science Editor of the GSA Field Guide Series.

(continued on p. 10)

(continued from p. 9)

Candidates for 2nd Vice-Chair:

Nancye H. Dawers (ndawers@tulane.edu) earned her BS from University of Kentucky (1984), her MS from University of Illinois at Urbana-Champaign (1987) and her PhD from Columbia University's Lamont-Doherty Earth Observatory (1997). From 1996-1999, she worked as a Research Associate at the University of Edinburgh, and since 2000 she has been on the faculty of Tulane University in the Department of Earth and Environmental Sciences. She has been a GSA member since 1989. Her research interests include fault growth and interaction, 3d seismic interpretation and neotectonics.

John W. Geissman (jgeiss@unm.edu) is Professor in the Department of Earth & Planetary Sciences at the University of New Mexico. He received his Ph. D. from the University of Michigan in 1980. He is a long-time GSA volunteer, serving as chair of the Geophysics Division (1995), JTPC rep (1994-1995), associate editor of the GSA Bulletin (1989-1994), co-editor of the GSA Bulletin (1995-2000), editorial board member for Geology (1993-1998), co-chair for two combined Rocky Mountain/South-Central GSA section meetings, Technical Program Chair for the Denver 2002 Annual Meeting, and member of the Annual Program Committee (2001-2003). John is a GSA Fellow and received the GSA Distinguished Service Award in 2002. His current research interests include the tectonics and paleomagnetism of North America, rock magnetism and relations to igneous and sedimentary oxide mineralogy, lithosphere structure, geomagnetic field behavior, general geodynamics, exploration geophysics, and extensional tectonics.

David B. Rowley (rowley@geosci.uchicago.edu) is Professor and Chair in the Department of the Geophysical Sciences at The University of Chicago. He received his PhD from the State University of New York at Albany in 1983 working with John Dewey, Bill Kidd, Kevin Burke and Win Means on regional geology and tectonics of the Northern Appalachians. He has been at Chicago since completing his PhD. He is an eclectic geologist interested in a broad range of geological problems, many of which have been addressed by field-based studies. His current structure/tectonics directed research focuses on paleoaltimetry and paleohypsometry by integrating atmospheric thermodynamics and Raleigh distillation of oxygen and hydrogen isotopes and field-based sampling, particularly of the Himalayas and Tibet; stratigraphic and biostratigraphic constraints on the timing of the India-Asia collision; structural and thermochronologic constraints on mechanism and timing of exhumation of ultrahigh pressure rocks in the Dabie Shan; global rate of lithosphere production and destruction since the Middle Jurassic; and global plate and paleogeographic reconstructions. David served as an Associate Editor of Geology (1993-98), is Department Chair (1999-present), is an associate member of the Canadian Institute for Advanced Research, Earth System Evolution program (1999-present), and is a member of the Department of Earth and Planetary Sciences Visiting Committee of Harvard University. He has been a strong advocate for the crucial importance of sustaining field-based training and research in Earth Sciences, and seeks to promote this further in the future.

Candidate for Secretary-Treasurer:

Peter J. Vrolijk (peter.vrolijk@exxonmobil.com) specializes in structural geology, petroleum geology, and hydrogeology. He earned his BS and MS in Geology from MIT, and his PhD in Geology from the University of California at Santa Cruz. He was awarded a NATO Post-Doc at Cambridge University (1987-1988) and a Post-Doc at the University of Michigan (1988-1989); he currently is a Research Geologist at ExxonMobil Upstream Research Co (1989-present). Peter has been a GSA member since 1984, and is also a member of AGU. He is the current SG&T Division Secty/Treasurer (2000-present), serves on the editorial board for Geology (2002-present), and has served as GSA Bulletin Associate Editor (1995-2001). He also served as External Editor for ODP Leg 131 91-92. Peter's research interests include the impact of faults and fault gouge on multi-phase subsurface fluid flow.

BALLOT
Election of Officers
for the Structural Geology & Tectonics Division

There is an online ballot available at: <http://rock.geosociety.org/balloting/sgt.asp>.

To Fellows and Members of the Division:

The slate of officers of the Division presented by the Nominating Committee is submitted herewith. Please vote by checking the appropriate box or by typing in the name of your nominee in the space provided.

Biographical data for the nominees can be found on the previous page. This ballot or the electronic version must be received no later than September 15, 2003. The election results will be announced at the business meeting of the Division in Seattle, WA, in November.

CHAIR (One candidate)

Elizabeth Schermer ☐

Write in: _____

FIRST VICE-CHAIR (One candidate)

David Lageson ☐

Write in: _____

SECOND VICE-CHAIR
(Vote for one)

Nancye Dawers ☐

John Geissman ☐

David Rowley ☐

Write in: _____

SECRETARY (One candidate)

Peter Vrolijk

Write in: _____

Send to: Ballot Structural Geology and Tectonics Division
Geological Society of America
P.O. Box 9140
Boulder, CO 80301-9140

Your GSA member number (found near the top of the GSA Today mailing label): _____

fold here

For a legal vote, this ballot must be signed

Signature: _____

Print name: _____

Address: _____

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Ballot Structural Geology and Tectonics Division
Geological Society of America
P.O. Box 9140
Boulder, CO 80301-9140

fold here

**Geological Society of America
Structural Geology and Tectonics Division**

CAREER CONTRIBUTION AWARD NOMINATION

This award will be given for the sixteenth time in 2003. It is given to an individual who throughout his/her career has made numerous distinguished contributions that have clearly advanced the science of structural geology or tectonics. The deadline for nominations is February 15, 2004. Nominees need not be citizens or residents of the United States, and membership in the Geological Society of America is not required. The Career Contribution Award cannot be given posthumously, unless the decision to give it was made before the death of the awardee. Past recipients are:

1988: John H. Handin	1994: Richard P. Nickelsen	1999: Hans Laubscher
1989: John Rodgers	1995: B. Clark Burchfiel	2000: S. Warren Carey
1990: John G. Ramsay	1996: Winthrop D. Means	2001: Don Wise
1991: Clint D. A. Dahlstrom	1997: Hans Ramberg	2002: Robert Wallace
1992: John C. Crowell	1998: Albert W. Bally	2003: Gregory A. Davis
1993: Benjamin M. Page		

Name of nominee, present institutional affiliation and address:

Summary statement of nominee's major career contributions to the science of structural geology or tectonics (attach additional page if necessary):

Selected key published works of the nominee (attach additional page if necessary):

Name and address of nominator:

Mail to: Donald Fisher
339 Deike Bldg.
Dept. of Geosciences
Penn State University
University Park, PA 16802
email: fisher@geosc.psu.edu

fold here

Address: _____

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Don Fisher
339 Deike Bldg.
Dept. of Geosciences
Penn State University
University Park, PA 16802

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Announcements

Integrated Solid Earth Sciences--2002 Workshop Report

Approximately 90 scientists from various geological disciplines, including structure, petrology, sedimentology, stratigraphy, geophysics and geochemistry, met on October 26, 2002, to discuss priorities in solid Earth sciences. This one-day workshop met before the Denver Geological Society of America Annual Meeting and was supported by a grant from the National Science Foundation. An additional Town Hall discussion was held at the 2002 AGU Fall Meeting. **Details of workshop outcomes and the ISES initiative can be found in the first report at: <http://serc.carleton.edu/earthworkshop02/index.html>.**

The workshop was motivated by two complementary needs. First, a realization by the solid Earth sciences community that for the 21st Century an examination of priorities is necessary. This sentiment is in line with a recent NSF Advisory Committee Report, in which the Geosciences goal is stated as "To benefit the nation by advancing the scientific understanding of the integrated Earth systems through supporting high quality research, improving geoscience education and strengthening scientific capacity." (NSF Geosciences Beyond 2000; <<http://www.geo.nsf.gov/adgeo/geo2000.htm>>). Second, a desire by the Solid Earth Sciences community to contribute fully to EarthScope <<http://www.earthscope.org/>> and future Geo-Facilities plans.

The solid Earth sciences (SES) are concerned with the characterization, origin and evolution of our planet's continental and oceanic lithosphere. Investigation of the processes that modify the lithosphere requires studies of both active environments and the geologic record of past events. Research in SES is inherently multidisciplinary and increasingly interdisciplinary, and effective communication between and integration of SES is necessary for future research advances. An intellectually vibrant community of SES researchers is essential to the future of our discipline, because central elements of the Earth System will otherwise be missing from a systematic approach to understanding our planet. SES are also an essential core of Earth Science education, so educational programs in solid Earth science should reflect the increasingly interdisciplinary nature of geoscience research, and the foundation it provides for other components of the Earth System.

Based on the workshop discussion an Integrated Solid Earth Sciences (ISES) initiative was formulated. The mission of ISES is to change the research and education culture in solid Earth sciences through communication and integration, and to stimulate the articulation of and approach to the next generation of solid Earth research. This will be accomplished by developing specific plans for:

- 1) Mechanisms to synthesize and integrate across fields.
- 2) Developing a cyberinfrastructure.
- 3) Supporting integrated research equipment facilities.
- 4) Educating and supporting the next generation of solid Earth scientists.

The ISES initiative takes a two-prong approach. First, it will facilitate integration among the current cadre of scientists through topical, annual ISES Forums that will be held at large national meetings. The first ISES Forum will be held on November 1, 2003; details below. Secondly, it will foster a cultural shift for the next generation of scientists through ISES Summers Schools for senior graduate students and ISES Summer Retreats for junior, research-oriented faculty.

Integrated Solid Earth Sciences--Announcement of Forum I

ISES Forum I: CyberInfrastructure and Geochronology

Saturday, 1 November 2003

This year, on the day before the Annual Meeting of GSA in Seattle, the ISES Coordinating Group will hold the first Integrated Solid Earth Science Forum (ISES Forum I) with the support of the NSF. ISES is the outgrowth of the "Setting Priorities in Solid Earth Science Workshop" held last year in Denver. This forum is the next step in the change in the research and education culture of the Solid Earth Sciences (SES) through communication and integration. We invite participation in the forum from individuals in all sectors of the Solid Earth Science community. ISES Forum I will involve a series of updates and presentations, will serve as a platform for discussion of research facilities and equipment, and will identify emerging needs in cyberinfrastructure to support research and education in the SES. We will discuss recent developments in the ISES Initiative and EarthScope Program, and receive an update about the ISES-CI (CyberInfrastructure) activities, including discussion of progress in some of its components. The goal in facilities and equipment is to ensure sufficient infrastructure in geochemistry, particularly geochronology, to support the increasing needs of ISES research, including research by students. Community input through the Annual ISES Forums will be used to develop new ISES initiatives to better integrate and strengthen our science. Several of the NSF EAR and OCE Directorate will attend the Forum, and will contribute to the discussion of opportunities available to the ISES community. Please come to Seattle to meet with colleagues in the Solid Earth Sciences and the NSF, and be involved in developing the ISES community and in shaping our collective future.

To apply, send a single page two-paragraph application to Mike Brown at mbrown@geol.umd.edu by Friday 26 September 2003. In the first paragraph, give your background, current interests and position, and summarize previous participation in recent workshops (e.g., "Setting Priorities in the Solid Earth Sciences", "New Departures in Structural Geology & Tectonics",

“On the Cutting Edge”, any “EarthScope” workshop), and in the second paragraph describe what you hope to contribute to ISES Forum I, including what you view as important priorities for the community and your ideas about the future direction of research and education in the Solid Earth Sciences. Please indicate the level of support you will need (generally as an add-on cost to your GSA attendance) to participate in the Forum (as a guide, we anticipated an average grant for up to 100 participants of \$400 towards travel and/or hotel costs).

Submitted by Ben van der Pluijm for the ISES Steering Group, consisting of: **Michael Brown** (University of Maryland; mbrown@geol.umd.edu); **Art Goldstein** (Colgate University; agoldstein@colgate.edu); **Cathryn Manduca** (Carleton College; cmanduca@carleton.edu); **Tracy Rushmer** (University of Vermont; trushmer@zoo.uvm.edu); **Basil Tikoff** (University of Wisconsin; basil@geology.wisc.edu); **Ben van der Pluijm** (University of Michigan; vdpluijm@umich.edu)

New structure and tectonics journal: **Geotectonic Research**

Beginning with Volume 95, *Geotectonic Research* is edited by an entirely new group of editors and will be published in the English language only. To emphasize this change, the former German title ‘*Geotektonische Forschungen*’ will be replaced by ‘*Geotectonic Research*’.

Editor: Gernold Zulauf, Universität Erlangen-Nürnberg, Germany, zulauf@geol.uni.erlangen.de

Associate Editors: John P. Craddock, Macalester College, U.S., craddock@macalester.edu; Bas den Brok, ETH Zurich, Switzerland, denbrok@erdw.ethz.ch; Leo M. Kriegsman, Nat’l Museum of History, the Netherlands, kriegsman@naturalis.nnm.nl; Nina Kukowski, GFZ, Potsdam, Germany, nina@gfz-potsdam.de; Ingo Pecher, IGNS, New Zealand, i.pecher@gns.cri.nz; Kurt Stüwe, University of Graz, Austria, kurt.stuewe@uni-graz.at

Call for papers

Geotectonic Research (*Geotektonische Forschungen*) was founded in 1937 by Hans Stille and Franz Lotze. It publishes process-oriented original papers and review articles on Tectonics and Structural Geology, *possibly too long to be accepted by other journals*. Yet the articles should generally not exceed 40 printed pages. Papers should be concise and comprehensive focusing on the following topics:

- Anatomy of orogenic belts
- Folds and related structures in rheologically stratified rocks
- Quantification of paleostress and strain
- Joints, faults and brittle fractures
- Neotectonics
- Intrusive and extrusive structures
- Microfabrics, deformation mechanisms and rheology of deformed rocks
- Analogue and numerical modeling of geological structures and processes

Contributions from national and international scientific meetings, summarizing the present state of research, are also welcome. Each volume of *Geotectonic Research* (*Geotektonische Forschungen*) usually consists of 150-200 printed pages, written in English. Usually two volumes will be published per year. If you plan to submit a paper to *Geotectonic Research* (*Geotektonische Forschungen*), please contact the editor or a member of the editorial board.

Workshop Opportunity: Teaching Structural Geology in the 21st Century

The NSF-funded program **On the Cutting Edge** announces a week-long workshop during July 2004 for college and university faculty who teach structural geology. The workshop will be an opportunity for participants 1) to learn what others are doing in teaching structural geology and to share ideas for effectively and creatively teaching structural geology in the classroom, laboratory, and field, 2) to discuss issues in teaching structural geology, and 3) to take part in collecting, developing, and disseminating effective and innovative materials for teaching structural geology. The workshop will be held at Smith College in Northampton, Massachusetts from **26 June-2 July 2004** and will include two field trip days. The workshop itself is free, but participants must pay travel costs to and from the workshop. The application deadline is January 15, 2004, and application can be made on-line at <<http://dlesecommunity.carleton.edu/NAGTWorkshops/>> after September 1.

Co-conveners are Barbara Tewksbury (Hamilton College), Robert Burger (Smith College), Jan Tullis (Brown University), and Michael Williams (University of Massachusetts, Amherst). For more information, visit the web site listed above or e-mail Barbara Tewksbury at btewksbu@hamilton.edu. The workshop is co-sponsored by NAGT and DLESE.

Friends of the Grenville Field Trip
Connection between Grenvillian Deformation and Pluton Emplacement in the Composite Arc Belt
(Tweed-Kaladar Area), Southeastern Ontario
3-5 OCTOBER 2003

The coupling between deformation and magmatism in composite arcs and other continental crust ranks high among the hottest topics in current geological research. Of continued importance in the field-based structural study of collisional orogens are topics such as *transpression* and *mid-crustal thrusting*. These topics loom large not only in neo-tectonic research, but also in current attempts at gaining a better understanding of ancient orogens. The chief purpose of this FOG field trip will be to illustrate the link between pluton emplacement, transpressive deformation and related mid-crustal faulting in a southern part of the Composite Arc Belt in southern Ontario, Canada (Tweed-Kaladar Area). Here, the walls of subhorizontal to moderately inclined dislocations furnish evidence of dip-parallel or oblique tangential shearing and concomitant stretching parallel to the strike direction. The dislocations seem to qualify as stretching thrusts that have large components of strike slip. Such faults are explicable by general scenarios of laterally unconfined transpression, as proposed recently in the structural literature.

Accommodations: Park Place Motel and Beachwood Hollow Resort, Tweed (camping also available).

Registration fee estimate: \$100 (Canadian), but people who camp will pay less. The fee will depend partly on the number of field-trip participants, and will cover lodging (two nights), two breakfasts (Saturday and Sunday), two box lunches and the guidebook. The Prospectors Association of southern Ontario has invited the FOG group for supper on Saturday evening.

Interested parties (FOG and others) should contact Fried Schwerdtner (fried.schwerdtner@utoronto.ca) Tel. (416) 978-3022, Fax (416) 978-3938 or Pierre-Yves Robin (py.robin@geology.utoronto.ca) Tel. (416) 978-5080 in the Department of Geology, University of Toronto, 22 Russell St., Toronto ON M5S 3B1, Canada.

Additional details about the trip and more information about the regional geology, including an in-depth bibliography, will be provided in the Second Circular for the FOG Field Trip, 2003. See also the First Circular (15 April 2003)—contact Fried Schwerdtner.

2002 Structural Geology and Tectonics Awards
GSA Annual Meeting, Denver



Bob Yeats, Mary Lou Zoback and Laurel Goodwin following the presentation of Bob Wallace's Career Contribution Award.



Octavian Catuneanu, recipient of the Best Paper Award with Christopher Beaumont and Paula Waschbusch for their paper: Interplay of static loads and subduction dynamics in foreland basins: reciprocal stratigraphies and the 'missing' peripheral bulge.



Division officers, past and present: Liz Schermer, current First Vice-Chair; Christian Teyssier, Chair 2000-2001; Peter Vrolijk, current Secretary-Treasurer.

Upcoming Meetings

2004 International Basement Tectonics Association Conference ***4-D Framework of the Continental Crust—Integrating Processes Through Time***

27 June-1 July 2004

Garden Plaza Hotel, 215 S. Illinois Avenue, Oak Ridge, Tennessee 37830 USA

MEETING CONCEPT—Continental crust makes up a diminutive volume of the Earth, but it is the only recorder of Earth history for major segments of geologic time. We have known for several decades that ocean crust is ephemeral for time periods exceeding 200 m.y., and we are just learning of the roles deep-mantle processes may play in governing lithospheric dynamics and its consequences: plate generation and destruction, sedimentation, plutonism, and metamorphism. Have the physical and chemical processes that generated continental crust from the earliest resolvable geologic times to the present remained constant, or have changes in the Earth's rotation rate and heat budget, atmospheric and ocean composition, increased mass and differentiation of continental crust, possible influences of increased areal extent of continental crust on mantle dynamics, and other variables altered ancient processes to those we see operating today? While focused experimental, field, and laboratory research yields important new data and ideas, an integrated, multidisciplinary exchange of data and ideas has a better chance to produce a giant step toward addressing this and related questions. In late June, 2004, we intend to bring together an international, multidisciplinary group of geoscientists to focus their energy and knowledge to achieve an order-of-magnitude increase in understanding crustal evolution. The meeting format will consist of semiformal presentations, both invited and volunteered, intended to generate discussion and debate. Presenters will be requested to be provocative, emphasize processes, concepts, and new ideas supported by state-of-the-art data, and leave enough time for discussion and presentation of alternatives and future directions for research.

Web site: <http://geoweb.gg.utk.edu/ibta04crust/meeting.html>

Abstract Deadline—1 February 2004

Electronic submittal and extended abstracts up to 1000 words with references & graphics are encouraged (to damama@utk.edu).

Post-Conference Trans-Appalachians Field Excursion—2 July–6 July 2004

Conference Volume—Reviewable manuscripts due 1 January 2005.

Cosponsorship—GSA, AGI, AGU, NSF

Conference Organizing Committee

Prof. Robert D. Hatcher, Jr., Univ. Tennessee–Knoxville

Prof. Larry D. Brown, Cornell Univ.

Prof. José Martínez Catalán, Univ. Salamanca (Spain)

Prof. G. Randy Keller, Univ. Texas–El Paso

Prof. A. Krishna Sinha, Virginia Tech

Post-Conference Field Excursion Organizing Committee

Robert D. Hatcher, Jr.

Prof. Allen J. Dennis, Univ. South Carolina–Aiken

Prof. Donald T. Secor, Jr., Univ. South Carolina–Columbia

Prof. Arthur W. Snoke, Univ. Wyoming

5th International Symposium on Eastern Mediterranean Geology

The Organizing Committee of the 5th International Symposium on Eastern Mediterranean Geology (Thessaloniki, Greece, 14-20 April 2004) cordially invites you to participate. It is intended to be a high-quality meeting, covering the entire range of earth sciences for the broader area of eastern Mediterranean.

See the web site <www.geo.auth.gr/5thISEMG> for the Second Circular and full registration information.

Contact: Dr. Alexandros Chatzipetros

Department of Geology

Aristotle University of Thessaloniki

54 124, Thessaloniki, Greece

Penrose Conference
Neogene-Quaternary Continental Margin Volcanism
12-16 January 2004
Metepéc (eastern slopes of Popocatepetl volcano), State of Puebla, Mexico

<http://tepetl.igeofcu.unam.mx/penrose/index.html>

<http://www.geosociety.org> (go to Penrose Conferences)

Conveners: **Gerardo J. Aguirre-Díaz**, ger@geociencias.unam.mx, **José Luis Macías**, macias@tonatiuh.igeofcu.unam.mx,
Claus Siebe, csiebe@tonatiuh.igeofcu.unam.mx

Application Deadline: *September 1, 2003*

Abstract Deadline: September 15, 2003

Registration Payment Due: November 1, 2003

This Penrose Conference will evaluate the present state of knowledge of the source and evolution of magmas that form in a continental-margin volcanic setting. Discussion will include petrology and origin of subduction-related magmas, the complexities of volcanic styles that promote explosive eruptions, sector collapse of volcanoes and domes, volcanoclastic sedimentation, and related volcanic hazards. We'll compare different case scenarios of continental-margin volcanic belts in the Americas, such as the Andes, the Central America Volcanic Arc, the Mexican Volcanic Belt, the Cascades, and the Aleutians. We'll also carry out a 2-day field trip to Popocatepetl active volcano. The conference is cosponsored by the International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI). Immediately after this conference, an IAVCEI workshop titled "Neogene-Quaternary continental margin volcanism: the Mexican Volcanic Belt" will be held in the form of a field trip to other locations in the Mexican Volcanic Belt.

Hedberg Conference

There will be a Hedberg Conference here in Austin on **8-11 February 2004** entitled "**Structural Diagenesis: Fundamental Advances and New Applications from a Holistic View of Mechanical and Chemical Processes**". The purpose of the conference is to gather together individuals working on faults, fractures, diagenesis, geomechanics, and fluid flow /reservoir simulation. Here's a link with more information: [<http://www.aapg.org/education/hedberg/austin/index.cfm>](http://www.aapg.org/education/hedberg/austin/index.cfm)

The South Aegean Active Volcanic Arc: Present Knowledge and Future Perspectives

The Second Announcement for the International Conference on "**The South Aegean Active Volcanic Arc: Present Knowledge and Future Perspectives**" that will be organized within the framework of Milos Conferences on **17-20 September 2003** at the "Milos Conference Center - George Eliopoulos", on Milos island, Greece is now available at our web site:

[<http://milos.conferences.gr/saava2003>](http://milos.conferences.gr/saava2003) Send your registration and accommodation form via email or fax to the Conference Secretariat promptly. For any further information about the conference you may contact us directly at:

Heliotopos Professional Congress Organizers

Address: 28, Ypsilantou str., GR-17236, Dafni - Athens

Greece

Phone: +30 210 9730697

Fax: +30 210 9767208

Email: saava2003@heliotopos.net

Additional Meetings

(See also: <http://www.agiweb.org/calendar/index.html> for a listing of earth science related meetings)

16-21 August 2003; Timberline Lodge, OR, USA

State of the Arc Conference (SOTA 2003): Energy and Mass Fluxes in Volcanic Arcs

Application deadline: passed

Contact: <http://www.iavcei.org/>

Organizing committee:

Bill Leeman (Chair, leeman@rice.edu)

Jon Davidson (J.P.Davidson@durham.ac.uk)

Tobias Fischer (fischer@unm.edu)

Anita Grunder (grundera@geo.orst.edu)

Mark Reagan (mark-reagan@uiowa.edu)

Martin Streck (streckm@pdx.edu)

2-6 September 2003; Toyohashi City, Japan

Fifth Hutton Symposium on the Origin of Granites

Abstract deadline: April 30, 2003

Contact: Hutton V office (Hutton-V@m.aist.go.jp)

<http://www.gsj.jp/Info/event/hutton>

5-6 September 2003; New Hall College, Cambridge, UK

TERRANE PROCESSES AT THE PACIFIC MARGIN OF GONDWANA (TAPMOG)

Abstract deadline: passed

Contact: <http://www.antarctica.ac.uk/Meetings/2003/TAPMOG/index.html>

Alan Vaughan (a.vaughan@bas.ac.uk)

or Phil Leat (p.leat@bas.ac.uk)

British Antarctic Survey

High Cross, Madingley Road

Cambridge CB3 0ET, UK

Fax: +44 (0)1223 362616

7-12 September 2003; Kurashiki, Japan

Goldschmidt 2003

Abstract deadline: passed

Contact: <http://www.ics-inc.co.jp/gold2003/>

7-12 September, 2003; Portsmouth, UK

Modeling Geohazards

Abstract deadline: passed

Contact: <http://www.iamg2003.com>

Tel: +44 23 9284 2259

Fax: +44 23 9284 2244

e-mail: info@iamg2003.com or iamg2003@port.ac.uk

11-12 September 2003; Cardiff University, Wales, UK

Mantle plumes: Physical processes, chemical signatures, biological effects

Abstract deadline: TBA

Contact: http://www.earth.cf.ac.uk/news/kerr_meeting.htm

21-24 September 2003

Crossroads of Geology, Energy and Culture

AAPG International Conference and Exhibition

Barcelona, Spain

Institut Cartografic de Catalunya (DPTOP)

www.aapg.org; convене@AAPG.org

21-27 September 2003

Eurogranites 2003

Southwestern Castilla-Leon Region, Spain

Registration deadline: February 15, 2003

Contact: Lola Pereira (mdp@usal.es)

7-10 October 2003

Biennial Technical Meeting and Exhibition of SAGA (South African Geophysical Association)

Pilanesberg, South Africa

Abstract deadline: March 31, 2003

Contact: Laurent Ameglio (lameglio@postino.up.ac.za)

Tel. +27 12 420 2095/3117

Fax +27 12 362 5219

2-5 November 2003

2003 Geological Society of America Annual Meeting

Seattle, WA USA

Abstract deadline: July 15, 2003

Contact: <http://www.geosociety.org/meetings/2003/>

8-12 December 2003

AGU Fall Meeting

San Francisco, CA

Abstract deadline: 28 August (mail); 4 September (electronic)

Preregistration and housing deadline: 5 November 2003

www.agu.org

15-16 March 2004

GSA South-Central Section Meeting

Texas A&M University, College Station, Texas

Abstract deadline: 16 December 2003

Christopher Mathewson, mathewson@geo.tamu.edu

25-27 March 2004

GSA Northeastern-Southeastern Sections Joint Meeting

Hilton McLean Tyson's Corner, Washington, D.C.

Abstract deadline: 16 December 2003

George Stephens, geoice@gwu.edu, Rick Diecchio, rdiecchi@gmu.edu

1-2 April 2004

GSA North-Central Section Meeting

Millennium Hotel, St. Louis, Missouri

Abstract deadline: 6 January 2004

Joachim O. Dorsch, dorsch@eas.slu.edu

18-21 April 2004

AAPG Annual Convention and Exhibition

Dallas, Texas

Abstract deadline: 11 September 2003

www.aapg.org

26-30 April 2004

European Geosciences Union (EGU) 1st General Assembly

Nice, France

Abstract Deadline: 11 January 2004

www.copernicus.org/EGU/EGU.html

3-5 May 2004

GSA Rocky Mountain-Cordilleran Sections Joint Meeting

Center on the Grove, Boise, Idaho

Abstract deadline: 27 January 2004

C.J. Northrup, cjnorth@boisestate.edu

20 – 28 August 2004

International Union of Geological Sciences 2004 Meeting

Florence, Italy

Abstract deadline: 30 November 2003

Contact: <http://www.32igc.org>

7-10 November 2004

GSA Annual Meeting

Denver, CO

14-19 November 2004

IAVCEI 2004 General Assembly: Volcanism and its Impact on Society

Pucón, Chile

Abstract deadline: May 2004

Contact: José A. Naranjo or Jorge Clavero

General Secretariat

IAVCEI 2004 GA

Av. Santa Maria 0104

Providencia

Santiago, CHILE

56-2-737 50 50 (phone); 56-2-777 19 06 (fax); iavcei@sernageomin.cl; <http://www.iavcei.org>

13-17 December 2004

AGU Fall Meeting

San Francisco, CA

*This newsletter is published biannually
by the Structural Geology & Tectonics Division of GSA.*

*If you have any announcements, ideas, professional and technical opinions, suggestions, career changes,
not-for-profit offerings, or industry news, please send them to us!*

Barbara John <bjohn@uwo.edu> or Barbara Moths Sheffels barbsheffels@aol.com

The deadline for inclusion of materials in the next issue will be 30 January 2003.



Have you heard?

Please send in your news!!

New hires, promotions, transfers, awards, activities, any "people news" — please do not be shy about contacting us. Thanks!

Congratulations to the following for their new positions and awards. **Bob Altamura** (Penn State Ph.D.) will be teaching Structural Geology at Lock Haven University of Pennsylvania this coming fall ('03). During the fall he will also be sharing results of his radargeologic mapping of the valley and ridge province in south-central Pennsylvania at the 68th Field Conference of Pennsylvania

Geologists. **Dyanna Czeck**, recent PHD graduate with **Peter Hudleston** at the University of Minnesota, has taken a new position as assistant professor at the University of Wisconsin - Milwaukee. **Laurent Godin** has moved from Simon Fraser University to Queen's University. He is now tenure-track faculty (Assistant Professor) in the Department of Geological Sciences and Geological Engineering at Queen's University (Kingston, Ontario, Canada). **Dennis Harry** has left his position as Associate Professor at the University of Alabama to take the new Edward Warner Chair in Geophysics at Colorado State University beginning in August. Dennis will be continuing his research into rift basins, fold and thrust systems, and foreland basins at CSU and hopes to have his M.S. and Ph.D. graduate programs back at full throttle by the spring. **Eric Tohver** recently completed his PhD at the Univ. of Michigan (**Ben van der Pluijm**, advisor) and received a 2-year NSF postdoctoral fellowship for studies in Brazil, where he will focus on late Proterozoic geology. **Scott Wilkins** completed his Ph.D. at the University of Nevada, Reno in the summer of 2002 and has starting working with the Structure, Traps, and Seals Team at Shell International Exploration and Production (Houston, TX).

Seven members of the division are new GSA Fellows: **Marcia G. Bjornerud**, **Vincent S. Cronin**, **Timothy F. Lawton**, **Harmon D. Maher, Jr.**, **Stephen J. Martel**, **Jane Selverstone**, and **Donna L. Whitney**. Congratulations! **John Craddock** (Macalester College) spent 8 months as a Mercator Guest Professor at the University of Erlangen, Germany, working with **Gernold Zulauf** on Alpine nappe structures in Greece. **Peter Hennings** has been named Senior Scientist - Structural Geology, ConocoPhillips Upstream Technology. He previously held the position of Manager of Structural Analysis for ConocoPhillips. **Mark A.S. McMenamin**, honored **Jim Skehan** of Boston College by documenting the new trilobite genus *Skehanos quadrangularis* (Whitfield 1884) in his December 2002 paper, "The Ptychoparioid Trilobite *Skehanos* Gen Nov. from the Middle Cambrian of Avalonian Massachusetts and the Carolina Slate Belt, USA." The trilobite occurs in Hayward's Quarry of the Braintree Slate in Quincy, Massachusetts. Under "Etymology," McMenamin notes: "Genus named for James W. Skehan, to honor his contributions to New England geology." **Christian Teyssier** received a 2003 Distinguished Teaching Award from the University of Minnesota for outstanding contributions to graduate education.

We are saddened to receive news of two deaths in our community. Bob Holdsworth, Chair of the UK Tectonic Studies Group, wrote to tell us of the recent death of Professor **Mike Coward**. Mike's funeral took place 24 July in Reading. In the future, the UK geological community - and TSG in particular - hope to be able to celebrate Mike's life and his many contributions to structural geology in an appropriate manner. Mike requested no flowers but donations in his memory are welcome. Please send to: Sue Ryder Care – Nettlebed; c/o Tomalin & Son; 38 Reading Road; Henley-on-Thames; RG9 1AG.

Michael Edwards of the Structural Processes Group, Vienna, writes that **Julian Neumayer**, a Master's ("Diplom") student from Maishof Salzburg, Austria, was killed by an ice-avalanche in the mountains of Peru in July. He was an experienced climber and a professional mountaineering guide at home in Austria in the Alps that were his "backyard". Julian, 29, was an extremely keen geologist and showed striking ability in structural geology. Many will certainly remember talking to the robust and chunky, shaggy-haired Austrian student who brimmed with enthusiasm as he presented his work of a newly-balanced fold & thrust section of the NW Himalaya at recent meetings. Julian will be greatly missed by us all. He is survived by his wife and newborn child. We send our best wishes to both families.

2002-2003 Structural Geology and Tectonics Division

Chair

Martha O. Withjack
Rutgers University
Department of Geological Sciences
Piscataway, NJ 08854-8066
ph: 732-445-6974; fax: 732-445-3374
DrMeow3@yahoo.com

First Vice-Chair

Elizabeth R. Schermer
Department of Geology, MS 9080
Western Washington University
Bellingham, Washington 98225-9080
ph: 360-650-3658; fax: 360-650-7302
schermer@cc.wvu.edu

Second Vice-Chair

Dave Lageson
USGS-MSU Earthquake Science
Laboratory
Department of Earth Sciences
P.O. Box 173480
Montana State University
Bozeman, MT 59717-3480 USA
Ph: 406 994-6913; fax: 406-994-6923
lageson@montana.edu

Secretary/Treasurer

Peter J. Vrolijk
ExxonMobil Upstream Research Company
P.O. Box 2189
Houston, Texas 77252-2189
ph: 713-431-4151; fax: 713-431-7305
peter.vrolijk@exxonmobil.com

Past Chair

Laurel B. Goodwin
Dept. of Earth & Environmental Science
New Mexico Tech
Socorro, NM 87801-4796
ph: 505-835-5178; fax: 505-835-6436
lgoodwin@nmt.edu

GSA Councilor/Division

Liaison Representative

J. Christopher Hepburn
Boston College
Dept of Geology and Geophysics
140 Commonwealth Avenue
Chestnut Hill, MA 0247-3809
Ph: 617-552-3642; fax: 617-552-2462
Hepburn@bc.edu

Newsletter Co-Editors

Barbara E. John
Department of Geology and Geophysics
University of Wyoming
Laramie, Wyoming 82071-3006
ph: 307-766-4232; fax: 307-766-6679
bjohn@uwoyo.edu

and

Barbara Moths Sheffels
9 East Rd.
Wayland, MA 01778-1903
ph: 508-358-5461; fax: 508-358-5461
barbsheffels@aol.com