



THE  
GEOLOGICAL  
SOCIETY  
OF AMERICA®

# JOINT MEETING

## Northeastern & Southeastern

*Plan your 2010 GSA Section Meeting attendance!*

45th Annual Meeting of the Northeastern Section, GSA  
59th Annual Meeting of the Southeastern Section, GSA  
Baltimore, Maryland, USA  
13–16 March 2010

[www.geosociety.org/sectdiv/northe/2010mtg/](http://www.geosociety.org/sectdiv/northe/2010mtg/)



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*Linking North and South  
Exploring the Connections between Continent and Sea*

## VENUE

Baltimore is a major port city located along the upper Chesapeake Bay astride the Fall Zone, which separates the low-lying Coastal Plain province to the east from igneous and metamorphic rocks exposed in the Piedmont to the west. This joint meeting will be held at the Sheraton Baltimore City Center Hotel in downtown Baltimore, a few blocks from the Inner Harbor, with its numerous attractions, including the National Aquarium at Baltimore and the Maryland Science Center.

## CONTACT INFORMATION AND OTHER DETAILS

**Meeting co-chairs:** Chuck Bailey, [cmbail@wm.edu](mailto:cmbail@wm.edu); Noel Potter, [pottern@dickinson.edu](mailto:pottern@dickinson.edu)

**Technical program co-chairs:** Katie Farnsworth, [katie.farnsworth@iup.edu](mailto:katie.farnsworth@iup.edu); Wright Horton, [whorton@usgs.gov](mailto:whorton@usgs.gov).

**Hosted by** representatives from the Dept. of Geology at the College of William & Mary, the Dept. of Geology at Dickinson College, the Dept. of Geoscience at Indiana University of Pennsylvania, the U.S. Geological Survey, the Dept. of Geology and Environmental Science at James Madison University, the Pennsylvania Geological Survey, the Dept. of Geology and Environmental Sciences at the College of Charleston, the Dept. of Earth Science at Penn State–Brandywine, and the Dept. of Geology at West Chester University.

**Also in conjunction with this meeting** are meetings of the Eastern Section, SEPM (Society for Sedimentary Geology); the Northeastern and Southeastern sections of the Paleontological Society; the Northeast and Southeast Regions of the Association for Women Geoscientists (AWG); the Geology Division of the Council on Undergraduate Research (CUR); and the Eastern, New England, and Southeastern Sections of the National Association of Geoscience Teachers (NAGT).

## ACCOMMODATIONS

**Hotel registration deadline:** 20 February 2010

A block of rooms has been reserved at the Sheraton Baltimore City Center Hotel, 101 West Fayette Street, Baltimore, MD 21201, USA. Special meeting rates are US\$139 single/double; US\$159 triple; and US\$179 quad (per night, plus tax). Please call the Sheraton at +1-866-837-5182 and request a reservation under “Geological Society of America.” If you stay at the Sheraton, but do not reserve a room through the Sheraton reservation line, please let Noel Potter ([pottern@dickinson.edu](mailto:pottern@dickinson.edu)) know so that we may count your room toward our meeting quota.



Front Cover and above: Fells Point waterfront.  
Photo courtesy Visit Baltimore.

## REGISTRATION

**Early registration deadline:** 8 February 2010

**Cancellation deadline:** 16 February 2010

**Register at** [www.geosociety.org/sectdiv/northe/2010mtg/](http://www.geosociety.org/sectdiv/northe/2010mtg/)

On-site registration at the Sheraton Baltimore City Center begins Saturday afternoon, 13 March.

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

	Early Reg.		Standard Reg.	
	Full Mtg.	One Day	Full Mtg.	One day
Professional Member	\$160	\$110	\$190	\$130
Professional Member 70+	\$90	\$70	\$120	\$90
Professional Nonmember	\$180	\$130	\$210	\$160
Student Member	\$55	\$45	\$75	\$65
Student Nonmember	\$65	\$55	\$85	\$75
K-12 Professional	\$65	\$50	\$75	\$60
Guest or Spouse	\$40	\$30	\$40	\$30
Field Trip or Workshop Only	\$30	\$30	\$30	\$30

## TECHNICAL PROGRAM

### Symposia

- It All Starts In the Field: In Honor of Wallace A. Bothner.** Jo Laird, University of New Hampshire, [jl@cisunix.unh.edu](mailto:jl@cisunix.unh.edu); Steven Whitmeyer, James Madison University, [whitmesj@jmu.edu](mailto:whitmesj@jmu.edu); Stephen Allard, Winona State University, [sallard@winona.edu](mailto:sallard@winona.edu).  
This symposium will highlight field-based research and education by geoscientists influenced by Wally Bothner. Topics include New England geology, Appalachian tectonics, and the cross-disciplinary nature of geoscience research and education associated with fieldwork and mapping.
- The New Bedrock Geologic Map of Vermont: New Answers, New Problems, and New Uses of Bedrock Geologic Data.** Nicholas M. Ratcliff, U.S. Geological Survey, [nratclif@usgs.gov](mailto:nratclif@usgs.gov); Marjie Gale, Vermont Geological Survey, [marjorie.gale@state.vt.us](mailto:marjorie.gale@state.vt.us); Peter Thompson, University of New Hampshire, [pjt3@cisunix.unh.edu](mailto:pjt3@cisunix.unh.edu).  
The forthcoming bedrock geologic map of Vermont represents a 20-year effort by numerous geologists from federal, state, and academic institutions. This symposium will focus on new aspects and questions associated with the geology of Vermont.
- Asbestos: Past, Present, and Future.** *Cosponsored by GSA Geology and Health Division.* Catherine Skinner, Yale University, [catherine.skinner@yale.edu](mailto:catherine.skinner@yale.edu); Mickey Gunter, University of Idaho, [mgunter@uidaho.edu](mailto:mgunter@uidaho.edu).  
This symposium will discuss and overview asbestos minerals, including problems of identification for researchers and regulators, as well as common perceptions, and will provide up-to-date scientific information useful for mineralogists and geologists, and other individuals, especially those responsible for community decisions who know this as an expensive hazard.

### 2010 NE/SE GSA Theme Sessions

- The Iapetan Rifted Margin and Rift History of Eastern Laurentia.** William A. Thomas, University of Kentucky, [geowat@uky.edu](mailto:geowat@uky.edu); Denis Lavoie, Geological Survey of Canada, [delavoie@nrcan.gc.ca](mailto:delavoie@nrcan.gc.ca).
- Laurentian-Gondwanan Interactions in the Paleozoic.** Jim Hibbard, North Carolina State University, [jim\\_hibbard@ncsu.edu](mailto:jim_hibbard@ncsu.edu); Cees van Staal, Geological Survey of Canada, [cees.vanstaal@nrcan-nrcan.gc.ca](mailto:cees.vanstaal@nrcan-nrcan.gc.ca); Sandra Barr, Acadia University, [sandra.barr@acadiau.ca](mailto:sandra.barr@acadiau.ca); William A. Thomas, University of Kentucky, [geowat@uky.edu](mailto:geowat@uky.edu).
- Tectonic Significance of Buried Terranes of the Atlantic and Gulf Coastal Plains.** Wright Horton, U.S. Geological Survey, [whorton@usgs.gov](mailto:whorton@usgs.gov); Paul Mueller, University of Florida, [mueller@geology.ufl.edu](mailto:mueller@geology.ufl.edu).



Fort McHenry. Photo courtesy Visit Baltimore.



Back cover and above: Washington Monument. Photo courtesy Visit Baltimore.

4. **Strike-Slip and Transpressional Tectonics in the Appalachians and Beyond.** Chuck Trupe, Georgia Southern University, [chtrupe@georgiasouthern.edu](mailto:chtrupe@georgiasouthern.edu); Kevin Stewart, University of North Carolina, [kgstewart@email.unc.edu](mailto:kgstewart@email.unc.edu); David West, Middlebury College, [dwest@middlebury.edu](mailto:dwest@middlebury.edu).
5. **Vorticity and Strain in Shear Zones.** Ryan Thigpen, Virginia Tech, [thigpe05@vt.edu](mailto:thigpe05@vt.edu); Micah Jessup, University of Tennessee, [mjessup@utk.edu](mailto:mjessup@utk.edu).
6. **Geologic Maps, Geophysical Maps, and Derivatives from Geologic and Geophysical Maps (Posters).** Michael W. Higgins, Geologic Mapping Institute, [mhiggins@mindspring.com](mailto:mhiggins@mindspring.com); Ralph F. Crawford, Geologic Mapping Institute, [crawford@sprintmail.com](mailto:crawford@sprintmail.com).
7. **Landscape Evolution in the Appalachians: Rates, Dates, and Models.** Greg Hancock, College of William & Mary, [gshanc@wm.edu](mailto:gshanc@wm.edu); Paul Bierman, University of Vermont, [paul.bierman@uvm.edu](mailto:paul.bierman@uvm.edu).
8. **Recent Advances in Understanding the Geomorphology and Quaternary History of the Appalachian Region and Adjacent Regions.** Todd Grote, Allegheny College, [tgrote@allegheny.edu](mailto:tgrote@allegheny.edu); J. Steven Kite, West Virginia University, [jkite@wvu.edu](mailto:jkite@wvu.edu).
9. **Evolution of the Atlantic and Gulf Coasts from Rift Margin to Passive Margin.** Amy Weislogel, University of Alabama, [aweislogel@geo.ua.edu](mailto:aweislogel@geo.ua.edu); Delores Robinson, University of Alabama, [dmr@geo.ua.edu](mailto:dmr@geo.ua.edu).
10. **The Integration of Marine and Non-Marine Subsurface Sediments to the Interpretation of the Stratigraphic Record of the Atlantic Coastal Plain.** Jesse Thornburg, Temple University, [jesse.thornburg@temple.edu](mailto:jesse.thornburg@temple.edu); Stephen Peterson, Temple University, [sppete@temple.edu](mailto:sppete@temple.edu).
11. **Stratigraphy, Correlation, Depositional Environments, and Paleontology of Pliocene to Pleistocene MIS 5 Deposits of the Atlantic Coastal Plain.** Kelvin W. Ramsey, Delaware Geological Survey, [kwr Ramsey@udel.edu](mailto:kwr Ramsey@udel.edu); John F. Wehmiller, University of Delaware, [jwehm@udel.edu](mailto:jwehm@udel.edu).
12. **The Impact of Climate Change on Barrier Island–Backbarrier Systems.** *Cosponsored by Eastern Section, SEPM.* Michael S. Fenster, Randolph-Macon College, [mfenster@rmc.edu](mailto:mfenster@rmc.edu); Duncan M. FitzGerald, Boston University, [dunc@bu.edu](mailto:dunc@bu.edu).
13. **Measuring and Modeling Coastal Morphodynamics: Beaches and Shelves.** Art Trembanis, University of Delaware, [art@udel.edu](mailto:art@udel.edu); Adam Skarke, University of Delaware, [askarke@udel.edu](mailto:askarke@udel.edu).
14. **Coastal and Nearshore Processes Affecting Our National Parks.** Courtney Schupp, National Park Service, [courtney\\_schupp@nps.gov](mailto:courtney_schupp@nps.gov); Mark Borrelli, Provincetown Center for Coastal Studies, [mborrelli@coastalstudies.org](mailto:mborrelli@coastalstudies.org).
15. **Estuarine Sediment Dynamics.** Cindy Palinkas, University of Maryland Center for Environmental Science, [cpalinkas@hpl.umces.edu](mailto:cpalinkas@hpl.umces.edu).
16. **Connecting Continent and Sea: Paleoecologic Studies of the Eastern North American Continental Margin from Coastal Plain to Abyss.** *Cosponsored by The Paleontological Society and Eastern Section, SEPM.* Neil E. Tibert, University of Mary Washington, [ntibert@umw.edu](mailto:ntibert@umw.edu); H. Allen Curran, Smith College, [acurran@smith.edu](mailto:acurran@smith.edu).
17. **Insights from Microfossils: From Geoarchaeology and Pollution Remediation to Climate and Sea-Level Change.** Miriam Katz, Rensselaer Polytechnic Institute, [katzm@rpi.edu](mailto:katzm@rpi.edu); Francine McCarthy, Brock University, [francine@brocku.ca](mailto:francine@brocku.ca); Ellen Thomas, Yale University, [ethomas@wesleyan.edu](mailto:ethomas@wesleyan.edu).
18. **Eastern Ichnology: Advances in Paleoenvironmental Applications of Trace Fossils.** *Cosponsored by Eastern Section, SEPM.* Jacob Benner, Tufts University, [jacob.benner@tufts.edu](mailto:jacob.benner@tufts.edu); Ilya Buynevich, Temple University, [ibuynevich@whoi.edu](mailto:ibuynevich@whoi.edu).
19. **Geologic and Paleoenvironmental History of the Chesapeake Bay.** Rowan Lockwood, College of William & Mary, [rxlock@wm.edu](mailto:rxlock@wm.edu); Thomas Cronin, U.S. Geological Survey, [tcronin@usgs.gov](mailto:tcronin@usgs.gov).
20. **Energy Resources in the Eastern United States and Associated Environmental Effects.** Devin Castendyk, State University of New York–College at Oneonta, [castendn@oneonta.edu](mailto:castendn@oneonta.edu); Joseph Graney, Binghamton University, [jgraney@binghamton.edu](mailto:jgraney@binghamton.edu).
21. **Case Histories in Engineering Geology, Eastern United States.** James T. Kirkland, Professional Consulting Corporation, [envpcc@aol.com](mailto:envpcc@aol.com); Page Herbert, [paherbert@aol.com](mailto:paherbert@aol.com).
22. **Selenium as an Essential Micronutrient: Geologic and Geographic Sources and Efficacy.** Michalann Hart Hill, GHI Inc., [mharthill@gmail.com](mailto:mharthill@gmail.com).
23. **Mercury in the Environment: From Maine to Florida.** Julia L. Barringer, U.S. Geological Survey, [jbarringer@usgs.gov](mailto:jbarringer@usgs.gov); Zoltan Szabo, U.S. Geological Survey, [zszabo@usgs.gov](mailto:zszabo@usgs.gov); John Reinfelder, Rutgers University, [reinfelder@envsci.rutgers.edu](mailto:reinfelder@envsci.rutgers.edu).
24. **Hydrogeology of Wetlands and Watershed Processes.** Timothy Callahan, College of Charleston, [callahant@cofc.edu](mailto:callahant@cofc.edu); Vijay Vulava, College of Charleston, [vulavav@cofc.edu](mailto:vulavav@cofc.edu).
25. **Cave and Karst Deposits in the Eastern United States: Archives of Paleoclimates and Paleoenvironments.** Russell W. Graham, Pennsylvania State University, [rgraham@ems.psu.edu](mailto:rgraham@ems.psu.edu); Blaine Schubert, East Tennessee State University, [schubert@etsu.edu](mailto:schubert@etsu.edu).
26. **Interaction between Shallow and Deep Karst: Geologic, Hydrologic, Geochemical, and Biologic Indicators.** Dan Doctor, U.S. Geological Survey, [dhdctor@usgs.gov](mailto:dhdctor@usgs.gov); Bruce Lindsey, U.S. Geological Survey, [blindsey@usgs.gov](mailto:blindsey@usgs.gov).
27. **Ancient and Modern Carbonates of Eastern North America.** *Cosponsored by Eastern Section, SEPM.* Bosiljka Glumac, Smith College, [bglumac@smith.edu](mailto:bglumac@smith.edu); Sara Pruss, Smith College, [spruss@smith.edu](mailto:spruss@smith.edu).
28. **Faculty and Student Perspectives on Undergraduate Research: Models, Challenges, and Best Practices.** Dori Farthing, SUNY-Geneseo, [farthing@geneseo.edu](mailto:farthing@geneseo.edu); Peter Sak, Dickinson College, [sakp@dickinson.edu](mailto:sakp@dickinson.edu); Jeffrey Ryan, University of South Florida, [ryan@shell.cas.usf.edu](mailto:ryan@shell.cas.usf.edu).
29. **Innovations in Teaching Earth-System Science for the K–12 Classroom.** Laura Guertin, Pennsylvania State University–Brandywine, [uxg3@psu.edu](mailto:uxg3@psu.edu); Tanya Furman, Pennsylvania State University, [furman@psu.edu](mailto:furman@psu.edu).
30. **The November Nor'easter of 2009—A Preliminary Discussion of the Effects throughout the Atlantic Coast Region.** Art Trembanis, University of Delaware, [art@udel.edu](mailto:art@udel.edu); Katie Farnsworth, Indiana University of Pennsylvania, [kfarns@iup.edu](mailto:kfarns@iup.edu).

## FIELD TRIPS

### Premeeting

1. **Geomorphology, Soils, Landscape Evolution, and Land Use in The Virginia Piedmont and Blue Ridge.** Leaves at 8 a.m., Sat., 13 March, from Best Western Hotel, Ruckersville, Virginia; returns to Ruckersville by 4 p.m. Cost: US\$135; includes transportation, and field guide. Meals not provided. Max: 23; min.: 10. Cullen Sherwood, L. Scott Eaton, James Madison University, sherwowc@jmu.edu.

This one-day field trip will examine soils and landforms across the diverse geologic terrain of the western Piedmont and Blue Ridge in north-central Virginia and place those observations in a broader framework of landscape evolution from the late Cenozoic to the modern.

2. **Geology Trails in Delaware Water Gap National Recreation Area, New Jersey–Pennsylvania.** Meet at the Pocono Inn, Delaware Water Gap, Pennsylvania, on the evening of Fri., 12 March; end at Delaware Water Gap by 5:30 p.m. on Sat., 13 March (with additional 4-hr drive to Baltimore). Cost: US\$190; includes transportation, lunch both days, lodging Fri. night, and field guide. Max./min.: 6. Jack Epstein, U.S. Geological Survey, jepstein@usgs.gov.

This one-day trip is targeted mainly for earth-science educators and Pennsylvania geologists needing to meet state-mandated education requirements for licensing professional geologists.

3. **Tectonic Evolution of the Peach Bottom Area, South-Central Pennsylvania.** Leaves at 7:30 a.m. on Sat., 13 March, from the Sheraton Baltimore City Center Hotel; returns by 5 p.m. Cost: US\$50; includes transportation, lunch, and field guide. Max: 27; min.: 10. Rodger T. Faill, Pennsylvania Geological Survey, rcrfaill@juno.com; Robert C. Smith II, Pennsylvania Geological Survey.

The Peach Bottom area in the western Piedmont of southeast Pennsylvania has long been considered a regional syncline, with the Peach Bottom Slate belt lying in its core. This one-day trip will present a new stratigraphy for rocks that were described as Peters Creek and Wissahickon Formations a century ago.

4. **Magmatic Layering and Intrusive Plumbing in the Jurassic Morgantown Sheet, Central Atlantic Magmatic Province.** Leaves at 6:30 a.m. on Sat., 13 March, from the Sheraton Baltimore City Center Hotel; returns by 5 p.m. Cost: US\$80; includes transportation, lunch, and field guide. Max: 24; min: 10. LeeAnn Srogi, West Chester University, +1-610-436-2721, lsrogi@wcupa.edu; Loretta Dickson, Lock Haven University; Meagen Pollock, College of Wooster; Ben Edwards, Dickinson College; Tim Lutz, West Chester University.

On this one-day trip, we will explore two excellent exposures of the Jurassic diabase of the Morgantown Sheet, located in southeastern Pennsylvania between the Newark and Gettysburg basins. Stops will provide opportunities to debate the origins of magmatic layering and the “plumbing” of a shallow-level magmatic system.

5. **Coastal Processes and Engineering at Assateague Island.** Leaves at 6 p.m. on Thurs., 11 March, from the Sheraton Baltimore City Center Hotel; returns Sat., 13 March, by 5 p.m. Cost: US\$205; includes transportation, meals, lodging Thurs. & Fri. nights, and field guide. Max: 19; min: 10. Sean Cornell,

Shippensburg University, +1-717-477-1310, srcornell@ship.edu; Cynthia Venn, Bloomsburg University.

The two-day field trip will include stops at Ocean City, Maryland, the northern end of Assateague Island, and the south end of Assateague and on Wallops Island proper. The primary emphasis will be on coastal processes and the history of coastal engineering. Overnight will be at the Marine Science Consortium at Wallops Island, Virginia.

### Postmeeting

6. **A Traverse of Proterozoic to Paleozoic Laurentia, Virginia Blue Ridge and Valley and Ridge.** Leaves at 6 p.m. on Tues., 16 March, from the Sheraton Baltimore City Center Hotel; returns Thurs., 18 March, by 10 p.m. Cost: US\$270; includes transportation, lunch each day, lodging Tues. & Wed. nights, and field guide. Max: 24; min: 8. Lynn Fichter, Steve Whitmeyer, James Madison University, +1-540-568-6130, fichtels@jmu.edu; Chuck Bailey, College of William & Mary; Bill Burton, U.S. Geological Survey.

This two-day field trip will encompass an east-to-west traverse of the Blue Ridge and Valley and Ridge geologic provinces of western Virginia and West Virginia and examine excellent exposures of basement to supracrustal rocks in the context of both stratigraphic and structural principles to gain an improved perspective of the Appalachian orogenic cycle from the Proterozoic to the Paleozoic. The trip will also discuss the pedagogy of integrating stratigraphy, structure, and tectonics in the field.

7. **The Early through Late Pleistocene Record in the Susquehanna River Basin.** Leaves at 7:30 a.m. on Wed., 17 March, from the Sheraton Baltimore City Center Hotel; returns Thurs., 18 March, by 6 p.m. Cost: US\$235; includes transportation, lunch and dinner each day, lodging Wed. night, and field guide. Max: 24; min: 8. Duane Braun, Bloomsburg University, +1-207-244-0295, dbraun@bloomu.edu.

The two-day trip will travel up the Susquehanna Valley examining the early to late Pleistocene erosion features and deposits with a general overview of the Appalachian Mountain landscape. The journey will start in the lower Susquehanna bedrock gorge in the Piedmont, cross the Valley and Ridge, and reach the edge of the Plateau.

8. **Stratigraphy of Calvert, Choptank, and St. Marys—Chesapeake Bay Area.** Leaves at 6 p.m. on Tues., 16 March, from the Sheraton Baltimore City Center Hotel; returns Thurs., 18 March, by 5 p.m. Cost: US\$435; includes transportation, all meals each day, lodging Tues. & Wed. nights, and field guide. Max: 20; min: 10. L.W. (Buck) Ward, Virginia Museum of Natural History, +1-276-634-4171, lauck.ward@vmnh.virginia.gov; Dave Powers, U.S. Geological Survey.

This trip will start in Baltimore with an overnight at Solomons, Maryland, with field trip stops along the Chesapeake Bay to Solomons

## WORKSHOPS

1. **Creating and Using Interactive Geologic Maps and Models in Google Earth.** Sat., 13 March, 8 a.m.–4 p.m. Cost: US\$35. Max.: 25, min.: 10. Declan DePaor, Old Dominion University, [ddepaor@odu.edu](mailto:ddepaor@odu.edu); Steve Whitmeyer, James Madison University, [whitmesj@jmu.edu](mailto:whitmesj@jmu.edu).

Workshop participants will explore various methods for building interactive geologic maps within Google Earth and learn how to create 3-D models of geologic features and structures. This workshop is aimed at geoscience graduate students and instructors at all levels.

2. **Pursuing an Academic Career: An On the Cutting Edge Workshop for Graduate Students and Post-Docs.** Sat., 13 March, 8 a.m.–4 p.m. Cost: US\$35. Max.: 25, min.: 6. Rachel Beane, Bowdoin College, [rbeane@bowdoin.edu](mailto:rbeane@bowdoin.edu); Jon Lewis, Indiana University of Pennsylvania, [jclewis@iup.edu](mailto:jclewis@iup.edu).

The workshop will offer resources for and insights into designing effective courses, writing clear research and teaching statements, and other aspects of applying to and starting academic positions. Workshop Web site: <http://serc.carleton.edu/NAGTWorkshops/careerdev/AcademicCareer2010/index.html>.

3. **Building Core Knowledge and Reconstructing Earth History.** Sat., 13 March, 8 a.m.–5 p.m. Cost: US\$35. Max.: 25, min.: 10. Kristen St. John, James Madison University, [stjohnke@jmu.edu](mailto:stjohnke@jmu.edu); Mark Leckie, University of Massachusetts–Amherst; Megan Jones, North Hennepin Community College; Kate Pound, St. Cloud University, [kspound@stcloudstate.edu](mailto:kspound@stcloudstate.edu).

This one-day course is designed for faculty teaching undergraduate introductory geoscience courses in climate change, oceanography, historical geology, or earth science. Learning materials distributed in the short course will be anchored in fundamental practices and discoveries of scientific ocean drilling research programs (IODP, legacy DSDP and ODP, and ANDRILL).

4. **Analyzing Earth Signals with J-DSP: Real-Time, Deep-Time, and Online.** Sat., 13 March, 10 a.m.–3 p.m. Cost: US\$35. Max.: 20; min.: 5. Linda Hinnov, Johns Hopkins University, [hinnov@jhu.edu](mailto:hinnov@jhu.edu); Andreas Spanias, Arizona State University; Karthikeyan Ramamurthy, Arizona State University.

Learn how to analyze Earth signals with the online Java-Digital Signal Processing (J-DSP) Laboratory. Participants must bring their own laptop computers. This course is part of a new Phase 3 multidisciplinary J-DSP project funded by the National Science Foundation.

## OPPORTUNITIES FOR STUDENTS

### Mentor Programs

Please go to [www.geosociety.org/mentors/](http://www.geosociety.org/mentors/) for more information about these programs. Every registered student will receive free tickets to attend these mentor luncheons; however, attendance is limited, and meals are on a first come, first served. *Cosponsored by the GSA Foundation.*

1. **Roy J. Shlemon Mentor Program in Applied Geoscience.** Sun.–Mon., 14–15 March, lunchtime. This program is designed to extend the mentoring reach of individual professionals from applied geology to undergraduates and graduate students attending GSA Section Meetings. Over FREE LUNCHEONS, mentors discuss professional opportunities and challenges that await students after graduation.

2. **The John Mann Mentors in Applied Hydrogeology Program.** Tues. 16 March, lunchtime. This program presents mentoring opportunities for undergraduate, graduate, and recent graduate students with a declared interest in applied hydrogeology as a career to interact and network with practicing hydrogeology professionals. This relaxed, but focused, small-scale event features a FREE LUNCH for student and professional participants.

### Student Travel Grants

Travel grants are available from GSA's Northeastern and Southeastern Sections in cooperation with the GSA Foundation and are open to all GSA student members who are currently enrolled in Northeastern and Southeastern Section schools and presenting oral or poster papers at this meeting. You must register for the meeting before you can apply for the travel grant. For eligibility requirements, contact Stephen Pollock, [pollock@usm.maine.edu](mailto:pollock@usm.maine.edu) (NE Section), Don Neal, [neald@ecu.edu](mailto:neald@ecu.edu) (SE Section), or check [www.geosociety.org/grants/travel/](http://www.geosociety.org/grants/travel/). **Application deadline:** 8 Feb.

## SPECIAL MEETINGS

### Northeastern Section GSA, Management Board Meeting.

Sat., 13 March, 4–6 p.m. Open to the public.

### Southeastern Section GSA, Management Board Meeting.

Sat., 13 March, 4–6 p.m. Open to the public.

### NEGSA 2011 Planning Meeting.

Sun., 14 March, noon–1:30 p.m. The 2011 NEGSA meeting will be a joint meeting with the North-Central Section of GSA and will be held in Pittsburgh, Pennsylvania, USA; for more information, contact Patrick Burkhardt, [patrick.burkhardt@sru.edu](mailto:patrick.burkhardt@sru.edu).

### Eastern Section of the Society for Sedimentary Geology (ES-SEPM) Reception and Business Meeting.

Sun., 14 March, 5:30–7 p.m. Keynote Speaker: Tim Carr, SEPM Foundation President.

### Eastern, New England, and Southeastern Sections of the National Association of Geoscience Teachers (NAGT)

#### Luncheon and Business Meeting.

Mon., 15 March, noon–1:30 p.m. Fee: US\$23.50.

### Northeastern and Southeastern Sections of The Paleontological Society Luncheon and Business Meeting.

Tues., 16 March, noon–1 p.m. Fee: US\$27.50.

## SPECIAL EVENTS

**Welcoming Reception.** Sat., 13 March, 6:30–8:30 p.m. You are cordially invited to enjoy the hospitality of Baltimore as you visit with friends and colleagues. Exhibits will be open.

**Plenary Session.** Sun., 14 March, 4–5 p.m. Geosciences and Public Policy: A panel discussion with elected officials and policymakers.

**Northeastern Section GSA Map Blast XII.** Sun., 14 March, 7–9:30 p.m., with cash bar. This highly successful and informal session displays newly published, unpublished, or in-progress geologic maps of any sort. All attendees are welcome to bring, post, and discuss past, recent, or planned mapping efforts.

**Panel Discussion on Asbestos.** Sun., 14 March, 7–9 p.m. *Cosponsored by GSA Geology and Health Division.* This is a follow-up discussion of Sunday's symposium, "Asbestos: Past, Present, and Future."

### Association for Women Geoscientists (AWG) Career Development Breakfast.

Mon., 15 March, 6:30–8 a.m. This informal networking breakfast provides opportunities for students and professionals in academia, government, and industry to meet and to

learn more about AWG. Both AWG members and non-members are welcome. Fee: professionals: US\$26; students: US\$11.

**Reception.** Mon., 15 March, 6–7 p.m., with cash bar. Enjoy conversation with friends and colleagues before the conference banquet.

**Conference Banquet.** Mon., 15 March, 7–9 p.m. Fee: professionals, US\$39; students US\$25.

**Banquet Address.** Mon., 15 March, 8 p.m. “Geologic Exploration in Antarctica.” Bruce Marsh, Department of Earth and Planetary Sciences, Johns Hopkins University.

## EXHIBITS

**Space application deadline:** 23 February

**Cost:** 8-ft × 10-ft booths with pipe and drape: US\$325 for commercial exhibitors; US\$225 for educational, government, and nonprofit organizations.

The exhibit area will be adjacent to poster presentations; morning and afternoon beverage service will be in the immediate vicinity. For information, contact Rose-Anna Behr, [rosbehr@state.pa.us](mailto:rosbehr@state.pa.us).

### Exhibit Hall Hours

Sat., 13 March: 6–8:30 p.m.

Sun.–Mon., 14–15 March: 9 a.m.–5 p.m.

Tues., 16 March: 8:30–11:30 a.m.

## SPONSORSHIP

Organizations interested in sponsoring or cosponsoring posters, symposia, theme sessions, the welcoming reception, or coffee breaks, or in donating to the general sponsorship of the meeting, should contact Noel Potter, [pottern@dickinson.edu](mailto:pottern@dickinson.edu), or Chuck Bailey, [cmbail@wm.edu](mailto:cmbail@wm.edu).



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Baltimore's Inner Harbor. Photo courtesy Visit Baltimore.





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