

Scientific Field Trips

Descriptions and leader bios are online.

Plan now to take advantage of these amazing trips as part of your GSA 2015 experience. Please contact the trip leaders directly if you have questions about trip details (check online for more information). All trips begin and end at the Hilton Baltimore unless otherwise indicated. Trip fees include transportation during the trip (unless otherwise noted); other services, such as meals and lodging, are noted with each trip (see key).

Thanks to generous support from ExxonMobil, 10 field trips are being offered at a discounted rate for students (these trips are denoted with an asterisk). Registration for each trip is on a first-come, first-served basis, and discounted student space is limited.



PRE-MEETING

401. Holocene Barrier Island Geology and Morphodynamics along the Maryland and Virginia Open-Ocean Coasts: Fenwick, Assateague, Chincoteague, Wallops, Cedar, and Parris Islands.

Wed.–Sat., 28–31 Oct. US\$475 (2B, 4L, 1D, R, 3ON). **Leaders:** Randolph A. McBride, George Mason University; Michael S. Fenster; Christopher Seminack. **Cosponsors:** GSA *Sedimentary Geology Division*; GSA *Quaternary Geology and Geomorphology Division*.

402. Geomorphology, Active Tectonics, and Landscape Evolution in the Mid-Atlantic Region.*

Wed.–Sat., 28–31 Oct. US\$425 (3L, 2D, R, 3ON). *Limited student price: US\$300. **Leaders:** Frank J. Pazzaglia, Lehigh University; Mark W. Carter; Gregory S. Hancock; David J. Harbor; G. Richard Whittecar; Paul Bierman; James A. Spotila. **Cosponsor:** GSA *Quaternary Geology and Geomorphology Division*.

403. From the Freezer to the Fire: Neoproterozoic Tectonics, Glaciation, and Volcanism in the Central Appalachian Blue Ridge Province.*

Thurs.–Sat., 29–31 Oct. US\$275 (2L, R, 2ON). *Limited student price: US\$140. **Leaders:** Christopher Bailey, College of William & Mary; Callan Bentley; Scott Southworth; Alan J. Kaufman. **Cosponsors:** GSA *Structural Geology and Tectonics Division*; GSA *Sedimentary Geology Division*; EGU *Structural Geology & Tectonics Division*.

404. William Smith's Map and Other Treasures of the History of Geology at the Academy of Natural Sciences, American Philosophical Society, and Library Company, Philadelphia.

Fri., 30 Oct. US\$99 (1B, 1L, R). **Leaders:** Gary D. Rosenberg, Milwaukee Public Museum; Sally Newcomb; Hugh Torrens. **Cosponsor:** GSA *History and Philosophy of Geology Division*.

405. Paul S. Sarbanes Ecosystem Restoration Project at Poplar Island.

Fri., 30 Oct. US\$85 (1L). **Leaders:** Justin Callahan, U.S. Army Corps of Engineers, Baltimore District; Maria Orosz. **Cosponsors:** U.S. Army Corps of Engineers, Baltimore District; Maryland Port Administration; Maryland Environmental Service.

407. Cambrian-Ordovician of the Central Appalachians: Correlations and Event Stratigraphy of Carbonate Platform and Adjacent Deep-Water Deposits.*

Fri.–Sat., 30–31 Oct. US\$220 (2L, R, 1ON). *Limited student price: US\$110. **Leaders:** David K. Brezinski, Maryland Geological Survey; John F. Taylor; John E. Repetski; James D. Loch.

408. Appalachian Stratigraphy, Tectonics, and Eustasy from the Blue Ridge to the Allegheny Front, Virginia and West Virginia.*

Fri.–Sat., 30–31 Oct. US\$230 (2L, R, 1ON). *Limited student price: US\$115. **Leaders:** John T. Haynes, James Madison University; Alan Pitts; Richard J. Diecchio; Mitch Blake Bascombe Jr.; Ronald McDowell; Daniel H. Doctor.

409. Cenozoic Stratigraphy and Structure of the Chesapeake Bay Region.

Fri.–Sat., 30–31 Oct. US\$180 (2L, R, 1ON). **Leaders:** David S. Powars, USGS; Lucy E. Edwards; J. Stephen Schindler; Susan M. Kidwell.

410. Coastal and Wetland Ecosystems of the Chesapeake Bay Watershed: Applying Palynology to Understand Impacts of Changing Climate, Sea Level, and Land Use.

Sat., 31 Oct. US\$85 (1L, R). **Leaders:** Debra A. Willard, USGS; Christopher Bernhardt; Cliff R. Hupp. **Cosponsor:** AASP - *The Palynological Society*.

Key: B—breakfast; L—lunch; D—dinner; R—refreshments; ON—overnight lodging; * = discounted rates may be available for students.

411. Geology, Engineering, and the Chesapeake & Ohio Canal (A William Smith Bicentenary Activity)

Sat., 31 Oct. US\$90 (1L, R). **Leaders:** Bob Behling, West Virginia University; Katherine M. Loughney. **Cosponsors:** William Smith Bicentenary Committee; GSA History and Philosophy of Geology Division.

413. Field Geology of the Baltimore Mafic Complex, Pennsylvania–Maryland State Line.*

Sat., 31 Oct. US\$90 (1L, R). *Limited student price: US\$50. **Leaders:** Stephen G. Shank, Pennsylvania Geological Survey; L. Lynn Marquez; Christopher R. Hardy. **Cosponsor:** Pennsylvania Geological Survey.

414. Geologic Investigation of the Impact of a Subsurface Coal Fire: Centralia, Pennsylvania.

Sat., 31 Oct. US\$99 (1L, R). **Leaders:** Jennifer M. Elick, Susquehanna University; J. Fred McLaughlin.

415. The Tectono-Thermal Evolution of the Central Appalachian Orogen: Accretion of a Peri-Gondwanan(?) Ordovician Arc.*

Sat., 31 Oct. US\$87 (1L, R). *Limited student price: US\$47. **Leaders:** Howell Bosbyshell, West Chester University; Lee Ann Srogi; William S. Schenck; Gale C. Blackmer. **Cosponsor:** GSA Structural Geology and Tectonics Division.

416. Kirk Bryan Field Trip: Great Falls of the Potomac and the Evolution of a Decay-Phase Orogen, the Appalachian Mountains.

Sat., 31 Oct. US\$125 (1L, 1D, R). **Leaders:** Paul Bierman, University of Vermont; Eric Kirby; William B. Ouimet; Eric W. Portenga; Frank Pazzaglia; Gregory S. Hancock. **Cosponsor:** GSA Quaternary Geology and Geomorphology Division.

417. The History of Stone Quarrying in the Baltimore Area, Including a Visit to the Historic Cockeysville Marble Quarry.

Sat., 31 Oct. US\$49 (R). **Leaders:** Joseph T. Hannibal, Cleveland Museum of Natural History; Page Herbert. **Cosponsor:** Heritage Stone Task Force of the IUGS.

418. Hydrology and Geomorphology of Urban Streams and Riparian Zones in the Baltimore Metropolitan Area.

Sat., 31 Oct. US\$95 (1L, R). **Leaders:** Andrew Miller, Univ. of Maryland, Baltimore County; Claire Welty; Robert J. Shedlock; Edward J. Doheny. **Cosponsors:** Andrew Miller, University of Maryland, Baltimore County; Claire Welty, University of Maryland, Baltimore County; Ed Doheny, USGS.

419. The Lost Springs of Washington, D.C., Late Tertiary and Quaternary Sediments of D.C., and the Baltimore LTER: The Hydrogeology of Urbanization.

Sat., 31 Oct. US\$90 (1L). **Leader:** John M. Sharp, The University of Texas Jackson School of Geosciences.

420. K–12 Earth Science Educators Trip to the National Museum of Natural History.

Sat., 31 Oct. US\$28. **Leaders:** Michael J. Passow, Smithsonian Institution National Museum of Natural History; Adam Blankenbicker. **Cosponsors:** Smithsonian Institution National Museum of Natural History; National Earth Science Teachers Association.

421. Rockin' DC: A Geological Overview of the National Mall and Its Building Stones.

Sat., 31 Oct. US\$85 (1L); students and K–12 teachers only. **Leaders:** Kenneth Rasmussen, Northern Virginia Community College; Victoria Martin. **Cosponsors:** GSA Geoscience Education Division; GSA Sedimentary Geology Division.

422. The Geology of the Gettysburg Battlefield and its Influence on Military History.

Sat., 31 Oct. US\$130 (1L, 1D, R). **Leaders:** Roger J. Cuffey, Pennsylvania State Univ.; Vincent L. Santucci. **Cosponsors:** Penn State University; National Park Service Geologic Resources Division; Gettysburg National Military Park.

423. The Delmarva Peninsula: A Field Laboratory for Studies of Shallow Groundwater Flow and Quality.

Sat., 31 Oct. US\$90 (1L). **Leaders:** Robert J. Shedlock, Maryland–Delaware–District of Columbia Water Science Center; Judith M. Denver; Jeff P. Raffensperger; Ward E. Sanford.

424. Building Stones of Downtown Baltimore.

Sat., 31 Oct. US\$36. **Leaders:** David W. Bolton, Maryland Geological Survey; Joseph T. Hannibal. **Cosponsor:** Heritage Stone Task Group of the International Union of Geological Sciences.

POST-MEETING

425. A Billion Years of Deformation in the Central Appalachians: Orogenic Processes and Products.*

Wed.–Fri., 4–6 Nov. US\$250 (2B, 2L, R, 2ON). *Limited student price: US\$125. **Leaders:** Steven J. Whitmeyer, James Madison University; Christopher M. Bailey; David B. Spears. **Cosponsor:** GSA Structural Geology and Tectonics Division.

426. The Shale Hills Critical Zone Observatory.

Thurs., 5 Nov. US\$95 (1L, R). **Leaders:** Don Duggan-Haas, The Paleontological Research Institution; Susan L. Brantley; Tim White. **Cosponsors:** GSA Geoscience Education Division; National Association of Geoscience Teachers.

427. Experience Capitol Hill: Geoscience and Public Policy in Washington D.C.

Thurs., 5 Nov. US\$49. **Leaders:** Kasey S. White, Geological Society of America; Jeffrey Rubin; David Robert Wunsch; Jonathan G. Price. **Cosponsor:** GSA Geology and Public Policy Committee.

428. USGS: Then and Now.

Thurs., 5 Nov. US\$75 (1L). **Leaders:** Susan G. Stover, University of Kansas; Suzette Kimball; David Applegate; Virginia Burkett; Scott Southworth. **Cosponsors:** *GSA Geology and Public Policy Committee; USGS.*

429. Acoustic Seafloor Mapping of the Baltimore Harbor.

Thurs., 5 Nov. US\$95. **Leaders:** Stephen VanRyswick, Coastal & Estuarine GeoSciences Program; Elizabeth Sylvia. **Cosponsor:** *Maryland Geological Survey.*

430. Stream Restoration in Geologic Regions of Maryland.

Thurs., 5 Nov. US\$105 (1L). **Leaders:** Eric Dougherty, Maryland State Highway Administration Engineering Geology Division; Todd Nichols. **Cosponsor:** *Maryland State Highway Administration.*

431. Late Devonian Climate Change and Glaciogenic Facies in the Central Appalachians.

Thurs., 5 Nov. US\$110 (1L, R). **Leaders:** David K. Brezinski, Maryland Geological Survey; Blaine Cecil; William DiMichele.

432. The Building Stones of the National Mall.

Thurs., 5 Nov. US\$20. **Leaders:** Richard A. Livingston, University of Maryland; Carol A. Grissom. **Cosponsors:** *University of Maryland; Smithsonian Institution.*

433. Smithsonian Museum of Natural History—Fossil Collections and Exhibitions.

Thurs., 5 Nov. US\$30. **Leaders:** Scott L. Wing, Smithsonian Institution; Kathy Hollis; Siobhan Starrs. **Cosponsor:** *Smithsonian Institution Museum of Natural History.*

434. Tour of the Smithsonian Meteorite Collection.

Thurs., 5 Nov. US\$10. **Leader:** Cari Corrigan, Smithsonian Institution. **Cosponsor:** *GSA Planetary Geology Division.*

435. Miocene Stratigraphy and Paleoenvironments of the Calvert Cliffs, Maryland.*

Thurs.–Fri., 5–6 Nov. US\$160 (2L, R, 1ON). *Limited student price: US\$85. **Leaders:** Susan M. Kidwell, Univ. of Chicago; Lucy E. Edwards; David S. Powars; Peter R. Vogt.

436. Biology and Geology of Cranesville and Finzel Swamps in Garrett County, Western Maryland.

Thurs.–Fri., 5–6 Nov. US\$225 (2L, R, 1ON). **Leaders:** Dan Feller, Maryland Dept. of Natural Resources; Sunshine Brosi; Rebecca Kavage-Adams.

437. Karst of the Mid-Atlantic Region in Maryland, West Virginia, and Virginia.*

Thurs.–Sat., 5–7 Nov. US\$380 (3L, 1D, 2ON). *Limited student price: US\$200. **Leaders:** Daniel H. Doctor, USGS; David J. Weary; David K. Brezinski; Randall C. Orndorff; Lawrence E. Spangler. **Cosponsors:** *GSA Karst Division; GSA Hydrogeology Division; Karst Waters Institute; National Cave and Karst Research Institute.*

438. Cretaceous Stratigraphy and Palynology of the Maryland Coastal Plain.*

Thurs., 5 Nov. US\$120 (1L, R). *Limited student price: US\$65. **Leaders:** Peter P. McLaughlin, University of Delaware; Heather Quinn. **Cosponsor:** *AASP - The Palynological Society.*

GSA Associated Society Field Trips

SOCIETY OF ECONOMIC GEOLOGISTS (SEG)

Register via the SEG website, www.segweb.org. Early registration: 1 Aug.–28 Sept. SEG reserves the right to cancel these trips should minimum attendance numbers (min. 12, max. 20) not be met. Late registration pricing begins after 28 Sept.

Pre-Meeting Trip

The Historic Sykesville Ultramafic Rock-Associated, Fe-Cu-Co-Zn-Ni Mineral District: Tailings and Core.

Sat., 31 Oct. **Leaders:** Philip A. Candela, University of Maryland; Philip M. Piccoli, University of Maryland; Ann G. Wylie, University of Maryland.

Post-Meeting Trip

Placer Deposits of the Atlantic Coastal Plain: Stratigraphy, Sedimentology, Mineral Resources, Mining and Reclamation.

Thurs.–Fri., 5–6 Nov. **Leaders:** C. Richard Berquist, College of William and Mary; Adam Karst, Iluka Resources Inc.; Anjana K. Shah, USGS.

SOCIETY FOR SEDIMENTARY GEOLOGY (SEPM)

Student Field Trip: Geology and Paleontology of Calvert Cliffs (Chesapeake Group), Calvert County, Maryland.

Sun., 1 Nov. Fee: \$25 (L D R). Limit: 35 participants—restricted to students only. Includes transportation and guidebook. Register at www.sepm.org. **Leaders:** Stephen Godfrey, Calvert Marine Museum; Peter Vogt, Marine Science Institute, University of California, Santa Barbara; John Nance, Calvert Marine Museum; and Bob Clarke, consultant.

Short Course Program

GSA-sponsored professional development short courses will be held immediately before and during the annual meeting and are open to members and nonmembers. A course-only registration fee is required if you are not attending the meeting. This fee may be applied toward meeting registration if you decide to attend. ***On-site registration is based on availability and costs an additional US\$30. All prices listed below reflect this increase.*** BCC—Baltimore Convention Center.

501. Springs Inventory and Assessment

When: Fri.–Sat., 30–31 Oct., 8 a.m.–5 p.m.
Where: U.S. Fish and Wildlife Service's National Conservation Training Center (Cinepherdstown, West Virginia).
Cost: \$715; includes breakfast, lunch, and transportation

502. Sequence Stratigraphy for Graduate Students

When: Fri.–Sat., 30–31 Oct., 8 a.m.–5 p.m.
Where: Hilton, Johnson Room
Cost: \$US55

503. Field Safety Leadership

When: Fri.–Sat., 30–31 Oct., 8 a.m.–5 p.m.
Where: BCC, Room 304
Cost: US\$55; includes lunch

504. Introduction to Petroleum Structural Geology

When: Fri.–Sat., 30–31 Oct., 8 a.m.–5 p.m.
Where: BCC, Room 305
Cost: US\$55; includes lunch

505. Structural and Stratigraphic Concepts Applied to Basin Exploration

When: Fri.–Sat., 30–31 Oct., 8 a.m.–5 p.m.
Where: BCC, Room 306
Cost: US\$55; includes lunch

506. Dynamics of the Subsurface Flow of Groundwater, Hydrocarbons, and Sequestered CO₂: Physics and Field Examples

When: Fri.–Sat., 30–31, 8 a.m.–5 p.m.
Where: Hilton Baltimore, Peale A Room
Cost: \$195

507. Near-Surface Geophysics for Non-Geophysicists

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Hilton Baltimore, Calloway Room
Cost: \$113, includes course materials

508. Making a GeoFabLab: How to Combine 3D Scanning, 3D Modeling and 3D Printing for Education and Research

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Hilton Baltimore, Paca Room
Cost: \$130

509. Introduction to Story Maps: Workshop and Hands-On Session

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Hilton Baltimore, Holiday Ballroom 2
Cost: \$138

510. Introduction to Terrestrial Laser Scanning (Ground-Based LiDAR) for Earth Science Research and Education

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Sheraton Inner Harbor, Severn Room I
Cost: \$75

511. Three-Dimensional Geologic Mapping

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Sheraton Inner Harbor, Loch Raven Room
Cost: \$114; includes lunch

512. Statistical Treatment of Structural Geology Data

When: Sat., 31 Oct., 8 a.m.–5 p.m.
Where: Hilton Baltimore, Ruth Room
Cost: \$130



513. Applications of Commercial Satellite Imagery for Polar Science

When: Sat., 31 Oct., 8 a.m.–5 p.m.

Where: Sheraton Inner Harbor, Camden Room I

Cost: \$139

514. Ground-Penetrating Radar: Principles, Practice, and Processing

When: Sat., 31 Oct., 8 a.m.–5 p.m.

Where: Hilton Baltimore, Pickersgill Room

Cost: \$80

515. Building Teaching Skills for Future Faculty

When: Sat., 31 Oct., 8 a.m.–5 p.m.

Where: Hilton Baltimore, Tubman Room

Cost: \$130

516. Medical Geology: How the Natural Environment Gets Away with Murder

When: Sat., 31 Oct., 8:30 a.m.–5 p.m.

Where: Hilton Baltimore, Holiday Ballroom 1

Cost: \$111

517. Digital Evolutionary Trees: Create Exciting Evolutionary Trees, Packed with Images and Information and Integrated with a Comprehensive Earth History Database

When: Sat., 31 Oct., 9 a.m.–4 p.m.

Where: Johns Hopkins University, Homewood Campus, Olin Hall

Cost: \$70

518. U-Th-Pb Geochronology and Hf Isotope Geochemistry Applied to Detrital Minerals

When: Sat., 31 Oct., 9 a.m.–5 p.m.

Where: Sheraton Inner Harbor, Potomac Room

Cost: \$75

519. Digital Geologic Mapping: Flat Map Data Collection with QGIS and Introduction to 3D Mapping Techniques

When: Sat., 31 Oct., 9 a.m.–5 p.m.

Where: Sheraton Inner Harbor, Sassafras Room

Cost: \$139

520. Digital Field Mapping and Model Building

When: Sat., 31 Oct., 9 a.m.–5 p.m.

Where: Hilton Baltimore, Douglass Room

Cost: \$55

521. Time Series Data Publication with the CUAHSI Water Data Center

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Sheraton Inner Harbor, Harborview Ballroom II

Cost: \$80

522. Geochemical Modeling for Students and Teachers

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Sheraton Inner Harbor, Harborview Ballroom I

Cost: \$73

523. William “Strata” Smith and Geo-Education: Using the History of Geology for Teaching Mapping, Scientific Practices, and the Nature of Science

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Sheraton Inner Harbor, Severn Room II/III

Cost: \$50

524. Teaching Controversial Issues 1: Climate and Energy

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Hilton Baltimore, Carroll Room

Cost: \$65

525. Quantitative Optical Mineralogy

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Sheraton Inner Harbor, Camden Room II

Cost: \$75

526. Using Geodetic Data in Introductory Courses: Ice Mass and Sea-Level Changes Module for Intro-Level Undergraduates

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Hilton Baltimore, Brent Room

Cost: \$60

527. Teaching Geoethics across the Geoscience Curriculum

When: Sat., 31 Oct., 8 a.m.–noon.

Where: Hilton Baltimore, Holiday Ballroom 3

Cost: \$80

528. Professional Geoscience Ethics: Fundamentals and Case Histories

When: Sat., 31 Oct., 1–5 p.m.

Where: Sheraton Inner Harbor, Harborview Ballroom I

Cost: \$100

529. Teaching Controversial Issues 2: Evolution of Life and Earth

When: Sat., 31 Oct., 1–5 p.m.

Where: Hilton Baltimore, Carroll Room

Cost: \$65

530. Groundwater–Surface Water Interactions: Concepts Every Geoscientist Should Know

When: Sat., 31 Oct., 1–5 p.m.

Where: Sheraton Inner Harbor, Camden Room II

Cost: \$125

**531. Interactive Strategies for the Classroom:
A How-to Guide Using Examples about Igneous Rocks**

When: Sat., 31 Oct., 1–5 p.m.

Where: Sheraton Inner Harbor, Severn Room II/III

Cost: \$50

**532. Supporting Student Success in Geoscience Departments
and Programs**

When: Sat., 31 Oct., 1–5 p.m.

Where: Hilton Baltimore, Holiday Ballroom 3

Cost: \$80

**533. Welcome to the Anthropocene: Teaching Resources for
a New Epoch**

When: Sat., 31 Oct., 1–5 p.m.

Where: Sheraton Inner Harbor, Harborview Ballroom II

Cost: \$55

**534. Using Geodetic Data in Majors-Level Courses: Analyzing
Active Tectonics with LiDAR, InSAR, and GPS Data Applied
to Critical Societal Issues**

When: Sat., 31 Oct., 1–5 pm.

Where: Hilton Baltimore, Brent Room

Cost: \$60

**535. How to Talk to Strangers: Selling Yourself and Your
Science, for Students**

When: Sat., 31 Oct., 2–4 p.m.

Where: BCC, Room 304

Cost: \$40

GSA Associated Society Course

GSA does not handle registration for this course.

PALEONTOLOGICAL SOCIETY

**Earth-Life Transitions: Paleobiology in the Context of Earth
System Evolution**

Sat., 31 Oct., 9 a.m.–5 p.m., Baltimore Convention Center, Room 310. No registration required. Cost: FREE. Limit: None. CEU: None. **Instructors:** P. David Polly, Indiana University; Jason J. Head, University of Nebraska–Lincoln; David L. Fox, University of Minnesota. Learn more at community.geosociety.org/gsa2015/science-careers/courses#as.

CALL FOR PAPERS

GSA TODAY



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① GET NOTICED: *GSA Today*'s print edition has a large circulation, reaching more than 25,000 readers. All articles are open-access online, and page views for 2014 science articles total more than 47,000 so far (html files only; Google Analytics data, Aug. 2015).

② GET CITED: Since its premier in 1991, *GSA Today* has generated a tremendous proportion of citations considering that only one peer-reviewed science article is published per month. The top year for citations was 1997, with more than 1,600; articles published in 2014 are slowly building up steam, with 54 citations so far (Google Scholar data, Aug. 2015).

③ MAKE THE COVER: Publication of your science article in *GSA Today* includes a high-impact, color front cover to draw readers to your science.

④ MAKE AN IMPACT: *GSA Today* is ranked ninth *in the world* among geoscience journals according to SCImago Journal Country Rank, which measures a journal's impact, influence, and prestige.

⑤ HIT THE GROUND RUNNING: *GSA Today* currently does not have a backlog; you could see your article in print within three months of acceptance!

www.geosociety.org/gsatoday

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GEOLOGICAL SOCIETY OF AMERICA		
Academic and Applied Geoscience Relations Committee Meeting	Hilton, Mencken Room	2 Nov., 5–6 p.m.
Afternoon Beer Receptions	BCC, Exhibit Hall	2–4 Nov., 4:30–6:30 p.m.
Audit Committee Meeting	Hilton, Poe A Room	30 Oct., noon–4 p.m.
Baltimore Icebreaker (Cosponsored by <i>Towson University</i>)	BCC, Ballroom III & IV	31 Oct., 5–7 p.m.
Best Student Geologic Map Competition (Cosponsored by <i>U.S. Geological Survey National Cooperative Geologic Mapping Program; Geological Society of America; American Geosciences Institute; Geological Society of America Foundation; Association of American State Geologists; Journal of Maps; American Institute of Professional Geologists</i>)	BCC, Exhibit Hall	3 Nov., 5–6:30 p.m.
Bridging Two Continents Luncheon with Featured Keynote speaker Dr. James Hansen **Ticketed Event** (Cosponsored by <i>Geological Society of America; Geological Society of China</i>)	BCC, Ballroom III	2 Nov., noon–1:30 p.m.
Campus Representatives Appreciation Breakfast **Invitation Only**	BCC, Room 302/303	3 Nov., 7–8:30 a.m.
Congressional and Science Policy Fellowships Information & Reception	BCC, Room 305	2 Nov., 6–7:30 p.m.
Council Meeting, Day 1	Hilton, Holiday Ballroom 4	31 Oct., 8 a.m.–noon
Council Meeting, Day 2	Hilton, Johnson Room	4 Nov., 8 a.m.–noon
Diversity in the Geosciences and On To the Future Alumni Reception	BCC, Camden Lobby	3 Nov., 5:30–7 p.m.
Diversity in the Geosciences Committee Meeting	Hilton, Holiday Ballroom 5	2 Nov., 1–2 p.m.
Diversity in the Geosciences Task Force Meeting	Hilton, Holiday Ballroom 5	2 Nov., 2–4 p.m.
Division Chairs Business Meeting	Hilton, Holiday Ballroom 4	31 Oct., 1–5 p.m.
Education Committee Business Meeting	Hilton, Peale A Room	1 Nov., 2–4 p.m.
Exhibits Opening Reception	BCC, Exhibit Hall	1 Nov., 5:30–7 p.m.
First-Time Attendee Orientation	BCC, Room 345/346	31 Oct., 4–4:45 p.m.
Foundation Board of Trustees Meeting	Hilton, Holiday Ballroom 5	31 Oct., 8 a.m.–5:30 p.m.
Foundation Development Committee Meeting	Hilton, Peale C Room	1 Nov., 1–3 p.m.
Foundation Senior Fellows and Friends Reception **Invitation Only**	Hilton, Holiday Ballroom 6	2 Nov., 5:30–7:30 p.m.
GeoCareers in Industry: Pathways to a Successful Career: Building Value Workshop	Hilton, Holiday Ballroom 6	31 Oct., 1–4 p.m.
GeoCareers in Industry: Company Info Session	BCC, Exhibit Hall	1 Nov., 1:30–4 p.m.
GeoCareers in Industry: Company Presentations	BCC, Exhibit Hall	1 Nov., 1:30–4 p.m.
GeoCareers in Industry: Evening Reception **By Invitation Only**	BCC, Camden Lobby	1 Nov., 4:30–5:30 p.m.
GeoCareers in Industry: Research Poster Session	BCC, Exhibit Hall	1 Nov., 9–11 a.m.
GeoCareers Interview Service (formerly the Employment Service Center)	BCC, Exhibit Hall	2 Nov., 9 a.m.–6 p.m.; 3 Nov., 9 a.m.–1 p.m.
GeoCareers Résumé Clinic	BCC, Exhibit Hall	1 Nov., 9 a.m.–5 p.m.
GeoCorps™ America and Mosaics in Science Reception for Alumni and Partners	Pratt Street Ale House	2 Nov., 4:30–6:30 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Geology and Public Policy Committee Meeting	Hilton, Latrobe Room	31 Oct., 11:30 a.m.–4 p.m.; 1 Nov., 8 a.m.–noon
Geology in Government Career Pathways Luncheon	BCC, Ballroom IV	2 Nov., 11:30 a.m.–1 p.m.
Geology in Industry Career Pathways Luncheon	BCC, Ballroom IV	1 Nov., 11:30 a.m.–1 p.m.
Geoscience Careers Student Networking Luncheon (Cosponsored by <i>American Geosciences Institute; Geological Society of America; Society of Economic Geologists; Society of Economic Geologists Foundation; American Institute of Professional Geologists</i>)	BCC, Ballroom III	3 Nov., 11:30 a.m.–1 p.m.
GSA and ExxonMobil Student Research Grant Award Poster Session	BCC, Sharp Street Lobby	2 Nov., 4–5 p.m.
GSA President's Brunch **By Invitation Only**	Hilton, Poe Room	1 Nov., 10:45–11:45 a.m.
International Business Meeting	Hilton, Peale C Room	1 Nov., 9–11:30 a.m.
International Reception: Bridging Continents, Exchanging Greetings, and Building Partnerships (Cosponsored by <i>Geological Society of China</i>)	Hilton, Holiday Ballroom 4	2 Nov., 6:30–8:30 p.m.
James Balog Book Signing	BCC, Exhibit Hall, GSA Bookstore	3 Nov., 9–10:30 a.m.
Joint AGI/GSA Societies Meeting	Hilton, Holiday Ballroom 4	2 Nov., 8 a.m.–noon
Journals Editorial Meeting	BCC, Room 303	3 Nov., 11:30 a.m.–1:30 p.m.
Leadership Training	Hilton, Johnson Room	3 Nov., 7–8:30 a.m.
Local Section Meeting Chairs Round Table Meeting	BCC, Room 302	3 Nov., 2–3:30 p.m.
NOVA Special: <i>Making North America</i> , Episode 1, "Origins" followed by Q&A with Kirk Johnson, Paula Apsell, and Julia Cort (Cosponsored by NOVA)	BCC, Ballroom III	3 Nov., 5:45–7:30 p.m.
On To the Future Gatherings	BCC, Camden Lobby	2–4 Nov., 7:30–8 a.m.
On To the Future Welcome Gathering	BCC, Camden Lobby	31 Oct., 4:45–5:45 p.m.
Open Forum: Harnessing Technology to Communicate Science (Cosponsored by <i>Geosphere</i>)	BCC, Room 302	3 Nov., 5:45–7 p.m.
Post-Meeting Field Trip 427—logistics meeting for participants—Experience Capitol Hill: Geoscience and Public Policy in Washington D.C. (Cosponsored by <i>GSA Geology and Public Policy Committee</i>)	Hilton, Room TBD	5 Nov., 7–7:30 a.m.
Presidential Address and Awards Ceremony	BCC, Room 327/328/329	1 Nov., noon–1:30 p.m.
President's Reception **By Invitation Only**	Hilton, Holiday Ballroom 6	1 Nov., 6:30–7:45 p.m.
Professional Development Committee Meeting	Hilton, Mencken Room	2 Nov., 8:30–9:30 a.m.
Publications Committee Meeting	Hilton, Poe Room	31 Oct., noon–5:30 p.m.
Science Communications Workshop: Be Heard & Be Interesting	BCC, Room 312	31 Oct., 8 a.m.–noon
Science Editor Summit	Hilton, Poe Room	31 Oct., 10 a.m.–noon
Session Chair Orientation	BCC, Room 336	31 Oct., 3:30–4 p.m.; 1–3 Nov., 12:15–12:45 p.m.
Simon Winchester Book Signing (Cosponsored by <i>GSA Geology and Society Division</i>)	BCC, Exhibits Hall, GSA HQ Booth	1 Nov., 5:45–7 p.m.
Special Lecture: John P. Holren, White House OSTP Director	BCC, Room 309	3 Nov., 2–3 p.m.
Student Advisory Council Meeting	Hilton, Johnson Room	2 Nov., noon–1:30 p.m.
Student Research Grant Writing Workshop	BCC, Room 338	3 Nov., noon–1 p.m.

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Student Volunteer Technical Program Orientation	BCC, Room 336	31 Oct., 3:30–4 p.m.; 1–3 Nov., 12:15–12:45 p.m.
What's Your Problem, What's Your Point Workshop	BCC, Room 304	1 Nov., 11:30 a.m.–2 p.m.
Women in Geology Career Pathways Reception	BCC, Ballroom III	1 Nov., 5–6:30 p.m.
Feed Your Brain		
Ellen Stofan, "Science at NASA: Exploring Planets in this Solar System and Beyond"	BCC, Room 327/328/329	4 Nov., 12:15–1:15 p.m.
James Balog, "The Art & Science of Chasing Ice"	BCC, Room 327/328/329	2 Nov., 12:15–1:15 p.m.
Marcia McNutt, GSA Halbouty Lecturer & Geology and Society Division Distinguished Lecturer, "Deepwater Horizons: Lessons Learned for Better Disaster Preparedness"	BCC, Room 327/328/329	3 Nov., 12:15–1:15 p.m.
GSA Guest Program		
Local Tour 101: Baltimore Art Museums with City Tour	BCC, Pratt Street Lobby	1 Nov., 9:30 a.m.–2:30 p.m.
Local Tour 102: Baltimore's Historic Churches	BCC, Pratt Street Lobby	2 Nov., 8:30 a.m.–12:30 p.m.
Local Tour 103: Foodie Tour of Little Italy	BCC, Pratt Street Lobby	2 Nov., 1–4 p.m.
Local Tour 104: Whirlwind Tour of Washington D.C.	BCC, Pratt Street Lobby	3 Nov., 8:30 a.m.–3:30 p.m.
Local Tour 105: Baltimore Architecturally Speaking	BCC, Pratt Street Lobby	3 Nov., 1–5 p.m.
Local Tour 106: Star-Spangled Baltimore	BCC, Pratt Street Lobby	4 Nov., 8:30 a.m.–3:30 p.m.
Local Tour 107: Jewel of the Chesapeake	BCC, Pratt Street Lobby	4 Nov., 8:30 a.m.–3:30 p.m.
Seminar #1: The Art of Crab Cracking	BCC, Pratt Street Lobby	2 Nov., 10–11 a.m.
Seminar #2: The Life & Writings of Edgar Allan Poe	BCC, Pratt Street Lobby	4 Nov., 10–11 a.m.
Scientific Field Trips (see p. 50–52)		
Short Courses (see p. 53–55)		
GSA DIVISIONS		
Archaeological Geology		
Business Meeting and Awards Ceremony	BCC, Room 318	2 Nov., 5:45–8 p.m.
Executive Committee Meeting	Off-Site Location TBD	1 Nov., 6:30–8 p.m.
Energy Geology		
Business Meeting and Awards Reception	BCC, Room 321	3 Nov., 5:45–7:45 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Environmental and Engineering Geology		
Business Meeting	Hilton, Calloway Room	1 Nov., 1–5 p.m.
Dinner & Awards Ceremony **Ticketed Event**	Pratt Street Ale House	3 Nov., 6–11 p.m.
Geobiology & Geomicrobiology		
Luncheon	Hilton, Calloway Room	2 Nov., noon–1:30 p.m.
Geoinformatics		
Business Meeting	Hilton, Calloway Room	3 Nov., 5:30–6:30 p.m.
Reception	Hilton, Poe B Room	3 Nov., 6:30–7:30 p.m.
Geology and Health		
Business Meeting	BCC, Room 325/326	2 Nov., noon–1 p.m.
Geology and Society		
Annual Meeting of the Membership	BCC, Room 327/328/329	3 Nov., 5:30–6:30 p.m.
Distinguished Lecture by Simon Winchester: “William Smith: The Man, His Map, and the Democratization of Geology”	BCC, Room 327/328/329	1 Nov., 4–5 p.m.
Management Board Meeting	Hilton, Peale C Room	2 Nov., 11:30 a.m.–1:30 p.m.
Rocks and Hops Soiree (Cosponsored by <i>GSA Geology and Public Policy Committee</i>)	Pratt Street Ale House	1 Nov., 7–9 p.m.
Geoheritage Matters Informal Discussion (Erika Vye, Benjamin van Wyk de Vries, and Tom Casadevall, Convening) (Cosponsored by <i>GSA Geology and Society Division</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Quaternary Geology and Geomorphology Division</i>)	Hilton, Poe B Room	2 Nov., 6:30–7:30 p.m.
Simon Winchester Book Signing (Cosponsored by <i>GSA Geology and Society Division</i>)	BCC, Exhibits Hall, GSA HQ Booth	1 Nov., 5:45–7 p.m.
Geophysics		
Business Meeting and Social	BCC, Room 340	2 Nov., 5:45–7 p.m.
Geoscience Education		
Geoscience Educators’ Reception (Cosponsored by <i>GSA Geoscience Education Division</i> ; <i>National Association of Geoscience Teachers</i> ; <i>Cutting Edge</i> ; <i>Council for Undergraduate Research</i> ; <i>GSA Education Committee</i> ; <i>American Geosciences Institute</i> ; <i>IRIS</i> ; <i>UNAVCO</i> ; <i>InTeGrate</i>)	BCC, Camden Lobby	1 Nov., 7–9 p.m.
National Association of Geoscience Teachers (NAGT) and GSA Geoscience Education Division Awards Luncheon **Ticketed Event** (Cosponsored by <i>Council on Undergraduate Research Geosciences Division</i>)	Hilton, Holiday Ballroom 5	3 Nov., 11:30 a.m.–1 p.m.
Management Board Meeting	Hilton, Ruth Room	3 Nov., 8–10 a.m.
Open Business Meeting	Hilton, Ruth Room	3 Nov., 10 a.m.–noon

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Next Generation Science Standards (NGSS) Implementation Town Hall Forum (Cosponsored by <i>National Association of Geoscience Teachers</i> ; <i>American Geosciences Institute</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Education Committee</i>)	BCC, Room 321	4 Nov., 12:15–1:15 p.m.
Geoheritage Matters Informal Discussion (Erika Vye, Benjamin van Wyk de Vries, and Tom Casadevall, Convening) (Cosponsored by <i>GSA Geology and Society Division</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Quaternary Geology and Geomorphology Division</i>)	Hilton, Poe B Room	2 Nov., 6:30–7:30 p.m.
History and Philosophy of Geology		
Luncheon, Business Meeting & Awards Ceremony **Ticketed Event**	Hilton, Holiday Ballroom 1	3 Nov., noon–2 p.m.
Management Board Meeting	Hilton, Calloway Room	1 Nov., 6:30–9 a.m.
Reception with Prizes, Wine, Beer, and Snacks	Hilton, Peale A Room	3 Nov., 5:30–7:30 p.m.
Hydrogeology		
Birdsall-Dreiss Distinguished Lecture	BCC, Ballroom IV	3 Nov., 4:30–5:30 p.m.
Henry Darcy Distinguished Lecture (Cosponsored by <i>National Ground Water Association</i> ; <i>GSA Hydrogeology Division</i>)	BCC, Ballroom IV	2 Nov., 5:30–6:30 p.m.
Luncheon, Awards & Business Meeting **Ticketed Event**	BCC, Ballroom IV	3 Nov., 11:30 a.m.–3:30 p.m.
Management Board Meeting I	Hilton, Peale A Room	1 Nov., 11 a.m.–1 p.m.
Management Board Meeting II	Hilton, Poe Room	4 Nov., 7–9 a.m.
Student Reception	BCC, Ballroom IV	3 Nov., 5:30–8 p.m.
Karst		
Business Meeting	BCC, Room 340	3 Nov., 5:30–7 p.m.
Limnogeology		
Seds & Suds Business Meeting with Sedimentary Geology Division	BCC, Room 307	3 Nov., 6–8 p.m.
Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV)		
Division Business Meeting	BCC, Room 319/320	1 Nov., 12:45–1:15 p.m.
Joint Reception **Ticketed Event** (Cosponsored by <i>GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division</i> ; <i>Mineralogical Society of America</i> ; <i>Geochemical Society</i>)	BCC, Sharp Street Lobby	3 Nov., 5:45–7:30 p.m.
Planetary Geology		
Annual Banquet & G.K. Gilbert Awardee Celebration **Ticketed Event*	Phillips Seafood	3 Nov., 6:30–9:30 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Quaternary Geology and Geomorphology		
Awards Reception	BCC, Room 310	3 Nov., 7–11 p.m.
Board Meeting	BCC, Room 306	1 Nov., 7–9 p.m.
Geoheritage Matters Informal Discussion (Erika Vye, Benjamin van Wyk de Vries, and Tom Casadevall, Convening) (Cosponsored by <i>GSA Geology and Society Division</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Quaternary Geology and Geomorphology Division</i>)	Hilton, Poe B Room	2 Nov., 6:30–7:30 p.m.
Sedimentary Geology		
Seds & Suds Joint Business Meeting and Awards Reception with GSA Limnogeology Division (Cosponsored by <i>SEPM [Society for Sedimentary Geology]</i>)	BCC, Room 307	3 Nov., 6–8 p.m.
Officers Meeting	Hilton, Peale C Room	4 Nov., 8–10 a.m.
Structural Geology and Tectonics		
Management Board Meeting	Pratt Street Ale House	2 Nov., 11:30 a.m.–1:30 p.m.
35th Anniversary Symposium (individual sessions listed below)	BCC, Room 308	3 Nov., 1:30–9 p.m.
35th Anniversary Symposium: Tanya Atwater, UC Santa Barbara: Plate Tectonics: The Visualizers' and Map Lovers' Dreams Come True!	BCC, Room 308	3 Nov., 1:40–2:20 p.m.
35th Anniversary Symposium: Alexis Ault, Utah State University: Advances in Low Temperature Thermochronology and Applications to Structural Geology and Continental Tectonics	BCC, Room 308	3 Nov., 2:30–3 p.m.
35th Anniversary Symposium: Jack Loveless, Smith College: Earthquake Cycle Deformation of Japan through the Years, Decades, Centuries, and Beyond	BCC, Room 308	3 Nov., 3:30–4 p.m.
35th Anniversary Symposium: Overview of the NSF Tectonics Program: Opportunities for Students, Early-Career Scientists, and Senior Professionals	BCC, Room 308	3 Nov., 4:10–5:10 p.m.
35th Anniversary Symposium: Reception, Awards, and Business Meeting	BCC, Room 308	3 Nov., 5:30–9 p.m.
GSA INTERDISCIPLINARY INTEREST GROUPS (IIG)		
Soils and Soil Processes Business Meeting	Hilton, Ruth Room	2 Nov., noon–1:15 p.m.
GSA INTERNATIONAL		
International Business Meeting	Hilton, Peale C Room	1 Nov., 9–11:30 a.m.
International Reception: Bridging Continents, Exchanging Greetings and Building Partnerships (Cosponsored by <i>Geological Society of China</i>)	Hilton, Holiday Ballroom 4	2 Nov., 6:30–8:30 p.m.

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA ASSOCIATED SOCIETIES		
AASP - The Palynological Society		
Business Luncheon **Ticketed Event**	Hilton, Ruth Room	4 Nov., noon–2:30 p.m.
Short Course: Applied Biostratigraphy in Petroleum Exploration and Production	BCC, Room 302	31 Oct., 8:30 a.m.–5:30 p.m.
American Institute of Professional Geologists (AIPG)		
Best Student Geologic Map Competition (Cosponsored by U.S. Geological Survey National Cooperative Geologic Mapping Program; Geological Society of America; American Geosciences Institute; Geological Society of America Foundation; Association of American State Geologists; Journal of Maps; American Institute of Professional Geologists)	BCC, Exhibit Hall	3 Nov., 5–6:30 p.m.
Geoscience Careers Student Networking Luncheon (Cosponsored by American Geosciences Institute; Geological Society of America; Society of Economic Geologists; Society of Economic Geologists Foundation; American Institute of Professional Geologists)	BCC, Ballroom III	3 Nov., 11:30 a.m.–1 p.m.
Association for Women Geoscientists (AWG)		
Networking Breakfast & Awards Ceremony **Ticketed Event**	BCC, Ballroom III	2 Nov., 6:30–8:30 a.m.
Association of American State Geologists (AASG)		
Mid-Year Business Meeting	Hilton, Holiday Ballroom 2	3 Nov., 7 a.m.–noon
Best Student Geologic Map Competition (Cosponsored by U.S. Geological Survey National Cooperative Geologic Mapping Program; Geological Society of America; American Geosciences Institute; Geological Society of America Foundation; Association of American State Geologists; Journal of Maps; American Institute of Professional Geologists)	BCC, Exhibit Hall	3 Nov., 5–6:30 p.m.
Council on Undergraduate Research (CUR)		
Geosciences Division Business Meeting	Hilton, Poe Room	1 Nov., 3–5 p.m.
National Association of Geoscience Teachers (NAGT) and GSA Geoscience Education Division Awards Luncheon **Ticketed Event** (Cosponsored by Council on Undergraduate Research Geosciences Division)	Hilton, Holiday Ballroom 5	3 Nov., 11:30 a.m.–1 p.m.
Geoscience Educators' Reception (Cosponsored by GSA Geoscience Education Division; National Association of Geoscience Teachers; Cutting Edge; Council for Undergraduate Research; GSA Education Committee; American Geosciences Institute; IRIS; UNAVCO; InTeGrate)	BCC, Camden Lobby	1 Nov., 7–9 p.m.
Cushman Foundation (CF)		
Board Meeting	Hilton, Marshall Room	1 Nov., 11 a.m.–3:30 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Cushman Foundation for Foraminiferal Research Reception and Awards Ceremony	Hilton, Holiday Ballroom 6	3 Nov., 7–11 p.m.
Geochemical Society		
Joint Reception **Ticketed Event** (Cosponsored by GSA <i>Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America; Geochemical Society</i>)	BCC, Sharp Street Lobby	3 Nov., 5:45–7:30 p.m.
Geological Society of China		
Bridging Two Continents Luncheon with Featured Keynote, Dr. James Hansen **Ticketed Event** (Cosponsored by <i>Geological Society of America; Geological Society of China</i>)	BCC, Ballroom III	2 Nov., noon–1:30 p.m.
International Reception: Bridging Continents, Exchanging Greetings and Building Partnerships (Cosponsored by <i>Geological Society of China</i>)	Hilton, Holiday Ballroom 4	2 Nov., 6:30–8:30 p.m.
Geoscience Information Society (GSIS)		
Luncheon and Awards Ceremony ** Ticketed Event**	Hilton, Holiday Ballroom 2	2 Nov., noon–1:30 p.m.
Business Meeting	Hilton, Peale B Room	1 Nov., 9 a.m.–noon
Professional Issues Roundtable	Hilton, Peale B Room	2 Nov., 9–11:30 a.m.
Vendor Update/Information	Hilton, Peale B Room	2 Nov., 3–5 p.m.
International Association of Hydrogeologists (IAH)		
U.S. National Chapter Business Meeting	Hilton, Peale C Room	1 Nov., 5:15–6:45 p.m.
Mineralogical Society of America (MSA)		
Associated Editors Lunch	Hilton, Poe B Room	2 Nov., noon–2 p.m.
Awards Lecturers, Presidential Address, and Annual Business Meeting	BCC, Room 317	3 Nov., 3–5:30 p.m.
Awards Luncheon **Ticketed Event**	Hilton, Holiday Ballroom 4	3 Nov., 12:15–2:30 p.m.
Council Breakfast **By Invitation Only**	Hilton, Peale C Room	31 Oct., 7–8 a.m.
Council Lunch **By Invitation Only**	Hilton, Peale C Room	31 Oct., noon–1 p.m.
Council Meeting	Hilton, Peale B Room	31 Oct., 8 a.m.–5 p.m.
Executive Committee Meeting **By Invitation Only**	Hilton, Calloway B Room	30 Oct., 3–7 p.m.
Joint Reception **Ticketed Event** (Cosponsored by GSA <i>Mineralogy, Geochemistry, Petrology, and Volcanology Division; Mineralogical Society of America; Geochemical Society</i>)	BCC, Sharp Street Lobby	3 Nov., 5:45–7:30 p.m.
President's Breakfast	Hilton, Pickersgill Room	2 Nov., 7–9 a.m.
Students' Career Opportunities	Hilton, Holiday Ballroom 3	2 Nov., noon–2 p.m.
National Association of Geoscience Teachers (NAGT)		
Council Meeting **By Invitation Only**	Hilton, Johnson Room	1 Nov., 9:45–11:45 a.m.
Executive Committee Meeting **By Invitation Only**	Hilton, Johnson Room	1 Nov., 8:30–9:30 a.m.
GEO2YC: Two-Year College Division Meeting	Hilton, Johnson Room	1 Nov., 5–7 p.m.
Geoscience Education Research Division Meeting	Hilton, Ruth Room	1 Nov., 5–7 p.m.

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Joint Internship Meeting with USGS **By Invitation Only**	Hilton, Latrobe Room	1 Nov., 2–4 p.m.
<i>Journal of Geoscience Education</i> (JGE) Editorial Board Meeting **By Invitation Only**	Hilton, Calloway Room	2 Nov., 5:30–7 p.m.
National Association of Geoscience Teachers (NAGT) and GSA Geoscience Education Division Awards Luncheon **Ticketed Event** (Cosponsored by <i>Council on Undergraduate Research Geosciences Division</i>)	Hilton, Holiday Ballroom 5	3 Nov., 11:30 a.m.–1 p.m.
Next Generation Science Standards (NGSS) Implementation Town Hall Forum (Cosponsored by <i>National Association of Geoscience Teachers; American Geosciences Institute; GSA Geoscience Education Division; GSA Education Committee</i>)	BCC, Room 321	4 Nov., 12:15–1:15 p.m.
Past Presidents Breakfast **By Invitation Only**	Hilton, Peale A Room	2 Nov., 7:15–9:15 a.m.
Teacher Education Division Meeting	Hilton, Latrobe Room	1 Nov., 5–7 p.m.
InTeGrate Reception (Cosponsored by <i>National Association of Geoscience Teachers/Science Education Resource Center</i>)	Hilton, Poe A Room	3 Nov., 7–8:30 p.m.
Joint Meeting with National Association of Geoscience Teachers (NAGT)	Hilton, Peale C Room	3 Nov., 9–10:30 a.m.
Geoscience Educators' Reception (Cosponsored by <i>GSA Geoscience Education Division; National Association of Geoscience Teachers; Cutting Edge; Council for Undergraduate Research; GSA Education Committee; American Geosciences Institute; IRIS; UNAVCO; InTeGrate</i>)	BCC, Camden Lobby	1 Nov., 7–9 p.m.
National Cave and Karst Research Institute (NCKRI)		
Board of Directors Meeting	Hilton, Poe Room	4 Nov., noon–5 p.m.
Henry Darcy Distinguished Lecture (Cosponsored by <i>National Ground Water Association; GSA Hydrogeology Division</i>)	BCC, Ballroom IV	2 Nov., 5:30–6:30 p.m.
Paleontological Society (PS)		
Business Meeting and Reception Buffet **Ticketed Event**	BCC, Ballroom IV	1 Nov., 6:30–11 p.m.
Council Meeting	Hilton, Johnson Room	3 Nov., 9:30 a.m.–6:30 p.m.
Education and Outreach Committee	Hilton, Mencken Room	2 Nov., 7–9 p.m.
Mentors in Paleontology Careers Luncheon	Hilton, Key Ballroom 9/10	2 Nov., noon–1 p.m.
Paleontological Society Place	BCC, Room 313	1–4 Nov., 7:30 a.m.–6 p.m.
Short Course: Earth-Life Transitions	BCC, Room 310	31 Oct., 9 a.m.–5 p.m.
Schuchert Talk and Student Social	BCC, Room 310	2 Nov., 7–9 p.m.
Society for Sedimentary Geology (SEPM)		
Council Meeting	BCC, Room 303	31 Oct., 8 a.m.–5 p.m.
Student Field Trip: Geology and Paleontology of Calvert Cliffs (Chesapeake Group), Calvert County, Maryland	Off-Site Field Trip	1 Nov., 7 a.m.–8 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Seds & Suds Joint Business Meeting and Awards Reception with GSA's Sedimentary Geology and Limnogeology Divisions	BCC, Room 307	3 Nov., 6–8 p.m.
Society of Economic Geologists (SEG)		
Pre-Meeting Field Trip—logistics meeting for participants—The Historic Sykesville Ultramafic Rock-Associated, Fe-Cu-Co-Zn-Ni Mineral District: Drill Core and Mine Dump	Hilton, Ruth Room	30 Oct., noon–2 p.m.
Pre-Meeting Field Trip: The Historic Sykesville Ultramafic Rock-Associated, Fe-Cu-Co-Zn-Ni Mineral District: Drill Core and Mine Dump	Off-Site Field Trip	31 Oct., noon–6 p.m.
Post-Meeting Field Trip: Placer Deposits of the Atlantic Coastal Plain: Stratigraphy, Sedimentology, Mineral Resources, Mining and Reclamation	Off-Site Field Trip	5–6 Nov., 7 a.m.–8 p.m.
Geoscience Careers Student Networking Luncheon (Cosponsored by <i>American Geosciences Institute; Geological Society of America; Society of Economic Geologists; Society of Economic Geologists Foundation; American Institute of Professional Geologists</i>)	BCC, Ballroom III	3 Nov., 11:30 a.m.–1 p.m.
The International Association for Geoscience Diversity (IAGD)		
Annual Meeting	Hilton, Peale B Room	1 Nov., 3–5 p.m.
OTHER GROUPS' EVENTS		
American Geosciences Institute (AGI)		
Executive Committee Meeting	Hilton, Holiday Ballroom 5	1 Nov., 8 a.m.–noon
Friends of AGI Reception	Hilton, Holiday Ballroom 1	2 Nov., 5–7 p.m.
GeoRef Advisory Committee Meeting	Hilton, Mencken Room	31 Oct., 9 a.m.–6 p.m.
Joint AGI/GSA Societies Meeting	Hilton, Holiday Ballroom 4	2 Nov., 8 a.m.–noon
Joint Meeting with National Association of Geoscience Teachers (NAGT)	Hilton, Peale C Room	3 Nov., 9–10:30 a.m.
Past Presidents Reception and Dinner	Hilton, Holiday Ballroom 6	31 Oct., 6–9 p.m.
Student Geologic Mapping Mixer (Cosponsored by <i>American Geosciences Institute; U.S. Geological Survey</i>)	Pickles Pub	3 Nov., 7–10 p.m.
Next Generation Science Standards (NGSS) Implementation Town Hall Forum (Cosponsored by <i>National Association of Geoscience Teachers; American Geosciences Institute; GSA Geoscience Education Division; GSA Education Committee</i>)	BCC, Room 321	4 Nov., 12:15–1:15 p.m.
Geoscience Educators' Reception (Cosponsored by <i>GSA Geoscience Education Division; National Association of Geoscience Teachers; Cutting Edge; Council for Undergraduate Research; GSA Education Committee; American Geosciences Institute; IRIS; UNAVCO; InTeGrate</i>)	BCC, Camden Lobby	1 Nov., 7–9 p.m.
Geoscience Careers Student Networking Luncheon (Cosponsored by <i>American Geosciences Institute; Geological Society of America; Society of Economic Geologists; Society of Economic Geologists Foundation; American Institute of Professional Geologists</i>)	BCC, Ballroom III	3 Nov., 11:30 a.m.–1 p.m.

Alphabetical Listing of Events by Group or Organization

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Best Student Geologic Map Competition (Cosponsored by U.S. Geological Survey National Cooperative Geologic Mapping Program; Geological Society of America; American Geosciences Institute; Geological Society of America Foundation; Association of American State Geologists; Journal of Maps; American Institute of Professional Geologists)	BCC, Exhibit Hall	3 Nov., 5–6:30 p.m.
EarthCube C4P and iSamples Workshops (Cosponsored by C4P: Collaboration and Cyberinfrastructure for Paleogeosciences, NSF EarthCube; iSamples: The Internet of Samples in the Earth Sciences, NSF EarthCube; STEPPE)	Hilton, Holiday Ballroom 1	1 Nov., 1:30–5 p.m.
Friends of the Cambrian	Hilton, Poe A Room	2 Nov., 5:30–7:30 p.m.
Friends of the Cephalopods	Hilton, Johnson Room	3 Nov., 8–9:30 p.m.
Geoheritage Matters Informal Discussion (Erika Vye, Benjamin van Wyk de Vries and Tom Casadevall, Convening) (Cosponsored by GSA Geology and Society Division; GSA Geoscience Education Division; GSA Quaternary Geology and Geomorphology Division)	Hilton, Poe B Room	2 Nov., 6:30–7:30 p.m.
The Geoscience Paper of the Future: Learning Best Practices for Scholarly Publication (Cosponsored by EarthCube Program; National Science Foundation)	Hilton, Peale A Room	2 Nov., 2:45–5:45 p.m.
GeoScienceWorld (GSW)		
Advisory Council Meeting **Invitation Only**	Hilton, Peale A/B Room	4 Nov., 12:30–6:30 p.m.
Board of Directors Meeting **Invitation Only**	Hilton, Calloway Room	4 Nov., 8 a.m.–noon; 5 Nov., 8 a.m.–5 p.m.
InTeGrate		
InTeGrate Reception (Cosponsored by National Association of Geoscience Teachers/Science Education Resource Center)	Hilton, Poe A Room	3 Nov., 7–8:30 p.m.
Geoscience Educators' Reception (Cosponsored by GSA Geoscience Education Division; National Association of Geoscience Teachers; Cutting Edge; Council for Undergraduate Research; GSA Education Committee; American Geosciences Institute; IRIS; UNAVCO; InTeGrate)	BCC, Camden Lobby	1 Nov., 7–9 p.m.
Keck Geology Consortium Reps Meeting	Hilton, Peale C Room	31 Oct., 7–10 p.m.
LGBT Social	City Cafe	3 Nov., 7–11 p.m.

EVENT	LOCATION/ROOM	DATE/TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Micropaleontology Press Foundation Board Meeting	Hilton, Mencken Room	1 Nov., 10 a.m.–noon
National Science Foundation (NSF)		
EarthCube C4P and iSamples Workshops (Cosponsored by <i>C4P: Collaboration and Cyberinfrastructure for Paleogeosciences, NSF EarthCube; iSamples: The Internet of Samples in the Earth Sciences, NSF EarthCube; STEPPE</i>)	Hilton, Holiday Ballroom 1	1 Nov., 1:30–5 p.m.
The Geoscience Paper of the Future: Learning Best Practices for Scholarly Publication (Cosponsored by <i>EarthCube Program; National Science Foundation</i>)	Hilton, Peale A Room	2 Nov., 2:45–5:45 p.m.
We Need to Talk: How Do Communities Adopt Cyberinfrastructure Standards and Best Practices? (Cosponsored by <i>National Science Foundation</i>)	BCC, Room 338	2 Nov., 12:15–1:15 p.m.
North American Commission on Stratigraphic Nomenclature (NACSN) Annual Meeting	Hilton, Latrobe Room	2 Nov., 1–5 p.m.
STEPPE		
Board of Directors Meeting	Hilton, Peale C Room	4 Nov., noon–2 p.m.
EarthCube C4P and iSamples Workshops (Cosponsored by <i>C4P: Collaboration and Cyberinfrastructure for Paleogeosciences, NSF EarthCube; iSamples: The Internet of Samples in the Earth Sciences, NSF EarthCube; STEPPE</i>)	Hilton, Holiday Ballroom 1	1 Nov., 1:30–5 p.m.
Town Hall Events		
Future of Undergraduate Geoscience Education Town Hall	BCC, Room 336	3 Nov., 5:30–6:45 p.m.
Next Generation Science Standards (NGSS) Implementation Town Hall Forum (Cosponsored by <i>National Association of Geoscience Teachers; American Geosciences Institute; GSA Geoscience Education Division; GSA Education Committee</i>)	BCC, Room 321	4 Nov., 12:15–1:15 p.m.
NSF Future Directions in Tectonics Town Hall Meeting	Hilton, Holiday Ballroom 3	2 Nov., 4–6 p.m.
We Need to Talk: How Do Communities Adopt Cyberinfrastructure Standards and Best Practices? (Cosponsored by <i>National Science Foundation</i>)	BCC, Room 338	2 Nov., 12:15–1:15 p.m.
U.S. Geological Survey (USGS)		
Joint Internship Meeting with USGS **By Invitation Only**	Hilton, Latrobe Room	1 Nov., 2–4 p.m.
Student Geologic Mapping Mixer (Cosponsored by <i>American Geosciences Institute; U.S. Geological Survey</i>)	Pickles Pub	3 Nov., 7–10 p.m.
Best Student Geologic Map Competition (Cosponsored by <i>U.S. Geological Survey National Cooperative Geologic Mapping Program; Geological Society of America; American Geosciences Institute; Geological Society of America Foundation; Association of American State Geologists; Journal of Maps; American Institute of Professional Geologists</i>)	BCC, Exhibit Hall	3 Nov., 5–6:30 p.m.

Chronological Listing of Events

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
FRIDAY, 30 OCTOBER		
Society of Economic Geologists (SEG) Pre-Meeting Field Trip—logistical meeting for participants—The Historic Sykesville Ultramafic Rock-Associated, Fe-Cu-Co-Zn-Ni Mineral District: Drill Core and Mine Dump	Hilton, Ruth Room	noon–2 p.m.
GSA Audit Committee Meeting	Hilton, Poe A Room	noon–4 p.m.
Mineralogical Society of America (MSA) Executive Committee Meeting **Invitation Only**	Hilton, Calloway B Room	3–7 p.m.
SATURDAY, 31 OCTOBER		
Mineralogical Society of America (MSA) Council Breakfast **Invitation Only**	Hilton, Peale C Room	7–8 a.m.
GSA Science Communications Workshop: Be Heard & Be Interesting	BCC, Room 312	8 a.m.–noon
GSA Council Meeting, Day 1	Hilton, Holiday Ballroom 4	8 a.m.–noon
Mineralogical Society of America (MSA) Council Meeting	Hilton, Peale B Room	8 a.m.–5 p.m.
Society for Sedimentary Geology (SEPM) Council Meeting	BCC, Room 303	8 a.m.–5 p.m.
GSA Foundation Board of Trustees Meeting	Hilton, Holiday Ballroom 5	8 a.m.–5:30 p.m.
AASP - The Palynological Society Short Course: Applied Biostratigraphy in Petroleum Exploration and Production	BCC, Room 302	8:30 a.m.–5:30 p.m.
Paleontological Society (PS) Short Course: Earth-Life Transitions	BCC, Room 310	9 a.m.–5 p.m.
American Geosciences Institute (AGI) GeoRef Advisory Committee Meeting	Hilton, Mencken Room	9 a.m.–6 p.m.
GSA Science Editor Summit	Hilton, Poe Room	10 a.m.–noon
GSA Geology and Public Policy Committee Meeting	Hilton, Latrobe Room	11:30 a.m.–4 p.m.
Mineralogical Society of America (MSA) Council Lunch **Invitation Only**	Hilton, Peale C Room	noon–1 p.m.
GSA Publications Committee Meeting	Hilton, Poe Room	noon–5:30 p.m.
Society of Economic Geologists (SEG) Pre-Meeting Field Trip: The Historic Sykesville Ultramafic Rock-Associated, Fe-Cu-Co-Zn-Ni Mineral District: Drill Core and Mine Dump	Off-Site Field Trip	noon–6 p.m.
GSA GeoCareers in Industry Pathways to a Successful Career: Building Value Workshop	Hilton, Holiday Ballroom 6	1–4 p.m.
GSA Division Chairs Business Meeting	Hilton, Holiday Ballroom 4	1–5 p.m.
GSA Session Chair Orientation	BCC, Room 336	3:30–4 p.m.
GSA Student Volunteer Technical Program Orientation	BCC, Room 336	3:30–4 p.m.
GSA First-Time Attendee Orientation	BCC, Room 345/346	4–4:45 p.m.
GSA On To the Future Welcome Gathering	BCC, Camden Lobby	4:45–5:45 p.m.
GSA Baltimore Icebreaker (Cosponsored by <i>Towson University</i>)	BCC, Ballroom III & IV	5–7 p.m.
American Geosciences Institute (AGI) Past Presidents Reception and Dinner	Hilton, Holiday Ballroom 6	6–9 p.m.
Keck Geology Consortium Reps Meeting	Hilton, Peale C Room	7–10 p.m.

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
SUNDAY, 1 NOVEMBER		
GSA History and Philosophy of Geology Division Management Board Meeting	Hilton, Calloway Room	6:30–9 a.m.
SEPM (Society for Sedimentary Geology) Student Field Trip: Geology and Paleontology of Calvert Cliffs (Chesapeake Group), Calvert County, Maryland	Off-Site Field Trip	7 a.m.–8 p.m.
Paleontological Society (PS) Place	BCC, Room 313	7:30 a.m.–6 p.m.
American Geosciences Institute (AGI) Executive Committee Meeting	Hilton, Holiday Ballroom 5	8 a.m.–noon
GSA Geology and Public Policy Committee Meeting	Hilton, Latrobe Room	8 a.m.–noon
National Association of Geoscience Teachers (NAGT) Executive Committee Meeting **Invitation Only**	Hilton, Johnson Room	8:30–9:30 a.m.
GSA GeoCareers in Industry: Research Poster Session	BCC, Exhibit Hall	9–11 a.m.
GSA International Business Meeting	Hilton, Peale C Room	9–11:30 a.m.
Geoscience Information Society (GSIS) Business Meeting	Hilton, Peale B Room	9 a.m.–noon
GSA GeoCareers Résumé Clinic	BCC, Exhibit Hall	9 a.m.–5 p.m.
Local Tour 101: Baltimore Art Museums with City Tour	BCC, Pratt Street Lobby	9:30 a.m.–2:30 p.m.
National Association of Geoscience Teachers (NAGT) Council Meeting **Invitation Only**	Hilton, Johnson Room	9:45–11:45 a.m.
Micropaleontology Press Foundation Board	Hilton, Mencken Room	10 a.m.–noon
GSA President's Brunch **Invitation Only**	Hilton, Poe Room	10:45–11:45 a.m.
GSA Hydrogeology Division Management Board Meeting I	Hilton, Peale A Room	11 a.m.–1 p.m.
Cushman Foundation Board Meeting	Hilton, Marshall Room	11 a.m.–3:30 p.m.
GSA Geology in Industry Career Pathways Luncheon	BCC, Ballroom IV	11:30 a.m.–1 p.m.
GSA's What's Your Problem, What's Your Point Workshop	BCC, Room 304	11:30 a.m.–2 p.m.
GSA Presidential Address and Awards Ceremony	BCC, Room 327/328/329	noon–1:30 p.m.
GSA Session Chair Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Student Volunteer Technical Program Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV) Division Business Meeting	BCC, Room 319/320	12:45–1:15 p.m.
GSA Foundation Development Committee Meeting	Hilton, Peale C Room	1–3 p.m.
GSA Environmental and Engineering Geology Division Business Meeting	Hilton, Calloway Room	1–5 p.m.
GSA GeoCareers in Industry: Company Info Session	BCC, Exhibit Hall	1:30–4 p.m.
GSA GeoCareers in Industry: Company Presentations	BCC, Exhibit Hall	1:30–4 p.m.
EarthCube C4P and iSamples Workshops (Cosponsored by C4P: Collaboration and Cyberinfrastructure for Paleogeosciences, NSF EarthCube; iSamples: The Internet of Samples in the Earth Sciences, NSF EarthCube; STEPPE)	Hilton, Holiday Ballroom 1	1:30–5 p.m.
National Association of Geoscience Teachers (NAGT) and USGS Internship Meeting **Invitation Only**	Hilton, Latrobe Room	2–4 p.m.
GSA Education Committee Business Meeting	Hilton, Peale A Room	2–4 p.m.
Council on Undergraduate Research Geosciences Division Business Meeting	Hilton, Poe Room	3–5 p.m.
The International Association for Geoscience Diversity (IAGD) Annual Meeting	Hilton, Peale B Room	3–5 p.m.

Chronological Listing of Events

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA Geology and Society Division Distinguished Lecture by Simon Winchester: "William Smith: The Man, His Map, and the Democratization of Geology"	BCC, Room 327/328/329	4–5 p.m.
GSA GeoCareers in Industry: Evening Reception **Invitation Only**	BCC, Camden Lobby	4:30–5:30 p.m.
GSA Women in Geology Career Pathways Reception	BCC, Ballroom III	5–6:30 p.m.
National Association of Geoscience Teachers (NAGT) GEO2YC: Two-Year College Division Meeting	Hilton, Johnson Room	5–7 p.m.
National Association of Geoscience Teachers (NAGT) Geoscience Education Research Division Meeting	Hilton, Ruth Room	5–7 p.m.
National Association of Geoscience Teachers (NAGT) Teacher Education Division Meeting	Hilton, Latrobe Room	5–7 p.m.
International Association of Hydrogeologists (IAH) U.S. National Chapter Business Meeting	Hilton, Peale C Room	5:15–6:45 p.m.
GSA Exhibit Opening Reception	BCC, Exhibit Hall	5:30–7 p.m.
Simon Winchester Book Signing (Cosponsored by <i>GSA Geology & Society Division</i>)	BCC, Exhibit Hall, GSA HQ Booth	5:45–7 p.m.
GSA President's Reception **Invitation Only**	Hilton, Holiday Ballroom 6	6:30–7:45 p.m.
GSA Archaeological Geology Division Executive Committee Meeting	Off-Site Location TBD	6:30–8 p.m.
Paleontological Society Business Meeting and Reception Buffet **Ticketed Event**	BCC, Ballroom IV	6:30–11 p.m.
Geoscience Educators' Reception (Cosponsored by <i>GSA Geoscience Education Division; National Association of Geoscience Teachers; Cutting Edge; Council for Undergraduate Research; GSA Education Committee; American Geosciences Institute; IRIS; UNAVCO; InTeGrate</i>)	BCC, Camden Lobby	7–9 p.m.
GSA Geology and Society Division Rocks and Hops Soiree (Cosponsored by <i>GSA Geology and Public Policy Committee</i>)	Pratt Street Ale House	7–9 p.m.
GSA Quaternary Geology and Geomorphology Division Board Meeting	BCC, Room 306	7–9 p.m.
MONDAY, 2 NOVEMBER		
Association for Women Geoscientists (AWG) Networking Breakfast & Awards Ceremony **Ticketed Event**	BCC, Ballroom III	6:30–8:30 a.m.
Mineralogical Society of America (MSA) President's Breakfast	Hilton, Pickersgill Room	7–9 a.m.
National Association of Geoscience Teachers (NAGT) Past Presidents Breakfast **Invitation Only**	Hilton, Peale A Room	7:15–9:15 a.m.
GSA On To the Future Gathering	BCC, Camden Lobby	7:30–8 a.m.
Paleontological Society Place	BCC, Room 313	7:30 a.m.–6 p.m.
Joint AGI/GSA Societies Meeting	Hilton, Holiday Ballroom 4	8 a.m.–noon
GSA Professional Development Committee Meeting	Hilton, Mencken Room	8:30–9:30 a.m.
Local Tour 102: Baltimore's Historic Churches	BCC, Pratt Street Lobby	8:30 a.m.–12:30 p.m.
Geoscience Information Society (GSIS) Professional Issues Roundtable	Hilton, Peale B Room	9–11:30 a.m.

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA GeoCareers Interview Service (formerly the Employment Service Center)	BCC, Exhibit Hall	9 a.m.–6 p.m.
Guest Seminar: The Art of Crab Cracking	BCC, Pratt Street Lobby	10–11 a.m.
GSA Geology in Government Career Pathways Luncheon	BCC, Ballroom IV	11:30 a.m.–1 p.m.
GSA Structural Geology and Tectonics Division Management Board Meeting	Pratt Street Ale House	11:30 a.m.–1:30 p.m.
GSA Geology and Society Division Management Board Meeting	Hilton, Peale C Room	11:30 a.m.–1:30 p.m.
Paleontological Society Mentors in Paleontology Careers Luncheon	Hilton, Key Ballroom 9–10	noon–1 p.m.
GSA Geology and Health Division Business Meeting	BCC, Room 325/326	noon–1 p.m.
GSA Soils and Soil Processes Interdisciplinary Interest Group Business Meeting	Hilton, Ruth Room	noon–1:15 p.m.
Bridging Two Continents Luncheon with Featured Keynote Speaker Dr. James Hansen **Ticketed Event** (Cosponsored by <i>Geological Society of America</i> ; <i>Geological Society of China</i>)	BCC, Ballroom III	noon–1:30 p.m.
Geoscience Information Society (GSIS) Luncheon and Awards Ceremony **Ticketed Event**	Hilton, Holiday Ballroom 2	noon–1:30 p.m.
GSA Geobiology and Geomicrobiology Division Luncheon	Hilton, Calloway Room	noon–1:30 p.m.
GSA Student Advisory Council Meeting	Hilton, Johnson Room	noon–1:30 p.m.
Mineralogical Society of America (MSA) Associated Editors Lunch	Hilton, Poe B Room	noon–2 p.m.
Mineralogical Society of America (MSA) Student's Career Opportunities	Hilton, Holiday Ballroom 3	noon–2 p.m.
GSA Session Chair Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Student Volunteer Technical Program Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Feed Your Brain: James Balog, "The Art & Science of Chasing Ice"	BCC, Room 327/328/329	12:15–1:15 p.m.
We Need to Talk: How Do Communities Adopt Cyberinfrastructure Standards and Best Practices? (Cosponsored by <i>National Science Foundation</i>)	BCC, Room 338	12:15–1:15 p.m.
GSA Diversity in the Geosciences Committee Meeting	Hilton, Holiday Ballroom 5	1–4 p.m.
Local Tour 103: Foodie Tour of Little Italy	BCC, Pratt Street Lobby	1–4 p.m.
NACSN (North American Commission on Stratigraphic Nomenclature) Annual Meeting	Hilton, Latrobe Room	1–5 p.m.
Diversity in the Geosciences Task Force Meeting	Hilton, Holiday Ballroom 5	2–4 p.m.
The Geoscience Paper of the Future: Learning Best Practices for Scholarly Publication (Cosponsored by <i>EarthCube Program</i> ; <i>National Science Foundation</i>)	Hilton, Peale A Room	2:45–5:45 p.m.
Geoscience Information Society (GSIS) Vendor Update/Information	Hilton, Peale B Room	3–5 p.m.
GSA and ExxonMobil Student Research Grant Award Poster Session	BCC, Sharp Street Lobby	4–5 p.m.
NSF Future Directions in Tectonics Town Hall Meeting	Hilton, Holiday Ballroom 3	4–6 p.m.
GSA Afternoon Beer Reception	BCC, Exhibits Hall	4:30–6:30 p.m.
GSA GeoCorps™ America and Mosaics in Science Reception for Alumni and Partners	Pratt Street Ale House	4:30–6:30 p.m.

Chronological Listing of Events

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA Academic and Applied Geoscience Relations Committee Meeting	Hilton, Mencken Room	5–6 p.m.
Friends of the American Geosciences Institute (AGI) Reception	Hilton, Holiday Ballroom 1	5–7 p.m.
Henry Darcy Distinguished Lecture (Cosponsored by <i>National Ground Water Association</i> ; <i>GSA Hydrogeology Division</i>)	BCC, Ballroom IV	5:30–6:30 p.m.
National Association of Geoscience Teachers (NAGT) <i>Journal of Geoscience Education</i> (JGE) Editorial Board Meeting **Invitation Only**	Hilton, Calloway Room	5:30–7 p.m.
Friends of the Cambrian	Hilton, Poe A Room	5:30–7:30 p.m.
GSA Foundation Senior Fellows and Friends Reception **Invitation Only**	Hilton, Holiday Ballroom 6	5:30–7:30 p.m.
GSA Geophysics Division Business Meeting and Social	BCC, Room 340	5:45–7 p.m.
GSA Archaeological Geology Division Business Meeting and Awards Ceremony	BCC, Room 318	5:45–8 p.m.
GSA Congressional and Science Policy Fellowships Information & Reception	BCC, Room 305	6–7:30 p.m.
Geoheritage Matters Informal Discussion (Erika Vye, Benjamin van Wyk de Vries, and Tom Casadevall, Convening) (Cosponsored by <i>GSA Geology and Society Division</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Quaternary Geology and Geomorphology Division</i>)	Hilton, Poe B Room	6:30–7:30 p.m.
GSA International Reception: Bridging Continents, Exchanging Greetings, and Building Partnerships (Cosponsored by <i>Geological Society of China</i>)	Hilton, Holiday Ballroom 4	6:30–8:30 p.m.
Paleontological Society's Schuchert Talk and Student Social	BCC, Room 310	7–9 p.m.
Paleontological Society Education and Outreach Committee	Hilton, Mencken Room	7–9 p.m.
TUESDAY, 3 NOVEMBER		
GSA Leadership Training	Hilton, Johnson Room	7–8:30 a.m.
GSA Campus Representatives Appreciation Breakfast **Invitation Only**	BCC, 302/303	7–8:30 a.m.
Association of American State Geologists (AASG) Mid-Year Business Meeting	Hilton, Holiday Ballroom 2	7 a.m.–noon
GSA On To the Future Gathering	BCC, Camden Lobby	7:30–8 a.m.
Paleontological Society Place	BCC, Room 313	7:30 a.m.–6 p.m.
GSA Geoscience Education Division Management Board Meeting	Hilton, Ruth Room	8–10 a.m.
Local Tour 104: Whirlwind Tour of Washington D.C.	BCC, Pratt Street Lobby	8:30 a.m.–3:30 p.m.
American Geosciences Institute (AGI) and National Association of Geoscience Teachers (NAGT) Meeting	Hilton, Peale C Room	9–10:30 a.m.
James Balog Book Signing	BCC, Exhibit Hall, GSA Bookstore	9–10:30 a.m.
GSA GeoCareers Interview Service (formerly the Employment Service Center)	BCC, Exhibit Hall	9 a.m.–1 p.m.
Paleontological Society Council Meeting	Hilton, Johnson Room	9:30 a.m.–6:30 p.m.

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA Geoscience Education Division Open Business Meeting	Hilton, Ruth Room	10 a.m.–noon
National Association of Geoscience Teachers (NAGT) and GSA Geoscience Education Division Awards Luncheon **Ticketed Event** (Cosponsored by <i>Council on Undergraduate Research Geosciences Division</i>)	Hilton, Holiday Ballroom 5	11:30 a.m.–1 p.m.
Geoscience Careers Student Networking Luncheon (Cosponsored by <i>American Geosciences Institute; Geological Society of America; Society of Economic Geologists; Society of Economic Geologists Foundation; American Institute of Professional Geologists</i>)	BCC, Ballroom III	11:30 a.m.–1 p.m.
GSA Journals Editorial Meeting	BCC, Room 303	11:30 a.m.–1:30 p.m.
GSA Hydrogeology Division Luncheon, Awards & Business Meeting **Ticketed Event**	BCC, Ballroom IV	11:30 a.m.–3:30 p.m.
GSA Student Research Grant Writing Workshop	BCC, Room 338	noon–1 p.m.
GSA History and Philosophy of Geology Division Luncheon, Business Meeting & Awards Ceremony **Ticketed Event**	Hilton, Holiday Ballroom 1	noon–2 p.m.
GSA Session Chair Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Student Volunteer Technical Program Orientation	BCC, Room 336	12:15–12:45 p.m.
GSA Feed Your Brain: Marcia McNutt, GSA Halbouty Lecturer & Geology and Society Division Distinguished Lecturer, “Deepwater Horizons: Lessons Learned for Better Disaster Preparedness”	BCC, Room 327/328/329	12:15–1:15 p.m.
Mineralogical Society of America (MSA) Awards Luncheon **Ticketed Event**	Hilton, Holiday Ballroom 4	12:15–2:30 p.m.
Local Tour 105: Baltimore Architecturally Speaking	BCC, Pratt Street Lobby	1–5 p.m.
GSA Structural Geology and Tectonics Division (35th Anniversary Symposium): Tanya Atwater, UC Santa Barbara: Plate Tectonics: The Visualizers’ and Map Lovers’ Dreams Come True!	BCC, Room 308	1:40–2:20 p.m.
GSA Structural Geology and Tectonics Division 35th Anniversary Symposium (individual sessions listed separately)	BCC, Room 308	1:30–9 p.m.
Special Lecture: John P. Holdren, White House OSTP Director	BCC, Room 309	2–3 p.m.
GSA Local Section Meeting Chairs Round Table Meeting	BCC, Room 302	2–3:30 p.m.
GSA Structural Geology and Tectonics Division (35th Anniversary Symposium): Alexis Ault, Utah State University: Advances in Low-Temperature Thermochronology and Applications to Structural Geology and Continental Tectonics	BCC, Room 308	2:30–3 p.m.
Mineralogical Society of America (MSA) Awards Lecturers, Presidential Address, and Annual Business Meeting	BCC, Room 317	3–5:30 p.m.
GSA Structural Geology and Tectonics Division (35th Anniversary Symposium): Jack Loveless, Smith College: Earthquake Cycle Deformation of Japan through the Years, Decades, Centuries, and Beyond	BCC, Room 308	3:30–4 p.m.
GSA Structural Geology and Tectonics Division (35th Anniversary Symposium): Overview of the NSF Tectonics Program: Opportunities for Students, Early-Career Scientists, and Senior Professionals	BCC, Room 308	4:10–5:10 p.m.
GSA Hydrogeology Division Birdsall-Dreiss Distinguished Lecture	BCC, Ballroom IV	4:30–5:30 p.m.
GSA Afternoon Beer Reception	BCC, Exhibits Hall	4:30–6:30 p.m.

Chronological Listing of Events

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
Best Student Geologic Map Competition (Cosponsored by <i>U.S. Geological Survey National Cooperative Geologic Mapping Program</i> ; <i>Geological Society of America</i> ; <i>American Geosciences Institute</i> ; <i>Geological Society of America Foundation</i> ; <i>Association of American State Geologists</i> ; <i>Journal of Maps</i> ; <i>American Institute of Professional Geologist</i>)	BCC, Exhibits Hall	5–6:30 p.m.
GSA Geology and Society Division Annual Meeting of the Membership	BCC, Room 327/328/329	5:30–6:30 p.m.
GSA Geoinformatics Division Business Meeting	Hilton, Calloway Room	5:30–6:30 p.m.
Future of Undergraduate Geoscience Education Town Hall	BCC, Room 336	5:30–6:45 p.m.
GSA Karst Division Business Meeting	BCC, Room 340	5:30–7 p.m.
GSA Diversity in the Geosciences and On To the Future Alumni Reception	BCC, Camden Lobby	5:30–7 p.m.
GSA History and Philosophy of Geology Division with Prizes, Wine, Beer, and Snacks	Hilton, Peale A Room	5:30–7:30 p.m.
GSA Hydrogeology Division Student Reception	BCC, Ballroom IV	5:30–8 p.m.
GSA Structural Geology and Tectonics Division (35th Anniversary Symposium): Reception, Awards, and Business Meeting	BCC, Room 308	5:30–9 p.m.
GSA Open Forum: Harnessing Technology to Communicate Science (Cosponsored by <i>Geosphere</i>)	BCC, Room 302	5:45–7 p.m.
MGPV–MSA–GS Joint Reception **Ticketed Event** (Cosponsored by <i>GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division</i> ; <i>Mineralogical Society of America</i> ; <i>Geochemical Society</i>)	BCC, Sharp Street Lobby	5:45–7:30 p.m.
NOVA Special: <i>Making North America</i> , Episode 1, “Origins,” followed by Q&A by Kirk Johnson, Paula Apsell, and Julia Cort (Cosponsored by NOVA)	BCC, Ballroom III	5:45–7:30 p.m.
GSA Energy Geology Division Business Meeting and Awards Reception	BCC, Room 321	5:45–7:45 p.m.
GSA Joint Sedimentary Geology and Limnogeology Division Business Meeting and Awards Reception (Cosponsored by <i>Society for Sedimentary Geology</i>)	BCC, Room 307	6–8 p.m.
GSA Environmental and Engineering Geology Division Dinner & Awards Ceremony **Ticketed Event**	Pratt Street Ale House	6–11 p.m.
GSA Geoinformatics Division Reception	Hilton, Poe B Room	6:30–7:30 p.m.
GSA Planetary Geology Division Annual Banquet & G.K. Gilbert Awardee Celebration **Ticketed Event**	Phillips Seafood	6:30–9:30 p.m.
InTeGrate Reception (Cosponsored by <i>National Association of Geoscience Teachers Science Education Resource Center</i>)	Hilton, Poe A Room	7–8:30 p.m.
Student Geologic Mapping Mixer (Cosponsored by <i>American Geosciences Institute</i> ; <i>U.S. Geological Survey</i>)	Pickles Pub	7–10 p.m.
Cushman Foundation for Foraminiferal Research Reception and Awards Ceremony	Hilton, Holiday Ballroom 6	7–11 p.m.
LGBT Social	City Cafe	7–11 p.m.

EVENT	LOCATION/ROOM	TIME
BCC—Baltimore Convention Center; Hilton—Hilton Baltimore		
GSA Quaternary Geology and Geomorphology Division Awards Reception	BCC, Room 310	7–11 p.m.
Friends of the Cephalopods	Hilton, Johnson Room	8–9:30 p.m.
WEDNESDAY, 4 NOVEMBER		
GSA Hydrogeology Division Management Board Meeting II	Hilton, Poe Room	7–9 a.m.
GSA On To the Future Gathering	BCC, Camden Lobby	7:30–8 a.m.
Paleontological Society Place	BCC, Room 313	7:30 a.m.–6 p.m.
GSA Sedimentary Geology Division Officers Meeting	Hilton, Peale C Room	8–10 a.m.
GeoScienceWorld (GSW) Board of Directors Meeting **Invitation Only**	Hilton, Calloway Room	8 a.m.–noon
GSA Council Meeting, Day 2	Hilton, Johnson Room	8 a.m.–noon
Local Tour 106: Star Spangled Baltimore	BCC, Pratt Street Lobby	8:30 a.m.–3:30 p.m.
Local Tour 107: Jewel of the Chesapeake	BCC, Pratt Street Lobby	8:30 a.m.–3:30 p.m.
Guest Seminar: The Life & Writings of Edgar Allan Poe	BCC, Pratt Street Lobby	10–11 a.m.
STEPPE Board of Directors Meeting	Hilton, Peale C Room	noon–2 p.m.
AASP - The Palynological Society Business Luncheon **Ticketed Event**	Hilton, Ruth Room	noon–2:30 p.m.
National Cave and Karst Research Institute (NCKRI) Board of Directors Meeting	Hilton, Poe Room	noon–5 p.m.
Next Generation Science Standards (NGSS) Implementation Town Hall Forum (Cosponsored by <i>National Association of Geoscience Teachers</i> ; <i>American Geosciences Institute</i> ; <i>GSA Geoscience Education Division</i> ; <i>GSA Education Committee</i>)	BCC, Room 321	12:15–1:15 p.m.
GSA Feed Your Brain: Ellen Stofan, “Science at NASA: Exploring Planets in this Solar System and Beyond”	BCC, Room 327/328/329	12:15–1:15 p.m.
GeoScienceWorld (GSW) Advisory Council Meeting **Invitation Only**	Hilton, Peale A/B Room	12:30–6:30 p.m.
GSA Afternoon Beer Reception	BCC, Exhibits Hall	4:30–6:30 p.m.
THURSDAY, 5 NOVEMBER		
GSA Post-Meeting Field Trip—logistical meeting for participants—427. Experience Capitol Hill: Geoscience and Public Policy in Washington D.C. (Cosponsored by <i>GSA Geology and Public Policy Committee</i>)	Hilton, Room TBD	7–7:30 a.m.
Society of Economic Geologists (SEG) Post-Meeting Field Trip: Placer Deposits of the Atlantic Coastal Plain: Stratigraphy, Sedimentology, Mineral Resources, Mining and Reclamation	Off-Site Field Trip (Day 1 of 2)	7 a.m.–8 p.m.
GeoScienceWorld (GSW) Board of Directors Meeting **Invitation Only**	Hilton, Calloway Room	8 a.m.–5 p.m.
FRIDAY, 6 NOVEMBER		
Society of Economic Geologists (SEG) Post-Meeting Field Trip: Placer Deposits of the Atlantic Coastal Plain: Stratigraphy, Sedimentology, Mineral Resources, Mining, and Reclamation	Off-Site Field Trip (Day 2 of 2)	7 a.m.–8 p.m.

Exhibitor Descriptions & Booth Numbers

(in alphabetical order, as of press time)



EXHIBIT HALL HOURS

Sunday: Exhibits open: 2–7 p.m.;

Exhibits Opening Reception: 5:30–7 p.m.

Monday & Tuesday: 9 a.m.–6:30 p.m.

Wednesday: 9 a.m.–2 p.m.

AASP, The Palynological Society—Booth 1045

Morehead State University, Morehead, Kentucky 40351, USA; phone: +1-606-776-1970; fax: +1-606-783-5002; email: palynologylexington@gmail.com; website: www.palynology.org. Promoting the scientific understanding of palynology since 1967.

American Association of Petroleum Geologists (AAPG) / AAPG Bookstore—Booth 547

1444 S Boulder Ave., Tulsa, Oklahoma 74119, USA; phone: +1-918-584-2555; fax: +1-918-560-2632; email: kjodoin@aapg.org; website: www.aapg.org. Founded in 1917, the American Association of Petroleum Geologists' purpose is to foster scientific research, advance the science of geology, promote technology, and inspire high professional conduct. AAPG provides publications, conferences, and educational opportunities to geoscientists and disseminates the most current geological information available to the public.

American Geophysical Union (AGU)—Booth 917

2000 Florida Ave. NW, Washington D.C. 20009; phone: +1-202-462-6900; email: abonselli@agu.org; website: www.agu.org.

American Geosciences Institute—Booth 957

4220 King Street, Alexandria, Virginia 22302, USA; phone: +1-703-379-2480; fax: +1-703-379-7563; email: outreach@americangeosciences.org; website: www.americangeosciences.org. AGI connects Earth, science, and people by serving as a unifying force for the geoscience community. With a network of 50 member societies, AGI represents more than a quarter-million geoscientists. No matter your individual discipline, AGI's essential programs and services will strengthen your connection to the geosciences.

American Institute of Professional Geologists (AIPG)—Booth 853

12000 Washington Street, Suite 285, Thornton, Colorado 80241, USA; phone: +1-303-412-6205; fax: +1-303-253-9220; email: vlh@aipg.org; website: www.aipg.org. The American Institute of Professional Geologists (AIPG) is the largest association dedicated to promoting geology as a profession. AIPG emphasizes competence, integrity, and ethics. AIPG is an advocate for the profession and communicates regularly to federal and state legislators and agencies on matters pertaining to the geosciences.

American Meteorological Society—Booth 947

1200 New York Ave. NW, Suite 500, Washington D.C. 20005; phone: +1-202-737-1043; fax: +1-202-737-0445; email: dcmeetings@ametsoc.org; website: www.ametsoc.org/amsedu. Introduce geoscience in real time with AMS Climate Studies, AMS Ocean Studies, and AMS Weather Studies. The courses are available for local offering and can be adaptable to traditional lecture/laboratory, hybrid, and online instruction at the introductory college level. We package complete courses, which mean less work for you!

American Museum of Natural History Master of Arts in Teaching Program—Booth 235

Central Park West at 79th, New York, New York 10024, USA; phone: +1-212-313-7464; email: jrasmussen@amnh.org; website: www.amnh.org/mat. Calling all enthusiastic Earth science grads: Learn to teach Earth and space science in New York City through the Master of Arts in Teaching Urban Residency Program at the American Museum of Natural History, the first urban teacher residency program offered by a museum. This 15-month master's program is fully funded, including a US\$30,000 living stipend.

American Quaternary Association—Booth 552

52801 E. 55th Road, Meramec, Oklahoma 74045, USA; phone: +1-405-744-9585; email: treasurer@amqua.org; website: www.amqua.org.

Armfield Inc.—Booth 562

9 Trenton Lakewood Road, Clarksburg, New Jersey 08510, USA; phone: +1-609-208-2800; email: info@armfieldinc.com; website: www.discoverarmfield.com.

ASC Scientific—Booth 530

2075 Corte Del Nogal, Suite T, Carlsbad, California 92011, USA; phone: +1-760-431-2655; fax: +1-760-431-0904; email: jtoth@ascscientific.com; website: www.ascscientific.com.

Association for Women Geoscientists—Booth 858

12000 N. Washington Street, Suite 285, Thornton, Colorado 80241, USA; phone: +1-303-412-6219; fax: +1-303-253-9220; email: office@awg.org; website: www.awg.org. The Association for Women Geoscientists (AWG) encourages the participation of women in the geosciences, enhances professional development of women geoscientists, and provides science outreach for girls. Stop by our booth to learn how you can be a contributor, participant, and benefactor to this dynamic organization.

Association of American State Geologists (AASG)—Booth 855

900 Natural Resources Drive, Suite 500, Charlottesville, Virginia 22903, USA; phone: +1-434-951-6350; fax: +1-434-951-6366; email: david.spears@dmme.virginia.gov; website: www.stategeologists.org. The Association of American State Geologists represents the geological surveys of the U.S. states and Puerto Rico. Membership includes sitting State Geologists as well as Honorary and Associate members. Our GSA booth is a popular destination at which to meet the State Geologists, learn about the work of the state surveys, and collect state geological map postcards (free!).

Association of Earth Science Editors (AESE)—Booth 653

650 W Montecito Way, San Diego, California 92103-1975, USA; phone: +1-619-787-4099; email: geologycarole@gmail.com; website: www.aese.org. AESE is an organization of editors, journal managers, and others involved with publication in the earth sciences. The goals of AESE are promoting the interchange of ideas and solving the problems involved in selecting, editing, and publishing books and articles in the earth sciences. We have an annual meeting with technical sessions and an associated field trip.

Auburn University Dept. of Geology & Geography—Booth 123

104 Dudley Hall, Auburn, Alabama 36849, USA; phone: +1-334-844-4000; email: lewisrd@auburn.edu; website: www.auburn.edu.

Ball State University—Booth 314

Dept. of Geological Sciences, Ball State University, Muncie, Indiana 47306-0475, USA; phone: +1-765-285-8267; fax: +1-765-285-8265; email: rfluegem@bsu.edu; email: www.bsu.edu/geology. The Dept. of Geological Sciences at Ball State University operates a graduate program that offers an M.S. in Geology and a Ph.D. in Environmental Science. Assistantships are available. The department also offers a five-week, six-credit summer field camp

in the Black Hills and Bighorn Basin. Enrollment is open to non-Ball State students, and graduate credit may be earned.

Baylor University—Booth 422

Dept. of Geology, One Bear Place #97354, Waco, Texas 76798, USA; phone: +1-254-710-2361; fax: +1-254-710-2673; email: paulette_penney@baylor.edu; website: www.baylor.edu/geology. Baylor University is located in central Texas. The department offers both an M.S. and Ph.D. in Geology, with specialties in Engineering Geology & Hydrology, Geochemistry, Geophysics, Hydrogeology, Igneous Petrology & Volcanology, Paleoclimatology/Paleopedology, Paleontology/Paleoecology, Petroleum Geoscience & Sequence Stratigraphy, and Structural Geology & Tectonics.

Beta Analytic Inc.—Booth 619

4985 SW 74th Court, Miami, Florida 33155, USA; phone: +1-305-667-5167; fax: +1-305-663-0964; email: cpatrick@radiocarbon.com; website: www.radiocarbon.com. ISO 17025-accredited Beta Analytic is a dedicated radiocarbon dating (AMS) lab with standard turnaround time of 14 business days. Expedited services are available (2–6 business days). All analyses are performed in-house; BETA does not engage in satellite dating. Results are accessible 24/7 via web and mobile access. Respected worldwide for accuracy and customer care.

Bruker Corporation—Booth 937

5465 E Cheryl Pkwy, Madison, Wisconsin 53711, USA; phone: +1-608-276-3000; fax: +1-608-276-3006; email: kodi.morton@bruker.com; website: www.bruker-axs.com. Bruker offers high-end solutions for the analysis or comprehensive phase quantification of raw materials, minerals, and raw earth. Offering advanced solutions to reliably support geologists and prospectors on locating and analyzing deposits. Bruker's instruments can be found at an altitude of 4,000 meters or in deserts.

Bureau of Ocean Energy Management Marine Minerals Program—Booth 534

45600 Woodland Road VAM-LD, Sterling, Virginia 20166, USA; phone: +1-703-787-1524; website: www.boem.gov/Marine-Minerals-Program/. The Marine Minerals Program, part of the Bureau of Ocean Energy Management, manages the development of Outer Continental Shelf non-energy marine minerals. Although responsible for all non-energy marine mineral resources, the MMP primarily manages potential sand resources, conducts environmental reviews, and grants access to OCS sand and gravel for coastal restoration.

Cambridge University Press—Booth 710

32 Avenue of the Americas, New York, New York 10013, USA; phone: +1-212-924-3900; fax: +1-212-691-3239; email: jmurphy@cambridge.org; website: www.cambridge.org/us. Please stop by the Cambridge University Press booth and enjoy a 20% discount on all our Earth Science titles, including Loughlin et al., *Global Volcanic Hazards and Risk*; Shepard: *Asteroids*; and Aricò: *Ocean Sustainability in the 21st Century*. Editor Matt Lloyd will be available to discuss book projects.

Carton Optical Industries Ltd.—Booth 343

27-11 Higashi Ueno 1-chome, Taito-ku, Tokyo 110-0015, Japan; phone: +1-81-3-3832-1320; email: sasano@carton-opt.co.jp; website: www.carton-opt.co.jp. Carton Optical Industries Ltd. is one of the leading Japanese manufacturers of microscopes, offering polarizing microscopes, metallurgical microscopes, gemological microscopes, and compound stereo microscopes.

Central Washington University—Booth 206

400 E University Way, Ellensburg, Washington 98926, USA; Phone: +1-509-963-1628; email: mattinson@geology.cwu.edu; website: www.geology.cwu.edu/dept/programs/grad/. The Central Washington University Dept. of Geological Sciences offers a Master of Science graduate degree in Geology. Faculty expertise covers a wide range of disciplines in the geological sciences. CWU is located in a picturesque valley in the foothills of the Cascade Mountains.

The Clay Minerals Society—Booth 1014

3635 Concorde Pkwy, Suite 500, Chantilly, Virginia 20151-1110, USA; phone: +1-703-652-9960; fax: +1-703-652-9951; email: cms@clays.org; website: www.clays.org.

Colorado School of Mines Dept. of Geology & Geological Engineering—Booth 200

1516 Illinois Street, Golden, Colorado 80401, USA; phone: +1-303-384-2375; email: cvantass@mines.edu; website: geology.mines.edu.

Consortium of Universities for the Advancement of Hydrologic Science Inc. (CUAHSI)—Booth 446

196 Boston Ave., Suite 3000, Medford, Massachusetts 02155, USA; phone: +1-339-221-5400; fax: +1-339-674-3000; email: egeosling@cuahsi.org; website: www.cuahsi.org. The Consortium of Universities for the Advancement of Hydrologic Science Inc. (CUAHSI) is a 501(c)3 research organization representing more than 100 U.S. universities and international water science-related organizations. CUAHSI receives support from the National Science Foundation (NSF) to support the advancement of water science in the United States.

Council on Undergraduate Research—Booth 435

URSCO, UNCG, 136 McIver Bldg., P.O. Box 26170, Greensboro, North Carolina 27402, USA; phone: +1-336-334-4622; email: lee.phillips@uncg.edu; website: www.cur.org. The mission of the Council on Undergraduate Research is to support and promote high-quality undergraduate student-faculty collaborative research. The Geosciences Division includes a growing group of faculty and administrators who are dedicated to engaging the next generation of geoscientists in meaningful experiences that help them better own their education.

Cushman Foundation for Foraminiferal Research—Booth 1035

1215 S Buchanan Street, Arlington, Virginia 22204, USA; phone: +1-202-663-1327; fax: +1-202-786-2832; email: petrnyl@si.edu; website: www.cushmanfoundation.org.

Department of Geology, University of Buffalo—Booth 207

411 Cooke Hall, Buffalo, New York 14216, USA; phone: +1-716-645-4865; fax: +1-716-645-3999; email: bratcher@buffalo.edu; website: www.geology.buffalo.edu.

Dino-Lite Scopes (BigC)—Booth 317

20655 S Western Ave., Suite 116, Torrance, California 90501, USA; phone: +1-310-618-9990; fax: +1-877-978-2787; email: pszeto@bigc.com; website: www.dinolite.us. Dino-Lite portable digital microscopes and eyepiece cameras provide high-quality microscopy video interfacing to PC and Mac. Most models provide 10× to 200× magnification with features such as measurement and adjustable polarizer. The included DinoCapture software makes it easy to take snapshots, record videos, manipulate images, and save and email discoveries.

DirectAMS—Booth 849

11822 North Creek Pkwy N, Suite 107, Bothell, Washington 98011, USA; phone: +1-425-481-8122; email: alyssa@directams.net; website: directams.net.

DOSECC Exploration Services LLC—Booth 426

2075 Pioneer Rd, Suite B, Salt Lake City, Utah 84104, USA; phone: +1-801-583-2150; fax: +1-801-583-2153; email: bmarshall@dosecc.com; website: www.dosecc.com. DOSECC Exploration Services designs and builds drilling equipment and conducts drilling operations to assist clients with scientific research as well as geothermal and mineral exploration projects. We specialize in the collection of high-quality continuous core samples and operate both on land and in shallow water worldwide.

EarthScope—Booth 451

Geophysical Institute, UAF 903 Koyukuk Drive, Fairbanks, Alaska 99775, USA; phone: +1-907-474-7286; email: jeff.freymueller@gi.alaska.edu; website: www.earthscope.org.

EARTHTIME—Booth 448

77 Massachusetts Ave., Bldg. 54-1120, Cambridge, Massachusetts 02139, USA; phone: +1-617-253-3775; fax: +1-617-253-6735; email: sbowring@mit.edu; website: www.mit.edu.

East Carolina University—Booth 208

Dept. of Geological Science, Mail Stop 558, Greenville, North Carolina 27858, USA; phone: +1-252-328-6360; email: neald@ecu.edu; website: www.ecu.edu.

Elementar Americas—Booth 946

520 Fellowship Road, Suite D-408, Mount Laurel, New Jersey 08054, USA; phone: +1-856-787-0022; email: info@elementarAmericas.com; website: www.elementarAmericas.com.

Elsevier—Booth 412

Radarweg 29, Amsterdam 1043NX, Netherlands; phone: +31 20 485 3899; email: k.rietveld@elsevier.com; website: www.elsevier.com. For over 60 years, Elsevier has been a leading publisher in Earth and Planetary Sciences, publishing highly respected books and

journals in the field, including many prestigious society titles. By delivering first class information and innovative tools, we continue to refine our portfolio to serve the research need of educators, researchers, and students worldwide.

**Environmental & Engineering Geophysical Society (EEGS)
—Booth 916**

1720 S Bellaire Street, Suite 110, Denver, Colorado 80222, USA; phone: +1-303-531-7517; email: staff@eegs.org; website: www.eegs.org.

Environmental Isotope Lab—Booth 514

200 University Ave. West, Waterloo, Ontario N2L 3G1, Canada; phone: +1-519-888-4567; fax: +1-519-746-7484; email: rkmskrk@uwaterloo.ca; website: www.uwaterloo.ca. The University of Waterloo's uwEILAB is a world-class research facility specializing in the analysis of H, C, N, O, S, Cl, Br and Sr isotopes in natural and man-made materials. Fee-for-service analytical support is provided by highly qualified staff operating EA, GC-C, IRMSs, TIMS, LSCs, and tritium enrichment.

esri—Booth 518

380 New York Street, Redlands, California 92723, USA; phone: +1-909-793-2853; fax: +1-909-307-3102; email: mkralik@esri.com; website: www.esri.com. Esri Press publishes books about the science, application, and technology of geographic information systems. Our mission is to advance geographic understanding and literacy in all endeavors, including education, business, government, and healthcare.

Estwing Mfg. Co.—Booth 934

2647 Eighth Street, Rockford, Illinois 61109, USA; phone: +1-815-397-9558; fax: +1-815-397-8665; email: sales@estwing.com; website: www.estwing.com.

European Geosciences Union (EGU)—Booth 559

EGU Executive Office Luisenstrasse 37, Munich 80333, Germany; phone: +49 89 2180-6549; fax: +49 89 2180-17855; email: info@egu.eu; website: www.egu.eu. The European Geosciences Union (EGU) is, with over 11,000 members, Europe's premier geosciences union. It is dedicated to the pursuit of excellence in the geosciences and the planetary and space sciences for the benefit of humanity. EGU has a current portfolio of 17 diverse open-access journals and its annual General Assembly is the largest European geosciences event.

Field Environmental Instruments—Booth 923

301 Brushton Ave., Suite A, Pittsburgh, Pennsylvania 15221, USA; phone: +1-412-436-2600; email: info@fieldenvironmental.com; website: www.fieldenvironmental.com.

Florida International University—Booth 103

Dept. of Earth and Environment 11200 SW 8th Street, AHC5 360, Miami, Florida 33199, USA; phone: +1-305-348-1930; email: zhup@fiu.edu; website: earthenvironment.fiu.edu. The Ph.D. in Earth Systems Science has subplans in Geosciences and Natural Resource Science and Management. Combining earth and atmospheric science with environmental research and policy

creates synergies in water issues, stratigraphy and petroleum, tectonics and natural hazards, environmental and climate change, and natural resources.

Forestry Suppliers Inc.—Booth 1010

205 W Rankin Street, Jackson, Mississippi 39201, USA; phone: +1-601-354-3565; email: fsi@forestry-suppliers.com; website: www.forestry-suppliers.com. Forestry Suppliers is a worldwide supplier of equipment & field supplies for forestry, environmental, geology, and other outdoor professions. Products include field vests, stake wire flags, flagging, GPS receivers, compasses, total stations, rangefinders, snake leggings, pocket transits, rock picks, and magnifiers.

FOSSIL (The FOSSIL Project)—Booth 1041

Florida Museum of Natural History, University of Florida, 1659 Museum Road, Gainesville, Florida 32611, USA; phone: +1-352-273-1936; fax: +1-352-846-0287; email: fossil@flmnh.ufl.edu; website: www.myfossil.org. FOSSIL, Fostering Opportunities for Synergistic STEM with Informal Learners, is a networked community where amateur and professional paleontologists collaborate in learning, research, and outreach. We provide opportunities to communicate electronically and socially; attend meetings and workshops; contribute to digitized collections in museums; and digitize and share personal collections.

Gems & Crystals Unlimited—Booth 423

3144 Havenridge Court NE, Atlanta, Georgia 30319, USA; phone: +1-678-595-2113; email: jeweler@mindspring.com; website: www.gemsandcrystalsunlimited.com.

Geochemical Society—Booth 1018

5241 Broad Branch Road NW, Washington D.C. 20015; phone: +1-202-478-8836; email: gsoffice@geochemsoc.org; website: www.geochemsoc.org. The Geochemical Society encourages the application of geochemistry to improving our understanding of the Earth and solar system. The society sponsors the annual Goldschmidt conference, the journal *Geochimica et Cosmochimica Acta*, an electronic newsletter, awards programs recognizing significant accomplishments in the field, and student development programs.

The Geochemist's Workbench—Booth 758

301 N. Neil Street, Suite 400, Champaign, Illinois 61820, USA; phone: +1-217-531-1206; email: bfarrell@gwb.com; website: www.gwb.com. The Geochemist's Workbench® is a set of interactive software tools for solving problems in aqueous geochemistry, including those encountered in environmental protection and remediation, the petroleum industry, and economic geology.

Geocognition Research Lab—Booth 658

288 Farm Lane, 206 Natural Science, East Lansing, Michigan 48824; email: libarkin@msu.edu; website: www.geology.msu.edu.

Geological Association of Canada—Booth 1016

Dept. of Earth Sciences, Memorial University 300 Prince Phillip Drive, St. John's, Newfoundland A1B3X5, Canada; phone: +1-709-864-7660; fax: +1-709-864-2532; email: gac@mun.ca; website: www.gac.ca. The Geological Association of Canada is a member-driven not-for-profit that rewards outstanding geoscience, publishes and sells books, produces a renowned journal (*Geoscience Canada*), hosts conferences, and provides venues for learned discussion.

The Geological Society of London—Booth 647

Unit 7 Brassmill Enterprise Centre, Brassmill Lane, Bath, UK; phone: +1-441-225-4450-46; fax: +1-441-225-4428-36; email: anne.davenport@geolsoc.org.uk; website: www.geolsoc.org.uk. The Geological Society of London is the UK's national society for geosciences—it is the oldest geological society and boasts one of the most important geological libraries worldwide. With over 12,000 members, it is a global leader in earth-science publishing. Visit our booth to find out more about our rediscovered first-edition William Smith map.

Geophysical Survey Systems Inc. (GSSI)—Booth 759

12 Industrial Way, Salem, New Hampshire 03079, USA; phone: +1-603-893-1109; fax: +1-603-889-3984; email: harmonj@geophysical.com; website: www.geophysical.com. GSSI is the world leader in the development, manufacture, and sale of GPR equipment. Our cutting edge products are used all over the world to explore the subsurface of the earth. GSSI created the first commercial GPR system 45 years ago and continues to provide the widest range and highest quality systems available today.

GEOROC Database—Booth 932

Hahn-Meitner-Weg 1, Mainz 55131, Germany; phone: +49 61 31305 6801; email: b.sarbas@mpic.de; website: georoc.mpch-mainz.gwdg.de/georoc/. The open-access database GEOROC is maintained by the Max Planck Institute for Chemistry in Mainz. GEOROC is a comprehensive collection of published analyses of volcanic rocks and mantle xenoliths from various geological settings. Currently, the database contains data from about 13,500 papers.

Geoscience Information Society (GSIS)—Booth 416

Online at www.geoinfo.org. The Geoscience Information Society (GSIS) promotes access to information in the geosciences through cooperation with scientists, information professionals, librarians, editors, cartographers, and educators. The booth will highlight information literacy and annual awards.

GeoScienceWorld—Booth 910

8200 Greensboro Drive, Suite 900, McLean, Virginia 22102, USA; phone: +1-703-677-3117; email: anderson@geoscienceworld.org; website: www.geoscienceworld.org. GSW is a nonprofit collaborative and Internet resource for research and communications in the earth sciences. Fully integrated with the GeoRef index, it is a single point of access to 46 full-text scholarly journals. GSW launched OpenGeoSci, a public map-based discovery interface and the GSW eBooks Collections consisting of more than 1,100 eBooks from 11 leading publishers.

Geoscientists Without Borders SEG Humanitarian Program—Booth 956

8801 S Yale Ave., Suite 500, Tulsa, Oklahoma 74137, USA; phone: +1-918-497-5500; fax: +1-918-497-5560; email: withoutborders@seg.org; website: www.seg.org/gwb. Geoscientists Without Borders is a Society of Exploration Geophysicists (SEG) program that applies geoscience technology for humanitarian benefits around the world. With support from donors and partners, the program has supported 24 projects in 19 countries since 2009. Find out more on our website and consider giving your support to the program to keep the successes coming.

GIA—Booth 418

5345 Armada Drive, Carlsbad, California 92008, USA; phone: +1-760-603-4000; fax: +1-760-603-4080; email: ddirlam@gia.edu; website: www.gia.edu.

GNS Science—Booth 411

P.O. Box 31312, Lower Hutt 5010, New Zealand; phone: +1-642-743-1062-2; fax: +1-644-570-4657; email: m.sim@gns.cri.nz; website: www.gns.cri.nz. GNS Science is New Zealand's earth-sciences research Institute. We do also provide services from our stable and cosmogenic isotope, water dating, and Rafter Radiocarbon labs to clients around the globe. Rafter Radiocarbon is the world's oldest lab offering competitive services backed by the scientific rigor of research and more than 60 years of experience. Come by for a chat.

GSA Geoinformatics Division—Booth 1011

Boulder, Colorado 80301, USA; email: ndillon@geosociety.org; website: www.geoexpertsintl.com/geoinformatics.

GSA Geology and Health Division—Booth 1015

Boulder, Colorado 80301, USA; phone: +1-303-357-1090; website: rock.geosociety.org/GeoHealth/index.html.

GSA Geology and Society Division—Booth 1005

214 Briar Lane, Champaign, Illinois 61820, USA; phone: +1-217-398-0962; email: geolojon@comcast.net; website: community.geosociety.org/gsocdivision/myhome.

GSA Headquarters Services—Booths 523, 533, and 539**Membership—Booth 523**

Renew your 2016 membership. Division and Section affiliations, and journal subscriptions, and contribute to the GSA Foundation. Get 15% off* membership dues (applies to those in high-income country economies) plus a thank-you gift. **Not already a GSA Member?** Join now and receive a welcome gift. Plus: Enter for our DAILY DRAWINGS!

Bookstore—Booth 533

Browse GSA's latest products, including this meeting's field guide. Leaf through newly published books and some tried-and-true favorites. We also sell Rite in the Rain products and the ever-popular Geologic Time Scale poster.

Book signings: On Sun., 5:45–7 p.m., **Simon Winchester** will sign copies of his newly released book, *Pacific*, as well as *The Map That Changed the World*. **James Balog** will sign copies of his book, *ICE*, on Tues., 9–10:30 a.m.

Also in the GSA HQ booth area: View a newly rediscovered, pristine high-quality facsimile, **first edition of William Smith's 1815 map of England, Wales, and part of Scotland** from the Geological Society of London.

GSA Foundation—Booth 539

The GSA Foundation booth will showcase five GSA programs that are advancing the Society's mission (see p. 45). Drop by and learn how to participate in or support programs providing formative experiences for hundreds of geoscience students and early career GSA members.

GSA History & Philosophy of Geology Division—Booth 1017

Boulder, Colorado 80301, USA; phone: +1-303-357-1090; email: rclary@geosci.msstate.edu; website: www.gsahist.org. The History and Philosophy of Geology Division encompasses ALL geological disciplines. Stop by our booth to learn how you can be part of our Division, participate in our Division activities, and learn about your geological roots. In Baltimore, we'll focus on the bicentennial of William Smith's 1815 map, as well as the great images of geology.

GSA Hydrogeology Division—Booth 1013

Boulder, Colorado 80301, USA; phone: +1-303-357-1090; email: ndillon@geosociety.org; website: gsahydro.fiu.edu.

GSA International—Booth 1019

Boulder, Colorado, USA; phone: +1-303-357-1090; website: www.geosociety.org/GSA_International/.

GSA Karst Division—Booth 550

Boulder, Colorado 80301, USA; phone: +1-303-357-1090; email: ndillon@geosociety.org; website: www.geosociety.org/divisions/karst/karstmgboard.pdf.

GSA Limnology Division—Booth 1021

Boulder, Colorado 80301, USA; phone: +1-303-357-1090; website: rock.geosociety.org/limno/index.html.

GSA Planetary Geology Division—Booth 1027

6220 Culebra Road, San Antonio, Texas 78238, USA; phone: +1-210-522-6837; email: dwyrick@swri.org; website: www.rock.geosociety.org.

Hofstra University—Booth 306

Hofstra University, Dept. of Geology, Environment, and Sustainability, Hempstead, New York 11549, USA; phone: +1-516-463-7348; email: robert.brinkmann@hofstra.edu; website: www.hofstra.edu/Academics/Colleges/HCLAS/GEOL/index.html. Offering undergraduate degrees in geology, environmental resources, and sustainability, as well as an M.A. in sustainability. We are located in beautiful Long Island near New York City. We offer small classes and great field experiences.

HORIBA Scientific—Booth 419

3880 Park Ave., Edison, New Jersey 08820, USA; phone: +1-732-494-8660; fax: +1-732-549-5125; email: joanne.lowy@horiba.com; website: www.horiba.com/scientific. HORIBA Scientific, world leader in spectroscopic instrumentation, offers products for Raman, steady state, and lifetime fluorescence, including the products of Photon Technology International (PTI), and EDXRF spectrometers. The MESA-50 EDXRF Analyzer is useful for applications including forensics, geology, materials, archaeology, and RoHS/ELV compliance testing.

Howard Hughes Medical Institute—Booth 914

4000 Jones Bridge Road, Chevy Chase, Maryland 20815, USA; phone: +1-301-215-8500; email: biointeractive@hhmi.org; website: www.hhmi.org/biointeractive. HHMI's BioInteractive team develops free resources based on real data, highlighting research practices. Our short films, virtual labs, apps, and print materials combine important science with engaging presentation. These multimedia resources are developed, vetted, and field-tested by educators and scientists.

IKON Mining—Booth 511

P.O. Box 2620, Fallbrook, California 92088, USA; phone: +1-760-723-3484; fax: +1-760-723-3984; email: ikonmining@gmail.com.

Indiana University—Bloomington—Booth 318

1001 E. 10th Street, Bloomington, Indiana 47405, USA; phone: +1-812-855-7214; email: tarcuri@indiana.edu; website: www.iub.edu.

Institute for Broadening Participation—Booth 347

P.O. Box 607, 281 Main Street, Damariscotta, Maine 04543, USA; phone: +1-202-556-9722; email: aterrell@ibparticipation.org; website: www.pathwaystoscience.org. The mission of the Institute for Broadening Participation is to increase diversity in the STEM workforce. We design and implement strategies to increase access to STEM education, funding, and careers through our pathways to science website, with special emphasis on diverse underrepresented groups. Visit our website to search opportunities.

International Association for Geoscience Diversity—Booth 431

University of Cincinnati, 2600 Clifton Ave., Cincinnati, Ohio 45221, USA; phone: +1-937-623-3386; email: christopher.atchison@uc.edu; website: www.theiagd.org. The International Association for Geoscience Diversity (IAGD) is charged with raising awareness of access and promoting a community of inclusive opportunities for students, faculty, and practitioners with disabilities in the geosciences.

International Association of GeoChemistry (IAGC)—Booth 1012

125 S. Oval Mall, 275 Mendenhall Lab, Columbus, Ohio 43210, USA; phone: +1-614-688-7400; fax: +1-614-292-7688; email: iageochemistry@gmail.com; website: www.iagc-society.org. The IAGC is an international organization committed to excellence in the geochemical sciences that promotes the application of chemistry in the earth and environmental sciences. We sponsor scientific conferences and educational activities, establish internal specialty-area working groups, and disseminate new geochemical knowledge through scientific publishing.

International Centre for Diffraction Data (ICDD)—Booth 930
12 Campus Blvd., Newtown Square, Pennsylvania 19073, USA; phone: +1-610-325-9814; fax: +1-610-325-9823; email: hish@icdd.com; website: www.icdd.com. ICDD's material identification databases are designed for rapid materials identification and interfaced with diffractometers and data analysis systems of the leading software developers and manufacturers of X-ray equipment. The Powder Diffraction File is available in PDF-2; PDF-4+; PDF-4/Minerals; and PDF-4/Organics. PDF-4/Minerals 2015 currently features 42,852 entries.

International Chemical Analysis Inc. (ICA)—Booth 331
1951 NW 7th Ave., Suite 300, Miami, Florida 33136, USA; phone: +1-305-965-1636; email: diazbl@att.net; website: www.radiocdating.com.

International Nannoplankton Association—Booth 1037
2021 168th Road, Garland, Nebraska 68360, USA; phone: +1-703-648-6013; email: jstrail@usgs.gov; website: www.ina.tmsoc.org.

International Union of Geological Sciences—Booth 936
No. 26 Baiwanzhuang Street, Xicheng District, Beijing 100037, China; phone: +86 10 883 33290; email: secretariat@iugs.org; website: www.iugs.org. IUGS aims to promote development of the Earth sciences through the support of broad-based scientific studies relevant to the entire Earth system and to apply the results of these and other studies to preserving Earth's natural environment, using all natural resources wisely and improving the prosperity of nations and the quality of human life.

Iowa State University—Booth 219
Iowa State University, 253 Science, Ames, Iowa 50011, USA; phone: +1-515-294-4477; fax: +1-515-294-6049; email: dfrisk@iastate.edu; website: www.iastate.edu.

IRIS Consortium—Booth 453
1200 New York Ave. NW, Suite 400, Washington D.C. 20005; phone: +1-202-682-2220; fax: +1-202-682-0633; email: dorr@iris.edu; website: www.iris.edu. IRIS is a consortium of over 120 U.S. universities dedicated to the operation of scientific facilities and provision of services for the acquisition, management, and distribution of seismological data. IRIS programs contribute to scholarly research, education, earthquake hazard mitigation, tsunami warning, and to the monitoring of underground nuclear tests.

Isomass Scientific Inc.—Booth 413
#140, 5700 1st Street SW, Calgary, Alberta, Canada; phone: +1-403-255-6631; fax: +1-403-255-6958; email: peter.stow@isomass.com; website: www.isomass.com.

John D. Cooper Center—Booth 1036
1141 E Chestnut Street, Santa Ana, California 92701, USA; phone: +1-510-332-8564; email: jlipps@fullerton.edu; website: www.jdcoopercenter.org. The Cooper Center curates, researches, and exhibits Orange County (OC), California, fossils and artifacts. It is a partnership between the OC and Cal State Univ. Fullerton. Researchers and teachers are invited to utilize the collections for

their own work and teaching. At over six million objects spanning 180 million years of OC history, the collection contains new taxa, problems, and challenges.

Johns Hopkins University Press, Books Division—Booth 516
2715 N Charles Street, Baltimore, Maryland 21218, USA; phone: +1-410-516-6900; email: bcc@press.jhu.edu; website: www.press.jhu.edu.

Jones & Bartlett Learning—Booth 817
5 Wall Street, Burlington, Massachusetts 01803, USA; phone: +1-978-443-5000; fax: +1-978-443-8000; email: lwhite@jblearning.com; website: www.jblearning.com. Jones & Bartlett Learning is a world-leading provider of instructional, assessment, and learning-performance management solutions for the secondary education, post-secondary education, and professional markets. Our educational programs and services improve learning outcomes, enhance student achievement, and increase career readiness.

Kansas State University—Booth 336
Dept. of Geology, Kansas State University, Manhattan, Kansas 66506, USA; phone: +1-785-532-6743; email: pkempton@ksu.edu; website: www.k-state.edu/geology/. At K-State, we have made it our mission to deliver excellence in teaching and research so that our students are equipped with the knowledge to understand and predict how our planet works and to apply that knowledge to the key challenges facing society today: meeting demands for energy, minerals, water, and food, while responsibly managing our environment.

Komodo Dragon—Booth 522
P.O. Box 1490, The Dalles, Oregon 97058, USA; phone: +1-541-478-2112; email: komodo@komododragon.com. Komodo Dragon celebrates our 28th year at GSA! We offer quality fossil and mineral specimens, geological home décor items, carvings, educational earth science kits, bookends, bowls, and lab specimens. We also have an outstanding selection of unique handcrafted jewelry featuring unusual gemstones set in gold and sterling silver.

LacCore / CSD.C.O.—Booth 835
500 Pillsbury Drive SE, Minneapolis, Maryland 55455, USA; phone: +1-612-626-7889; fax: +1-612-626-7750; email: amyro@umn.edu; website: www.laccore.org.

Lawrence Berkeley National Laboratory Earth Sciences Division—Booth 517
1 Cyclotron Road, Mississippi 74-316C, Berkeley, California 94720, USA; phone: +1-510-486-7357; fax: +1-510-486-5686; email: mvillavert@lbl.gov; website: esd1.lbl.gov/research/projects/subter/index.html. This LBNL-hosted booth (in partnership with the U.S. DOE and other National Laboratories) highlights "Subsurface Technology & Engineering Research, Development & Demonstration" (SubTER), a new crosscutting research, development, demonstration, and deployment (RD3) strategy focused on effectively addressing the energy grand challenges that are faced by multiple sectors.

Little River Research & Design—Booth 831

514 E. Main Street, Carbondale, Illinois 62901, USA; phone: +1-618-529-7423; fax: +1-618-529-0927; email: info@emriver.com; website: www.emriver.com. Emriver river process simulators are powerful hands-on tools for research and education in the geosciences. Available in 2-meter, 3-meter, or 4-meter lengths with optional dual-axis tilt base, the river models use plastic modeling sediment to demonstrate principles of river behavior, channel morphology, and sediment transport.

Macroscopic Solutions LLC—Booth 424

1 Technology Drive, Tolland, Connecticut 06084, USA; phone: +1-410-258-6144; email: mark@macroscopicsolutions.com; website: www.macroscopicsolutions.com. Macroscopic Solutions provides products, services, and support that are based on the photographic technique of Focus stacking. This conference will be the release of a new product, the Petrographic Analyzer: https://www.youtube.com/watch?v=_R1YUyJnJrs.

Mala Geoscience USA Inc.—Booth 718

465 Deanna Lane, Charleston, South Carolina 29492, USA; phone: +1-843-852-5021; fax: +1-843-284-0684; email: sales.usa@malags.com; website: www.malags.com. MALA Geoscience released its cutting edge High Dynamic Range (HDR) series of antennas for 2014. HDR performance is superior to any conventional GPR technology in the field. The HDR series is available at a range of frequencies for any geological or geophysical GPR investigation and boast superior depth penetration and bandwidth that mimics a dual-f antenna.

Mappt—Booth 442

Unit 28, 12 Cowcher Place, Perth, Western Australia 6104, Australia; phone: +61 40 988 5776; email: alistair@takor.com.au; website: www.mappt.com.au. Mappt is an offline mobile GIS application that is democratizing the geospatial industry. It is packed with all the features you need to capture data in the field, but on a simple, user-friendly interface. Mappt is low cost and available on the Google Play Store for anyone to download onto an Android tablet, so you can leave bulky technology behind and map offline with ease.

Martin Microscope Company—Booth 943

207 S. Pendleton Street, Easley, South Carolina 29640, USA; phone: +1-864-242-3424; fax: +1-864-859-3332; email: bob@martinmicroscope.com; website: www.martinmicroscope.com. We are a leading distributor of microscopes and imaging equipment, in the microscopy business for almost seventy years. Our large inventory of new and used microscopes and accessories, combined with our own innovative products, enable us to provide the best combination of quality and affordability to our customers.

McGraw-Hill Education—Booth 927

Two Penn Plaza, New York, New York 10121-2298, USA; phone: +1-646-766-2892; email: mary.donnely@mheducation.com; website: shop.mheducation.com.

Meiji Techno America—Booth 319

5895 Rue Ferrari, San Jose, California 95138, USA; phone: +1-408-226-3454; fax: +1-408-226-0900; email: info@meijitechno.com;

website: www.meijitechno.com. Meiji Techno America Microscopes—no other line of stereo and compound microscopes from Japan can match the combination of superb optics, rugged dependability, economical pricing, and a wide range of accessories, including transmitted and incident polarizing microscopes for looking at thin sections or interference figures along with a full line of stereo microscopes.

Miami University—Booth 241

Dept. of Geology & Environmental Earth Sciences, Oxford, Ohio 45056, USA; phone: +1-513-529-3216; website: www.miamioh.edu/geology.

Micropaleontology Press—Booth 1039

6530 Kissena Blvd., Queens, New York 11367, USA; phone: +1-718-570-0505; fax: +1-718-570-0506; email: subs@micropress.org; website: www.micropress.com. Micropaleontology Press was founded in 1931 as a nonprofit organization with support from the federal WPA and oil companies to develop microfossil catalogues. It was housed at the American Museum of Natural History during and after WW II, where *Micropaleontology* and *Stratigraphy* were launched, and is now located at Queens College, CUNY.

Midland Valley Exploration Ltd.—Booth 333

2 West Regent Street, Glasgow G2 1RW, UK; phone: +44 (0) 141 332 2681; fax: +44 (0) 141 332 6792; email: cara@mve.com; website: www.mve.com. The structural geology experts providing digital field mapping applications: FieldMove and FieldMove Clino, and Move™ software for best practice structural modelling. Move™ provides a platform for integrating data, cross-section construction, 3D model building, kinematic restoration and validation, geomechanical modelling, fracture modelling and fault analysis.

Mineralogical Association of Canada—Booth 1026

490, Rue de la Couronne, Québec, Quebec G1K 9A9, Canada; phone: +1-418-653-0333; fax: +1-418-653-0777; email: johanne.caron@ete.inrs.ca; website: www.mineralogicalassociation.ca. The Mineralogical Association of Canada is a non-profit scientific organization that promotes and advances the knowledge of mineralogy and the allied disciplines of crystallography, petrology, geochemistry, and mineral deposits. Through our annual meetings, short courses, publications, and symposia, we provide a forum for the dissemination of current knowledge to earth scientists.

Mineralogical Society of America—Booth 1022

3635 Concorde Pkwy, Suite 500, Chantilly, Virginia 20151-1110, USA; phone: +1-703-652-9950; fax: +1-703-652-9951; email: jaspeer@minsocam.org; website: www.minsocam.org. Interested in mineralogy, crystallography, geochemistry, petrology, or natural materials? Visit the Mineralogical Society of America booth for membership and MSA programs information. On display and sale are volumes of the *American Mineralogist*, monographs, textbooks, the latest *Reviews in Mineralogy and Geochemistry* series, and publications of related societies.

Mississippi State University—Booth 430

Mississippi State University, Hilban Hall P.O. Box 5448, Mississippi State, Mississippi 39762, USA; email: schmitz@geosci.msstate.edu; website: www.msstate.edu.

Missouri State University M.S. Geospatial Sciences in Geology—Booth 302

901 S. National, Springfield, Missouri 65897, USA; phone: +1-417-836-5801; email: deanagibson@missouristate.edu; website: geosciences.missouristate.edu. Missouri State University offers Master of Science degrees in Geospatial Sciences in Geography, Geology, and Planning and Earth Science Education along with custom-designed programs. With a broad array of faculty and research interests, many opportunities exist for thesis research in a variety of geologic specialties.

Missouri University of Science and Technology—Booth 300

129 McNutt Hall, 1400 N. Bishop Ave., Rolla, Missouri 65409, USA; phone: +1-573-341-6946; email: ikuenobe@mst.edu; email: ggpe.mst.edu.

Mountain Press Publishing Company—Booth 912

1301 S Third Street West, Missoula, Montana 59801, USA; phone: +1-406-728-1900; fax: +1-406-728-1635; email: info@mtnpublish.com; website: mountain-press.com. Mountain Press publishes books on geology and natural history. We are known for the bestselling *Roadside Geology* and *Geology Underfoot* series. All books at the booth will be discounted. Look for new editions of *Roadside Geology of Oregon*, Utah, Colorado, and Alaska. We will also have *Geology Underfoot in Western Washington*.

NASA—Booth 823

NASA Goddard Space Flight Center, Bldg. 33, Room E112, Greenbelt, Maryland 20771, USA; phone: +1-301-614-5560; fax: +1-301-614-5630; email: winnie.h.humberson@nasa.gov; website: www.nasa.org.

National Association of Geoscience Teachers (NAGT)—Booth 931

1 North College Street, Carleton College, B-SERC, Northfield, Minnesota 55057, USA; phone: +1-507-222-5634; fax: +1-507-222-5175; email: kherbstr@carleton.edu; website: www.nagt.org. The National Association of Geoscience Teachers (NAGT) works to foster improvement in the teaching of the Earth sciences at all levels of formal and informal instruction, to emphasize the cultural significance of the Earth sciences, and to disseminate knowledge in this field to the general public. Visit our booth to meet our staff and member volunteers and to learn more about NAGT.

National Association of State Boards of Geology (ASBOG®)—Booth 313

P.O. Box 5219, 6000 Stewart Pkwy, Douglasville, Georgia 30154, USA; phone: +1-678-713-1251; email: asbog@asbog.org; website: www.asbog.org. ASBOG® serves as a connective link among the individual state geologic registration licensing boards for the planning and preparation of uniform procedures. One of ASBOG's principal services is to develop standardized written examinations

for determining qualifications of applicants seeking licensure as professional geologists.

National Cave and Karst Research Institute (NCKRI)—Booth 546

400-1 Cascades Ave., Carlsbad, New Mexico 88221, USA; phone: +1-575-887-5518; fax: +1-557-887-5523; email: dherr@nckri.org; website: www.nckri.org.

National Park Service—Booth 436

P.O. Box 25287, Denver, Colorado 80225, USA; phone: +1-303-969-2017; fax: +1-303-987-6792; email: bruce_heise@nps.gov; website: www.nps.gov. The National Park Service preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education, and inspiration of this and future generations. The Geologic and Water Resources Divisions provide geologic and hydrologic information for science based resource management and to enhance park visitor experience.

National Science Foundation—Booth 447

4201 Wilson Blvd., Room 785, Arlington, Virginia 22230, USA; phone: +1-703-292-8550; fax: +1-703-292-9025; email: pbrookin@nsf.gov; website: www.nsf.gov. The Division of Earth Sciences (EAR) supports basic research aimed at improving our understanding of the natural processes that originally formed and continue to affect our planet's dynamic interior and ever-changing surface.

Natural Earth Craft LLC—Booth 311

2534 Coldsprings Drive, Dayton, Ohio 45434, USA; phone: +1-937-545-7476; email: naturalearthcraft@gmail.com; website: naturalearthcraft.etsy.com. Stone jewelry and sand paintings designed and created by geologist Heidi Scheirer McGrew. Jewelry designs highlight the natural beauty of semiprecious stones and more unusual stones of geological interest. Various size sand paintings are created using natural, undyed sand collected from my international travels as well as that of friends and family.

New Mexico Highlands University—Booth 202

Environmental Geology Program/NRM Department, Las Vegas, New Mexico 87701, USA; phone: +1-505-454-3513; email: mspetro@nmhu.edu; website: www.nmhu.edu/current-students/undergraduate/arts-and-sciences/natural-resources-management/environmental-geology/geology-career-descriptions/. Graduate assistantships are available for students wishing to pursue a M.S. in Geology beginning Fall 2016. The Environmental Geology Program's strengths are in mineralogy, petrology, geochemistry, rock-paleomagnetism, structural geology, volcanology, water chemistry, and environmental science. Assistantship includes a nine-month stipend and tuition waiver per academic year.

NSF Antarctic and Arctic Data Consortium—Booth 450

1954 Buford Ave. LES R280, St Paul, Minnesota 55108, USA; phone: +1-612-625-6331; email: pundsack@umn.edu; website: www.pgc.umn.edu. The NSF Antarctic and Arctic Data Consortium (a2dc) is a collaboration of research centers and

support organizations that provide polar scientists with data and tools to complete their research objectives. Polar researchers can utilize the a2dc to search and contribute to the wealth of polar scientific and geospatial data.

Oklahoma State University, Boone Pickens School of Geology—Booth 220

105 Noble Research Center, Stillwater, Oklahoma 74078, USA; phone: +1-405-744-6358; fax: +1-405-744-7841; email: estella.atekwana@okstate.edu; website: www.geology.okstate.edu.

Olympus—Booth 532

48 Woerd Ave., Waltham, Massachusetts 02453-3826, USA; phone: +1-781-419-3900; fax: +1-781-419-3980; email: info@olympus-ossa.com; website: www.olympus-ims.com. Olympus has an industry-leading portfolio of X-ray fluorescence (XRF) and X-ray diffraction (XRD) analyzers for global exploration and mining. Olympus XRF & XRD systems for elemental analysis and structural characterization provide high performance, real-time geochemical data for the entire mining process, from exploration to process control.

Oregon State University—Booth 815

Oregon State University, 104 Ceoas Admin, Corvallis, Oregon 97331, USA; phone: +1-541-737-5188; email: hartline@ceos.oregonstate.edu; website: www.ceos.oregonstate.edu. The College of Earth, Ocean, and Atmospheric Sciences is an internationally recognized leader in the study of Earth as an integrated system. Organized around the interdisciplinary sciences of the Earth, ocean, and atmosphere, we prepare students and enable faculty to explore new ideas and address complex issues of planetary-scale science.

Oxford University Press—Booth 615

198 Madison Ave., New York, New York 10016, USA; phone: +1-800-451-7556; website: global.oup.com.

The Paleobiology Database—Booth 1033

University of Wisconsin, Dept. of Geosciences, Weeks Hall, 1215 W. Dayton Street, Madison, Wisconsin 53706, USA; phone: +1-608-262-5987; email: ahendy@nhm.org; website: paleobiodb.org. The Paleobiology Database is a public resource for paleontological data and is organized and operated by an international group of paleobiological researchers. Its purpose is to provide global occurrence and taxonomic data for fossils of all geological ages with the objective to encourage and enable data-driven efforts that address large-scale paleobiological questions.

Paleontological Research Institution—Booth 1038

1259 Trumansburg Road, Ithaca, New York 14850-1313, USA; phone: +1-607-273-6623; fax: +1-607-273-6620; email: publications@museumoftheearth.org; website: www.museumoftheearth.org. PRI, with its two educational venues—Museum of the Earth and Cayuga Nature Center—is a not-for-profit research and education facility in Upstate New York. Visit the booth for information about publications, educational programs, grant opportunities, and our plush toy-line “Paleozoic Pals,” this year introducing Greenops the Trilobite. Affiliated with Cornell University.

The Paleontological Society—Booth 1043

P.O. Box 9044, Boulder, Colorado 80301, USA; phone: +1-855-357-1032; email: service@paleosoc.org; website: www.paleosoc.org. The Paleontological Society, founded in 1908, is an international nonprofit organization devoted exclusively to the advancement of the science of paleontology, and publishes *Paleobiology*, *Journal of Paleontology*, and Special Publications. Members include professional paleontologists, teachers, museum specialists, students, post-docs, and avocational paleontologists.

Pearson—Booth 714

1301 Sansome Street, San Francisco, California 94111, USA; phone: +1-415-402-2500; email: neena.bali@pearson.com; website: www.pearsoned.com.

Purdue University—Booth 238

550 Stadium Mall Drive HAMP 2169, West Lafayette, Indiana 47907, USA; phone: +1-765-494-3258; fax: +1-765-496-1210; email: barbara@purdue.edu; website: www.eaps.purdue.edu. Purdue’s Dept. of Earth, Atmospheric, and Planetary Sciences (EAPS) is dedicated to the scientific study of physical, chemical, and dynamic processes that include a broad range of phenomena—from tectonics to asteroid impacts to severe weather. Come learn about the outstanding opportunities awaiting students interested in our department.

Renishaw Inc.—Booth 949

5277 Trillium Blvd., Hoffman Estates, Illinois 60192, USA; phone: +1-847-286-9953; email: usa@renishaw.com; website: www.renishaw.com. Renishaw is the world leader in high-sensitivity confocal Raman instrumentation offering Raman systems based on optical microscopes and advanced fiber optic probes. Renishaw provides a wide variety of standard and bespoke solutions to suit a diverse range of applications in cutting-edge research laboratories and production environments.

Rice University—Booth 211

6100 Main Street, Mail Stop 126, Houston, Texas 77005, USA; phone: +1-713-348-4880; fax: +1-713-348-5214; email: mary.ann.lebar@rice.edu; website: www.rice.edu.

Riegl USA—Booth 415

7035 Grand National Drive, Suite 100, Orlando, Florida 32819, USA; phone: +1-407-248-9927; fax: +1-407-248-2636; email: mwelky@rieglusa.com; website: www.rieglusa.com. RIEGL USA delivers cutting edge technology in airborne, mobile, terrestrial, and the newest unmanned LiDAR scanning solutions. From purchase, to system integration, as well as training and support, RIEGL USA stands out as a leader in the industry. RIEGL USA: Building Systems, Delivering Performance.

Rigaku Americas Corporation—Booth 437

9009 New Trails Drive, The Woodlands, Texas 77381, USA; phone: +1-281-362-2300; email: michelle.goodwin@rigaku.com; website: www.rigaku.com. Rigaku provides the world's most complete line of XRD and XRF instruments and components for research, testing, industrial process control, and products development. Systems include the MiniFlex benchtop XRD and Supermini 200 benchtop WDXRF systems, the Ultima IV, and SmartLab® multi-purpose diffractometers with SAXS and in-plane capabilities.

Rite in the Rain—Booth 819

2614 Pacific Hwy E., Tacoma, Washington 98424, USA; phone: +1-253-922-5000; fax: +1-253-922-5300; email: ryan@riteintherain.com; website: www.riteintherain.com. Rite in the Rain is a patented, environmentally responsible, all-weather writing paper that sheds water and enables you to write anywhere, in any weather. Rite in the Rain products include field books, notebooks, copier paper, ring binders, loose leaf, and a variety of all-weather writing instruments and carrying cases. Available where quality field gear is sold.

Rock Detective Geoscience Education—Booth 467

14655 Betz Lane, Red Bluff, California 96080, USA; phone: +1-530-529-4890; website: www.rockdetective.org.

Ruen Drilling Inc.—Booth 939

P.O. Box 3315, Clark Fork, Idaho 83811, USA; phone: +1-208-266-1151; fax: +1-208-266-1379; email: rochelle.ruen@ruendrilling.com; www.ruendrilling.com.

San Diego State University—Booth 322

San Diego State University, Dept. of Geological Sciences, 5500 Campanile Drive, San Diego, California 92182, USA; phone: +1-619-594-5586; email: s.tanges@att.net; website: www.sci.sdsu.edu/geology.

Saudi Aramco—Booth 925

9009 West Loop S, Houston, Texas 77096, USA; phone: +1-713-432-4675; fax: +1-713-432-8245; email: tracie.esparza@aramcoservices.com; website: www.aramco.jobs. Saudi Aramco is a world leader in integrated energy and chemicals. We are driven by the core belief that energy is opportunity. We focus on making our resources more sustainable and more useful.

SciAps Inc.—Booth 851

2 Constitution Way, Woburn, Massachusetts 01801, USA; phone: +1-339-927-9455; fax: +1-339-600-3038; email: kmeahl@sciaps.com; website: www.sciaps.com. SciAps field portable products allow a wide variety of diagnostic information to be collected on geological samples. The combination of geochem and mineralogy provides a powerful tool for understanding geological materials in the context of their environment. LIBZ: Laser Induced Breakdown Spectroscopy Testing for Even the Lightest of Elements: Na, Li, C, Mg, N.

selfrag AG—Booth 417

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Yale University, Dept. of Geology and Geophysics—Booth 117

210 Whitney Ave., P.O. Box 208109, New Haven, Connecticut 06511, USA; phone: +1-203-432-3124; fax: +1-203-436-8342; email: peter.schrader@yale.edu; website: earth.yale.edu. The Yale Geology and Geophysics graduate program offers students the opportunity to study and do research in a wide range of cutting-edge and cross-disciplinary areas, including solid earth geophysics; geochemistry; biogeochemistry, paleoceanography and paleoclimate; lithosphere and surface processes; paleontology and evolution; and atmosphere, ocean, and climate dynamics.

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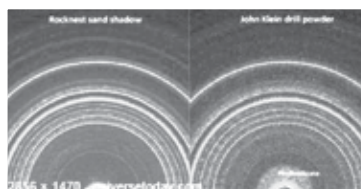
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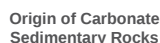
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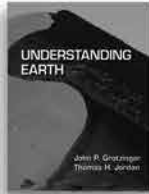
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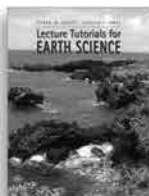
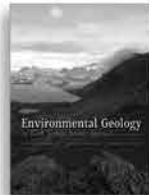
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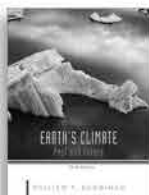
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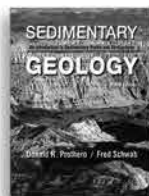
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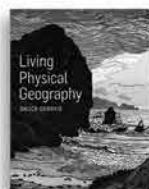
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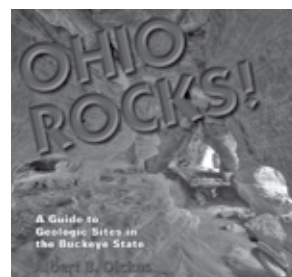
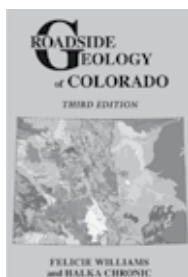
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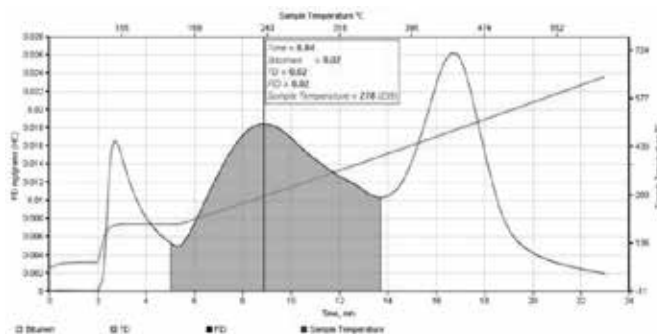
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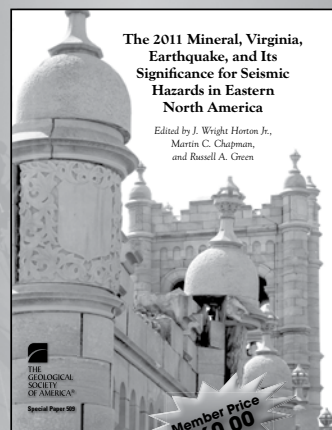
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