Exhibits

The following list of exhibitors is as of press time. Learn more on the Exhibit Hall map at the end of this book.



EXHIBIT HALL HOURS

Indiana Convention Centere, Hall I Sun., 2–7 p.m., with Exhibits Opening Reception: 5:30–7 p.m. Mon.–Tues., 10 a.m.–6:30 p.m. Wed., 10 a.m.–2 p.m.

36th International Geological Congress—Booth 735

C-II, Pushpa Bhawan, Madangir Road, New Delhi, Delhi 110062, India. Phone: +1-+91 8800401010; email: igc.delhi2020@nic.in; 36igc.org. India and its regional partners will host the 36th International Geological Congress in Delhi, India, during 2–8 March 2020 on the theme Geosciences: The Basic Science for a Sustainable Future. The Congress will have 44 geoscientific themes and over 50 field excursions to showcase the geological spectacles of the Indian subcontinent. The Congress will have an impressive GeoExpo by leading global agencies.

AASP - The Palynological Society—Booth 227

11718 Pine Forest Drive, Rolla, MO, 65401, USA. Phone: +1-606-776-1970; fax: +1-606-783-5002; email: ikuenobe@mst .edu; www.palynology.org. Founded in 1967 as the "American Association of Stratigraphic Palynologists," AASP - The Palynological Society (AASP-TPS) was established as a non-profit organization to promote the science of palynology for and on behalf of the public interest. It aims to foster the spirit of scientific research among its members and others engaged in this field of science. Visit Booth 227 and learn how to become a part of this diverse network of scientists.

American Association of Petroleum Geologists (AAPG)— Booth 401

1444 S Boulder Ave., Tulsa, OK, 74119, USA. Phone: +1-918-584-2555; fax: +1-918-560-2665; email: amahan@aapg.org; www.aapg.org. Become part of the world's premier professional association for explorationists, with more than 37,000 members from 125 countries. From students to young professionals, career geoscientists and academicians, there's never a better time to join AAPG.

American Geophysical Union (AGU)—Booth 308

2000 Florida Ave. NW, Washington, DC, 20009. Phone: +1-202-462-6900; email: abouselli@agu.org; www.agu.org.

American Geosciences Institute—Booth 306

4220 King Street, Alexandria, VA, 22302. Phone: +1-703-379-2480; fax: +1-703-379-7563; email: jlilek@americangeosciences .org; www.americangeosciences.org. The American Geosciences Institute (AGI) is a network of associations representing more than a quarter-million geoscientists. Founded in 1948, AGI serves as a voice of shared interests in our profession and serves the geoscience community with programs, products, and services that enrich research, education, the workforce, and public policy.

American Institute of Professional Geologists (AIPG)— Booth 126

1333 West 120th Ave, Suite 211, Westminster, CO, 80234, USA. Phone: +1-303-412-6205; fax: +1-303-253-9220; email: dkc@aipg .org; www.aipg.org. The American Institute of Professional Geologists (AIPG), founded in 1963, is the largest association dedicated to promoting geology as a profession. It has more than 7,000 members in the U.S. and abroad, organized into 36 regional Sections. The Institute adheres to the principles of professional responsibility and public service and is the only international organization that certifies the competence and ethical conduct of geological scientists in all branches of the science.

American Meteorological Society—Booth 318

1200 New York Ave. NW, Suite 500, Washington, DC, 20005. Phone: +1-202-737-1043; fax: +1-202-737-0445; email: amsedu@ ametsoc.org; www.ametsoc.org/amsedu. Join the American Meteorological Society in helping to educate the next generation of atmospheric, oceanic, and climate scientists and professionals by offering introductory, undergraduate-level curriculum packages at your local institution. These packages use real-world data and events to drive learning. Proceeds help train K-12 teachers in these same disciplines.

American Museum of Natural History—Booth 233

Central Park West at 79th, New York, NY, 10024. Phone: +1-212-313-7464; email: mat@amnh.org; www.amnh.org/mat. Apply today to the Master of Arts in Teaching (MAT) Earth Science Residency program at the Richard Gilder Graduate School at the American Museum of Natural History—the first urban teacher residency program offered by a museum. All degree candidates receive free tuition and a \$30,000 living stipend and commit to teaching in a high-need school in New York State for 4 years. Visit us at www.amnh.org/mat.

ASC Scientific—Booth 418

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

Association for Women Geoscientists—Booth 549

1333 West 120th Ave, Suite 211. Westminster, CO, 80234. Phone: +1-303-412-6219; fax: +1-303-253-9220; email: office@awg.org; www.awg.org. The Association for Women Geoscientists (AWG) encourages the participation of women in the geosciences, enhances professional development of worm 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) / Maryland Geological Survey Dept. of Natural Resources—Booth 124 2300 Saint Paul Street, Baltimore, MD, 21218. Phone: +1-434-951-6350; fax: +1-434-951-6366; email: richard.ortt@maryland.gov; www.stategeologists.org.

Association of Earth Science Editors (AESE)—Booth 103

650 W. Montecito Way, San Diego, CA, 92103-1975. Phone: +1-619-297-0798; email: geologycarole@gmail.com; www.aese .org. AESE consists of editors, journal managers, and others involved with publication in the Earth sciences. Its purpose is to facilitate cooperation among editors and to promote effective dissemination of Earth Science Information. AESE maintains liaisons with AGI, AAAS, CSE, EASE, and GSA Membership benefits include a subscription to AESE's quarterly digital newsletter, the Blueline, and access to a members-only listserv and jobs board.

Association of Environmental & Engineering Geologists (AEG)—Booth 719

201 E Main Street, Suite 1405, Lexington, KY, 40507. Phone: +1-859-514-9175; email: manager@aegweb.org; www.aegweb.org. The Association of Environmental & Engineering Geologists (AEG) contributes to its members' professional success and the public welfare by providing leadership, advocacy, and applied research in environmental and engineering geology. Learn more about us at www.aegweb.org.

Auburn University Dept. of Geology + Geography—Booth 135 210 Petrie Hall, Auburn, AL, 36849. Phone: +1-334-844-4000, email: lewisrd@auburn.edu; www.auburn.edu.

Ball State University—Booth 138

Dept. of Geological Sciences, Muncie, IN, 47306-0475. Phone: +1-765-285-8267; fax: +1-765-285-8265; email: rfluegem@bsu.edu;

www.bsu.edu/geology. Geological Sciences at Ball State offers the MS and MA (non-thesis) degrees. Concentrations include basin analysis, biostratigraphy, economic geology, environmental geoscience, geochemistry, geomorphology, geohydrology, karst systems, igneous petrology, tectonics, and volcanology. The department participates in an interdisciplinary Ph.D. program in Environmental Science.

Baylor University—Booth 419

One Bear Place #97354, Dept. of Geology, Waco, TX, 76798. Phone: +1-254-710-2361; fax: +1-254-710-2673; email: paulette_penney@baylor.edu; www.baylor.edu/geology.

Beckman Coulter Inc.—Booth 119

5350 Lakeview Parkway South Drive, Indianapolis, IN, 46268. Phone: +1-800-742-2345; email: ladahlgren@beckman.com; www.beckman.com. New LS13320XR High-Resolution Particle Size Analyzer. A high-resolution, automodal particle size analyzer system capable of measuring dry samples without the need for destructive and unsafe compressed air. The LS13320XR joins our family of high-resolution laser diffraction particle size analyzers offering a variety of sizing ranges and sample delivery options.

Beta Analytic Inc.—Booth 619

4985 SW 74th Court, Miami, FL, 33155. Phone: +1-305-667-5167; fax: +1-305-663-0964; email: cpatrick@radiocarbon.com; www.radiocarbon.com. ISO 17028-accredited Beta Analytic Inc. is a dedicated Radiocarbon dating (AMS) laboratory with standard turnaround time of 14 business days or less. All analyses are performed in-house. Results are accessible 24/7 via web and mobile access.

Blue Marble Geographics—Booth 801

22 Carriage Lane, Hallowell, ME, 04347. Phone: +1-207-622-4656; email: jessicav@bluemarblegeo.com; www.bluemarblegeo.com. Since the early 1990s, Blue Marble Geographics has been a pioneer in the development of powerful and innovative geospatial software. Widely regarded for its expertise in coordinate conversion and file format support, Blue Marble's products include Geographic Calculator and Global Mapper, a fully-functional and inexpensive GIS application.

Bruker Corporation—Booth 609

5465 E Cheryl Pkwy., Madison, WI, 53711. Phone: +1-608-276-3000; fax: +1-608-276-3006; email: kodi.morton@bruker.com; www.bruker-axs.com. Bruker offers advanced solutions to reliably support geologists and mining prospectors on locating and analyzing deposits anytime and anywhere. Bruker's instruments can be found at an altitude of 4,000 meters or in baking-hot deserts—reliably delivering high end analysis quickly and onsite.

Brunton Outdoor Group—Booth 509

2255 Brunton Court, Riverton, WY, 82501. Phone: +1-307-857-4700; fax: +1-307-857-4702; email: lisa.beres@bruntongroup.com; www.bruntongroup.com.

Cambridge University Press—Booth 415

1 Liberty Plaza, New York, NY, 10006. Phone: +1-212-924-3900; fax: +1-212-691-3239; email: kramphal@cambridge.org; www.cambridge.org/us.

CAMECA—Booth 535

5470 Nobel Drive, Fitchburg, WI, 53711. Phone: +1-608-229-1486; email: steve.foldvari@ametek.com; www.cameca.com. CAMECA is a world leading supplier of microanalytical and metrology instrumentation for research and process control in semiconductor, nanotechnology and advanced materials, nuclear science, green energy, biology, environment, mining, and geology markets. Our instruments measure elemental and isotopic composition at atomic resolution and drive research in government and university labs as well as high-tech industrial companies around the world.

Carl Zeiss X-ray Microscopy Inc.—Booth 214

4385 Hopyard Road, Pleasanton, CA, 94588. Phone: +1-925-701-3524; email: maria.holdsworth@zeiss.com; www.zeiss.com/geosciences.

Cengage—Booth 536

303 Second Street, Suite S500, San Francisco, CA, 94107. Phone: +1-845-587-1813; www.cengage.com/unlimited. Cengage Learning is the education and technology company built for learners. Our industry-leading initiatives include Cengage Unlimited, the first-of-its-kind all-access digital subscription service. We embrace innovation to create learning experiences that build confidence and momentum toward the future students want. Visit us at www .cengage.com or find us on Facebook or Twitter.

Center for Applied Isotope Studies, University of Georgia— Booth 110

120 Riverbend Road, Athens, GA, 30602. Phone: +1-706-248-5927; email: dvoracek@uga.edu; cais.uga.edu. The Center for Applied Isotope Studies (CAIS) was founded in 1968 at the University of Georgia. The 2,200 m² facility provides researchers with measurements of stable isotopes, radiocarbon (14C), and radiogenic isotope ratios and elemental concentrations for geological, archaeological, environmental, and biomedical research. We are ISO/IEC 17025:2005 accredited for 14C and light stable isotopes (H, C, N, and O).

Central Michigan University—Booth 344

314 Brooks Hall, Mount Pleasant, MI, 48858. Phone: +1-998-774-1144; www.cmich.edu/colleges/cst/earth_atmos. Geology faculty from the Central Michigan University Dept. of Earth and Atmospheric Sciences will be available to meet with prospective graduate students at Booth 344. Graduate Research and Teaching Assistantships are available to support outstanding students in the Earth and Ecosystem Science (EES) doctoral program. EES at CMU employs a systems-level approach to evaluate the physical, chemical, geological and biological structure and function of various natural environments.

Chesapeake Energy—Booth 117

6100 N Western Ave., Oklahoma City, OK. Phone: +1-405-935-6635; www.chk.com. With top positions in unconventional, onshore oil and natural gas plays in the U.S., Chesapeake is one of America's most innovative and exciting exploration and production companies. We are focused on generating the most value from our assets and operating responsibly to protect our stakeholders and the environment.

Colorado School of Mines, Dept. Geology & Geology Engineering—Booth 144

1516 Illinois Street, Golden, CO, 80401. Phone: +1-303-273-3800; email: cmedford@mines.edu; www.mines.edu. Masters and doctoral programs prepare students for academic research & careers in petroleum & minerals exploration, hydrology, & engineering geology.

Consortium of Universities for the Advancement of Hydrologic Science Inc. (CUAHSI)—Booth 701

150 Cambridge Park Drive, Suite 203, Cambridge, MA, 02140. Phone: +1-339-933-4132; fax: +1-339-674-3000; email: etran@cuahsi.org; www.cuahsi.org. CUAHSI is a non-profit organization that represents more than 140 academic institutions and affiliate members, and provides programs and services which support the advancement of interdisciplinary water science.

Council on Undergraduate Research—Booth 105

734 15th Street, NW, Suite 550, Washington, DC, 20005. Phone: +1-202-783-4810; fax: +1-202-783-4811; email: petersvi@gvsu.edu; www.cur.org. The Council on Undergraduate Research promotes high-quality undergraduate student-faculty collaborative research. Stop by booth #105 to learn about CUR faculty and student awards, professional development, publications, and membership.

Cushman Foundation for Foraminiferal Research—Booth 222

810 E 10th Street, Lawrence, KS, 66044. Phone: +1-713-955-6971; email: cpletka@gmail.com; cushmanfoundation.allenpress.com. The Cushman Foundation for Foraminiferal Research Inc. was founded "to promote research on foraminifera and allied organisms." The Foundation publishes research in its journal and a growing series of Special Publications. Each year, multiple awards are awarded to students, as well as a professional award. The Foundation also sponsors the Cushman Symposia at the GSA Annual Meeting on timely topics of foraminiferal research.

Dino-Lite Scopes (BigC)—Booth 433

19803 Hamilton Ave. Suite 200, Torrance, CA, 90502-1341. Phone: +1-310-618-9990; fax: +1-877-978-2787; email: events@dunwell .com; www.dinolite.us. Dino-Lite portable digital microscopes and eyepiece cameras provide high-quality microscopy video interfacing to PC and MAC. Most models provide 10x–220x magnification with features such as measurement and adjustable polarizer. The included software makes it easy to take snapshots, record videos, manipulate images, save and email discoveries.

DirectAMS—Booth 326

11822 North Creek Pkwy N, Suite 107, Bothell, WA, 98011. Phone: +1-425-481-8122; email: alyssa@directams.net; www .directams.net. DirectAMS provides high precision radiocarbon dating services for applications in Geology, Climate Science, Anthropology, Archaeology, and more. We process samples in a dedicated tracer-free facility, and obtain dates using our accelerator mass spectrometer (AMS) designed specifically for radiocarbon. We are proud to offer the most affordable radiocarbon dating services in the industry, enabling scientists to more fully describe sites of interest and generate detailed chronologies.

Earth Sciences, The Ohio State University—Booth 636 125 S. Oval Mall, Columbus, OH, 43210. Phone: +1-614-292-7230; www.osu.edu.

EarthScope—Booth 708

2156 Koyukuk Drive, Office 501D, P.O. Box 757320, Fairbanks, AK, 99775-7320. Phone: +1-907-474-2700; email: uaf-earthscope@alaska.edu; www.earthscope.org. EarthScope is an NSF-funded program that has deployed thousands of seismic, GPS, and other geophysical instruments to study the structure and evolution of the North American continent and the processes that cause earthquakes and volcanic eruptions. It involves collaboration between scientists, educators, policy makers, and the public to learn about and apply exciting scientific discoveries as they are made.

East Carolina University—Booth 336

127 Flanagan Bldg., Greenville, NC, 27858. Phone: +1-252-328-2114; fax: +1-252-328-1618; email: culvers@ecu.edu; www.ecu.edu.

Elementar Americas Inc.—Booth 114

119 Comac Street, Ronkonkoma, NY, 11779. Phone: +1-856-787-0022; fax: +1-856-787-0055; email: steve.sharp@ elementaramericas.com; www.elementarAmericas.com. Stable Isotope Analyzers that fit your lab and budget but still outperform the competition.

Elsevier—Booth 810

Radarweg 29, Amsterdam, North Holland 1043NX, Netherlands. Phone: +0031204853899; email: k.rietveld@elsevier.com; www.elsevier.com. Elsevier is a global information analytics business, serving the research needs, of educators, researchers & students worldwide. We are proud to play an integral part within the Geoscience community and to participate in the advancement of the field.

Environmental Isotope Laboratory—Booth 319

263 Phillip Street, Waterloo ON N2L 3W8, Canada. Phone: +1-519-888-4567; email: rkhmskrk@uwaterloo.ca; www.uwEILab.ca. The University of Waterloo Environmental Isotope Laboratory (uwEILab) develops and applies isotope technology to the Environment. The uwEILab offers isotope analysis including hydrogen (2H, 3H), carbon (13C, 14C), nitrogen (15N), oxygen (18O), sulphur (34S), chlorine (37Cl), bromine (81Br) and strontium (87Sr/86Sr) for a wide variety of applications. We are an innovative modern research facility with an international client base including universities, government agencies and consulting firms.

Estwing Mfg. Co.—Booth 200

2647 8th Street, Rockford, IL, 61109. Phone: +1-815-397-9558; fax: +1-815-397-8665; email: amagee@estwing.com; www.estwing .com. For over ninety years, Estwing has taken pride in designing and manufacturing the finest American made hand tools. Our rock picks and axes are forged in one piece of solid American steel to last a lifetime. The handles are available with our patented Shock Reduction Grip, which reduces the vibrations caused by impact. These are tools you will use and then hand down to the next generation.

European Geosciences Union (EGU)—Booth 539

EGU Executive Office Luisenstr. 37, Munich 80333, Germany. Phone: +49 89 2180 6549; fax: +49 89 2180 17855; email: info@ egu.eu; www.egu.eu. The European Geosciences Union (EGU) is, with over 15,000 members, Europe's premier geosciences union. It

is dedicated to the pursuit of excellence in the earth, planetary, and space sciences for the benefit of humanity. The 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 639

301 Brushton Avenue, Suite A, Pittsburgh, PA, 15221. Phone: +1-412-436-2600; email: info@fieldenvironmental.com; www.fieldenvironmental.com. FEI maintains a comprehensive stock of environmental equipment and instruments for rent and sale. Rental orders are provided to customers one day prior to the rental start date—for free. Every branch maintains a stock of supplies and disposables. Ask about our complete solution for Remote, Real-Time Field Data Collection, and Miniaturized Down Hole Well Profiling.

Florida International University—Booth 239

Dept. of Earth and Environment 11200 SW 8th Street, AHC5-360, Miami, FL, 33199. Phone: +1-305-348-1930; email: hickey@fiu.edu; www.fiu.edu.

Florida State University Dept. of Earth, Ocean & Atmospheric Science—Booth 348

1017 Academic Way, Tallahassee, FL, 32306. Phone: +1-850-644-2703; email: sayoung2@fsu.edu; www.eoas.fsu.edu.

Gems & Crystals Unlimited—Booth 506

P.O. Box 18997, Atlanta, GA, 31126-0097. Phone: +1-404-760-0027; email: jeweler@mindspring.com. Customized gold and platinum jewelry. Complete custom work, including engagement, anniversary and any special celebrations for you! Outstanding collection of gemstones, diamonds, rubies, sapphires, emeralds, tanzanite, etc. Great collection of Art Deco and other antique jewelry in gold, platinum and silver, cameos, cufflinks, pins and collectibles. Also available are crystals and minerals of excellent quality and price.

GeoAvatar—Booth 123

1901 West 23rd Street, #3363, Lawrence, KS, 66046. Phone: +1-865-771-2819; email: gbaker@geoavatar.com; www.geoavatar.com. GeoAvatar Drone Solutions. Conducting sUAS (drone) missions for testing critical hypotheses in the Earth sciences. Led by a University of Kansas alumnus and former University of Tennessee professor, GeoAvatar provides prompt, accurate, visually-impactful sUAS (drone) results to clients. Over three decades of field-based research in geophysical imaging provide a solid foundation for articulating project objectives while simultaneously operating with the cutting edge in hardware and software.

Geochemical Society—Booth 108

5241 Broad Branch Road NW, Washington, DC, 20015. Phone: +1-202-545-6928; email: kjohnson@geochemsoc.org; www .geochemsoc.org. The Geochemical Society encourages the application of geochemistry to improving our understanding of Earth and the solar system. We support the international community of geochemists through the annual Goldschmidt Conference, publication of a peer-reviewed journal and electronic newsletter, awards programs recognizing significant accomplishments in the field, and student development programs.

Geocognition Research Lab—Booth 315

207 Natural Science Road, East Lansing, MI, 48824. Email: libarkin@msu.edu; www.geology.msu.edu.

Geological Association of Canada—Booth 106

Dept. of Earth Sciences, Memorial University, 300 Prince Phillip Drive, St. Johns, NL, A1B 3X5, Canada. Phone: +1-709-864-7660; fax: +1-709-864-2532; email: kfmdawe@mun.ca; www.gac.ca.

Geological Society of America Foundation—Booth 723

3300 Penrose Place, Boulder, CO, 80301. Phone: +1-303-357-1013; email: info@geosociety.org; www.gsafweb.org. Come test your rock knowledge and be entered to win a prize! The Geological Society of America Foundation develops and provides funds to support the goals and programs of the Geological Society of America. These funds are distributed according to the needs of the Society and in a manner consistent with the desire of the donors.

Geophysical Survey Systems Inc. (GSSI)—Booth 328

40 Simon Street, Nashua, NH, 03060. Phone: +1-603-893-1109; fax: +1-603-889-3984; email: lighthallj@geophysical.com; 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.

Geoscience Information Society (GSIS)—Booth 635

1 University Circle Leslie Malpas Library 415, Macomb, IL, 61455. Phone: +1-309-298-2723; fax: +1-309-298-2791; email: lr-zellmer@ wiu.edu; www.wiu.edu. The Geoscience Information Society (GSIS) promotes access to and exchange of geoscience and science information through cooperation between scientists, editors, cartographers, educators, information professionals, academia, industry, state and Federal government agencies, librarians and the public. Booth highlights geoscience information literacy: finding and evaluating information and intellectual property basics. URL: http://www.geoinfo.org or contact info@geoinfo.org.

GeoScienceWorld—Booth 633

1750 Tysons Boulevard, Suite 1500, McLean, VA, 22102. Phone: +1-703-677-3117; fax: +1-703-379-7563; email: anderson@geoscienceworld.org; www.geoscienceworld.com. GeoScienceWorld (GSW) is a nonprofit collaborative and comprehensive Internet resource for research and communications in the earth sciences, which is built on a core database of peer-reviewed journals integrated with the GeoRef index and eBooks. The organization gives global researchers a single point of access to 46 full-text scholarly journals from 28 publishers, 2,000 plus eBooks from 11 publishers, and almost 4 Million GeoRef records, all with specialized searching capabilities, an innovative split screen presentation of articles and chapters, and links to millions of relevant resources hosted elsewhere on the Web.

GeoSep Services—Booth 125

1521 Pine Cone Road, Moscow, ID, 83843. Phone: +1-208-596-6237; email: lab@geoseps.com; www.geoseps.com. GeoSep Services (GSS) provides high-quality mineral separations along with apatite and zircon geochronology/ thermochronology analyses. Located in Moscow, Idaho, we assist geoscientists around the

world with their research. Please stop by our booth, meet the crew, and learn about the services we provide.

GIA (Gemological Institute of America Inc.)—Booth 207

5345 Armada Drive, Carlsbad, CA, 92008. Phone: +1-760-603-4000; fax: +1-760-603-4080; email: paula.rucinski@gia.edu; www.gia.edu. Established in 1931, GIA protects the public through gemological research, education, impartial gem identification and grading services, and instrument development. The world's foremost authority in gemology, GIA sets the standard for determining the qualities of diamonds, colored stones, gems, and pearls. As an independent nonprofit organization, GIA's activities are governed by its mission to serve the public.

GSA Bookstore—Booth 321

3300 Penrose Place, Boulder, CO, 80301; www.geosociety.org. Browse through GSA's latest books and products, including the 2018 field guide. Leaf through newly published books and some tried-and-true favorites. You can also buy Rite in the Rain products and the ever-popular, updated Geologic Time Scale poster.

GSA Environmental and Engineering Geology Division— Booth 821

3300 Penrose Place, Boulder, CO, 80301. Phone: +1-360-742-9103; email: stephen.slaughter@dnr.wa.gov. The Environmental and Engineering Geology Division (EEGD) of the Geological Society of America (GSA) is the oldest engineering geology organization in the United States. In 2013 we added "Environmental" to our name to reflect the importance and growth of environmental geology.

GSA Geochronology Division—Booth 825

5088 Orchard Court, Golden, CO, 80403. Phone: +1-303-475-9697, email: leahetgmorgan@gmail.com; community.geosociety.org/communities/community-home?CommunityKey=418a55a2-5927-4329-9eb0-ce217270d3fd. The GSA Geochronology Division aims to bring together scientists interested in geochronology, to provide a suitable forum for presentation and discussion of problems and opportunities in geochronology, to stimulate research and teaching in geochronology, and to act as an organized group in promoting these objectives within the framework of the Geological Society of America.

GSA Geoinformatics Division—Booth 705

Denver Federal Center, MS 302, Box 25046, Denver, CO, 80225. Phone: +1-303-202-4080; email: lhsu@usgs.gov; community .geosociety.org/geoinformaticsdivision/home. The GSA Geoinformatics Division advances "Data to Knowledge," providing GSA members with an opportunity to participate in the field of cyberinfrastructure. Come learn about tools, projects, resources, and other organizations that help us maximize the value of our geo-data and information.

GSA History & Philosophy of Geology Division—Booth 543 3300 Penrose Place, Boulder, CO, 80301; www.gsahist.org.

GSA International—Booth 829

3300 Penrose Place, Boulder, CO, 80301. Phone: +1-303-357-1090; email: nkhandaker@york.cuny.edu; www.geosociety.org/GSA_International/index.htm. Geological Society of America (GSA) International and Interdisciplinary Interest Group (IIG) are

working in unison to promote GSA's globalization theme, create scientific and educational opportunities and seek greater participation of international colleagues and GSA members who live outside North America.

GSA Karst Division—Booth 111

1906 College Heights Blvd., Bowling Green, KY, 42101. Phone: +1-208-426-5905; email: jason.polk@wku.edu.

GSA Membership—Booth 623

3300 Penrose Place, Boulder, CO, 80301; email: pkilner@geosociety.org; www.geosociety.org. Renew your 2019 membership, journal subscriptions, divisions, and consider making a contribution to the GSA Foundation. Get 15% off membership dues (applies to those in high-income country economies) plus a free gift. Stop by and find out more about GSA programs and opportunities.

GSA Opportunities—Booth 525

3300 Penrose Place, Boulder, CO, 80301. Phone: +1-303-357-1013; email: wcox@geosociety.org; www.geosociety.org. Learn about GSA's opportunities including education, scholarships, field experiences, grants, and policy programs. Featured opportunities include: GeoCorps™ America, Geoscientists-In-the-Parks (GIP), Research Grants, On To the Future (OTF), Bighorn Basin Field Award, Field Camp Scholar Award, GeoTeachers, Minority Scholarships, the EarthCache program, and the GSA Science Policy Fellowship.

GSA Sedimentary Geology Division—Booth 815

98 Beechurst Ave., Morgantown, WV, 26501. Phone: +1-304-293-6721; email: amy.weislogel@mail.wvu.edu; community.geosociety.org/sedimentarygeologydiv/home.

GSA Soils and Soil Processes Division—Booth 823

3300 Penrose Place, Boulder, CO, 80301-1806. Phone: +1-607-287-9420; email: balogh_brunz@hartwick.edu; community.geosociety .org/soilsdivision/home. GSA's Soils and Soil Processes Division focuses on the geologic aspects of soil science investigating both present and past (paleo) soils, subsurface processes that for example link hydrology, mineralogy, sedimentology, quaternary sciences, and societal issues such as food security, water quality, groundwater recharge, and paleoenvironmental proxies. Information about the division, sponsored events, and sessions can be found at the booth.

Hitachi High-Tech Analytical Science—Booth 732

300 Baker Ave., Suite 150, Concord, MA, 01742. Phone: +1-978-405-1139; email: jason.pham@oxinst.com; www.hitachi-hightech .com/hha. We are a leading manufacturer of field-deployable X-ray Fluorescence (XRF) analyzers. We make it possible to bring the lab to the sample for cutting, mine face and in situ analysis of soils, minerals and rock material required for better decision making during excavation and exploration.

IDS GeoRadar—Booth 533

14828 West 6th Ave., Unit 12-B, Golden, CO, 80401. Phone: 1-303-947-3877; fax: +1-303-947-3877; email: cody.stopka@idsgeoradar.com; www.idsgeoradar.com/products/interferometric-radar. IDS GeoRadar is a world leading developer of slope monitoring radars designed for real-time evaluation and

characterization of slopes and structures. Based on microwave interferometry, submillimeter displacement can be measured up to four kilometers distance to identify areas of risk and hazard. What can be measured can be managed with IDS GeoRadar.

IKON Mining & Exploration—Booth 309

P.O. Box 2620, Fallbrook, CA, 92088. Phone: +1-760-723-3484; fax: +1-760-723-3984; email: ikonmining@gmail.com. IKON Mining is a purveyor of fine Minerals & Fossils from around the world—there are specimens for the beginner, as well as the advanced collector. We also have Meteorites, ancient Artifacts, artisan-crafted Jewelry, and a wide variety of nature-related gifts. We provide Executive Gifts for the discriminating company that wants to distinguish themselves from the competition. Everything is hand-selected by our team of experts. Stop on by!

Illinois State University—Booth 447

Dept. of Geography, Geology, and the Environment, Normal, IL, 61790. Phone: +1-309-438-7865; fax: +1-309-438-5310; geo illinoisstate.edu. The Master of Science in Hydrogeology program equips students with the tools needed for a successful career in hydrogeology. Students have the opportunity to explore interests within almost any aspect of the hydrologic cycle, including surface water-groundwater interaction, nutrient cycling, impacts of humans and global change in hydrologic and systems, and flow in karst systems.

Indiana Geological & Water Survey—Booth 702

611 N Walnut Grove Ave., Bloomington, IN, 47405. Phone: +1-812-855-7636; fax: +1-812-855-2862; email: IGSinfo@indiana.edu; igws.indiana.edu. The mission of the Indiana Geological & Water Survey is to provide geologic information and counsel that contribute to the health, safety, and welfare of Indiana's citizenry. Since 1837, the Indiana Geological & Water Survey has provided information for the wise stewardship and sustainable use of the energy, mineral, and water resources of the state.

Indiana State University—Booth 436

Dept. of Earth & Environmental Systems, 159 Science Building, Terre Haute, IN, 47809. Phone: +1-812-237-2259; email: Sandra.Brake@indstate.edu; www.indstate.edu/cas/ees/. The Dept. of Earth and Environmental Systems provides students with the opportunity to explore a wide range of environmental, earth, and human systems. The department offers environmentally focused interdisciplinary degrees as well as traditional training in anthropology, geography, and geology. The department emphasizes experiential learning and facilitates student engagement in research.

Indiana University—Booth 127

1001 E 10th Street, Room 129, Bloomington, IN, 47405. Phone: +1-812-855-0661; fax: +1-812-855-5102; email: pchrist@indiana.edu; www.indiana.edu.

Indiana University-Purdue University Indianapolis— Booth 335

723 W Michigan Street, Room SL 118, Indianapolis, IN, 46202. Phone: +1-317-274-7484; email: cjchouin@iupui.edu; www.iupui.edu. The Dept. of Earth Sciences invites application for M.S. in Geology and Ph.D. in Applied Earth Sciences for advanced interdisciplinary research at the interface of earth and environmental sciences, public health, and geospatial analysis.

Indiana University Press—Booth 832

Herman B Wells Library #350, Bloomington, IN, 47405. Phone: +1-812-855-4773; fax: +1-812-856-0415; email: dunhamg@indiana.edu; iupress.indiana.edu. We are recognized internationally as a leading academic publisher specializing in the humanities and social sciences. The Press emphasizes scholarship but also publishes text, trade, and reference titles. Our exhibit will be showcasing books from our paleontology lineup. All books will be listed at a discount for GSA!

International Association for Geoscience Diversity (IAGD)—Booth 532

2610 McMicken Circle 511E TDC, Cincinnati, OH, 45221-0022. Phone: +1-937-623-3386; email: christopher.atchison@uc.edu; www.theiagd.org. The IAGD is focused on inclusive scientific communities of teaching, learning, and research, by leading the development and implementation of accessible and inclusively-designed classroom, laboratory, and field-based instruction that minimize the barriers to full participation for students, faculty, and geoscience practitioners with disabilities.

International Centre for Diffraction Data (ICDD)—Booth 716

12 Campus Blvd., Newtown Square, PA, 19073. Phone: +1-610-325-9814; fax: +1-610-325-9823; email: hish@icdd.com; 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, PDF-4/Organics, and the new PDF-4/Axiom. PDF-4/Minerals 2019 currently features 46,101 entries.

Iowa State University—Booth 339

253 Science, Ames, IA, 50011. Phone: +1-515-294-4477; fax: +1-515-294-6049; email: dfrisk@iastate.edu; www.iastate.edu.

IRIS Consortium—Booth 710

1200 New York Ave. NW, Suite 400, Washington, DC, 20005. Phone: +1-202-682-2220; email: dorr@iris.edu; www.iris.edu. IRIS, a university consortium funded by NSF, is a world leader in advancing discovery, research, and education in seismology to understand our planet and to benefit society. IRIS operates global seismic networks, portable seismic instrumentation, and data access facilities and provides FREE educational resources for faculty and teachers, students, and the general public.

Isomass Scientific Inc.—Booth 300

#140, 5700 1st Street SW, Calgary AB T2H 3A9, Canada. Phone: +1-403-255-6631; fax: +1-403-255-6958; email: peter.stow@ isomass.com; www.isomass.com. Isomass Scientific Inc. is an independent, full service company that has served Canadian and American scientists since 1981. Our business revolves around supplying well proven, world class scientific instruments and providing the support required by our customer to obtain the very best of analytical results. With our partners we provide Instruments, Consumables, parts, Service and Training for all of the instruments we provide and those from many other manufacturers as well.

Isotopx Inc.—Booth 632

12 Pinewood Lane, Hudson, OH, 44236. Phone: +44 (0) 1606 839810; fax: +1-508-337-8467; email: steve.shuttleworth@isotopx.com; www.isotopx.com.

Kansas State University—Booth 347

Dept. of Geology, Manhattan, KS, 66506. Phone: +1-785-532-6724; 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.

KFUPM—Booth 136

KFUPM, P.O. Box 5070, Dhahran Eastern Province, Saudi Arabia. Phone: +966-3-860-7937; email: ybotwaibah@kfupm.edu.sa; cpg.kfupm.edu.sa. The College of Petroleum Engineering & Geosciences (CPG) has merged three legacy units at King Fahd University of Petroleum & Minerals (KFUPM): Petroleum Engineering, Earth Sciences, and the Research Center for Petroleum and Minerals. CPG is the result of a multi-faceted university-industry collaboration between KFUPM and Saudi Aramco.

Komodo Dragon—Booth 400

P.O. Box 1490, The Dalles, OR, 97058. Phone: +1-541-478-2112; email: komodo@komododragon.com; komododragon.com. Komodo Dragon returns for our 30th year supporting GSA!! We have a great selection of top-quality, affordable fossils and minerals, geological home decor items, educational earth science kits, and lab specimens. We also offer an outstanding collection of unique handcrafted jewelry featuring unusual gemstones set in sterling silver and gold.

LacCore / CSDCO—Booth 202

500 Pillsbury Drive SE, Minneapolis, MN, 55455. Phone: +1-612-626-7889; fax: +1-612-626-7750; email: amyrbo@umn.edu; www.laccore.org.

Lake Shore Cryotronics—Booth 816

575 McCorkle Blvd., Westerville, OH, 43082. Phone: +1-614-891-2243; fax: +1-614-818-1600; email: cosmin.radu@lakeshore.com; www.lakeshore.com. Lake Shore Cryotronics offers highly sensitive, electromagnet-based VSMs for quickly characterizing magnetic properties of materials over a wide temperature range and fields to 3.42 T, as well as magnetic test instrumentation (gaussmeters, fluxmeters, and the new F71/F41 teslameters, which offer a new level of measurement precision, convenience, and dependability).

Little River Research & Design—Booth 201

550 N. University Ave., Carbondale, IL, 62901. Phone: +1-618-529-7423; fax: +1-618-529-0927; email: info@emriver.com; www.emriver.com. Little River Research & Design builds innovative movable-bed river process geomodels and flumes for hands-on teaching and research. Teach and explore river dynamic principles in our Emriver geomodels, or study hydraulics and sediment transport up close in our Emflumel. Our models are uniquely trouble-free, easy to use, and portable.

LSU Dept. of Geology & Geophysics—Booth 346

E235 Howe-Russell, Baton Rouge LA 70803. Phone: +1-225-578-3426; email: geology@lsu.edu; www.lsu.edu/science/geology/. The Dept. of Geology & Geophysics at LSU has an international presence in educating and preparing students for careers in the geosciences. Our continued success is derived from the experience of our dedicated faculty along with campus collaborations with petroleum engineering, coastal and environmental studies, and computational technology. Our students enjoy the benefits of studying at a comprehensive research university combined with the unique atmosphere that only Louisiana can provide.

Macmillan Learning—Booth 703

One New York Plaza, New York, NY, 10004-1562. Phone: +1-212-375-7000; email: theresa.moynahan.contractor@macmillan.com; www.macmillanlearning.com/catalog. Macmillan Learning/W.H. Freeman publishes materials for a wide array of geology courses in a higher education setting. Stop by our booth to see some of our most popular texts and lecture tutorials, browse our catalog, and order exam copies. Interested in digital? See LearningCurve adaptive quizzing in action and check out our interactive e-Books.

MALA Geoscience USA—Booth 218

465 Deanna Lane, Charleston, SC, 29492. Phone: +1-843-852-5021; email: aon@malags.com; www.malags.com. Through our world leading brands of geophysical equipment, ABEM and MALÅ, we offer best-in-class integrated end-to-end solutions to challenges worldwide. With a truly global footprint we draw on extensive experience since 1923 of innovative, field-tested and trusted solutions including: TEM, GPR, Resistivity, and Seismics.

Martin Microscope Company—Booth 443

207 S. Pendleton Street, Easley, SC, 29640. Phone: +1-864-242-3424; email: sales@martinmicroscope.com; www.martinmicroscope.com. Martin Microscope Company is a leading supplier of microscopes and digital microscopy equipment, in business for over 70 years! Our many years of experience and large inventory enable us to provide the best combination of quality and affordability to our customers. Please visit our website, www.martinmicroscope.com, and click the GSA icon to get an overview of the products we'll be demonstrating at this year's conference.

McGraw-Hill Education—Booth 607

Two Penn Plaza, 21st Floor, New York, NY, 10121-2298. Phone: +1-646-766-2268; fax: +1-646-766-2604; email: ginamarie .martinez@mheducation.com; www.mheducation.com. McGraw-Hill Education is driven by a vision to help unlock the full potential of each learner. As a learning science company, research and data provide the foundation for the decisions we make, the resources we create and the partnerships we seek to build with educators, schools, colleges and students.

Meiji Techno America—Booth 818

5895 Rue Ferrari, San Jose, CA, 95138.

Miami University—Booth 146

250 S. Patterson Ave., 118D Shideler Hall, Oxford, OH, 45056. Phone: +1-513-529-3216; miamioh.edu/cas/academics/departments/geology/. Miami's Dept. of Geology and Environmental Earth Science offers three programs for advanced study (Ph.D., M.S. and

M.A.). Both the Ph.D. and the M.S. degrees require a substantial component of research culminating in a dissertation or thesis, respectively. The M.A. is a non-thesis degree.

Micropaleontology Press—Booth 226

6530 Kissena Blvd., Flushing, NY, 11367. Phone: +1-718-570-0505; fax: +1-718-570-0506; email: dignes@micropress.org; www micropress.org. Micropaleontology Press exists to further the growth and usefulness of micropaleontology, improve its standards of nomenclature, disseminate information and publish articles related to micropaleontology, establish peer-reviewed research projects, provide technical support to public databases, and conduct lectures, symposia, outreach, and exhibitions related to the discipline, among other activities.

Midwest GeoSciences Group—Booth 707

1950 East Greyhound Pass, Carmel, IN, 46033. Phone: +1-763-607-0092; email: dan@midwestgeo.com.

Millersville University—Booth 249

P.O. Box 1002, Dept. of Earth Sciences, Millersville, PA, 17551. Phone: +1-717-871-7434; fax: +1-717-871-7918; email: Richard .Clark@millersville.edu; www.millersville.edu/esci. Dept. of Earth Sciences is celebrating its 50th Anniversary. We offer programs leading to B.S. degrees in GEOLOGY, OCEAN SCIENCES, and METEOROLOGY, and M.S. degrees in Integrated Scientific Applications (e.g. geoinformatics) and Emergency Management.

Mineralogical Association of Canada—Booth 104

490, rue de la couronne, Quebec, QC, G1K 9A9, Canada. Phone: +1-418-653-0333; fax: +1-418-653-0777; email: johanne.caron@ ete.inrs.ca; www.mineralogicalassociation.ca. We are a non-profit scientific organization founded in 1955, whose mission is to promote and advance the knowledge of mineralogy and its allied disciplines. We publish *The Canadian Mineralogist*, a journal benefiting from international authorship, readership, and editorship as well as internationally renowned volumes under our Special Publications and Topics in Mineral Sciences, formerly Short Course series. Membership offering several benefits including a subscription to the *Elements* magazine.

Mineralogical Society of America—Booth 100

3635 Concorde Pkwy Suite 500, Chantilly, VA, 20151-1110. Phone: +1-703-652-9950; fax: +1-703-652-9951; email: jaspeer@ minsocam.org; 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, latest Reviews in Mineralogy and Geochemistry series, and publications of related societies.

Mississippi State University—Booth 132

P.O. Box 5448, Mississippi State, MS, 39762. Phone: +1-662-325-3915; fax: +1-662-325-9423; email: rclary@geosci.msstate.edu; www.geosciences.msstate.edu. Mississippi State University's Dept. of Geosciences contains geology, geospatial sciences, atmospheric sciences, and geography expertise with research programs in biogeochemistry, engineering geology, geochemistry, geoscience education, hydrology, karst, oceanography, paleontology, sedimentology, and more. We offer undergraduate, masters, and doctoral

programs, including MS thesis and non-thesis programs in both online and traditional environments. Graduate student funding is available.

Missouri Geological Survey—Booth 322

P.O. Box 250, Rolla, MO, 65102. Phone: +1-573-368-2121; dnr.mo.gov/geology. Missouri Geological Survey was created in 1853 to collect and distribute information about Missouri's water, mineral and energy resources. Our mission is to provide earth science information and services that support stewardship and beneficial use of Missouri's natural resources and that benefit public health and safety.

Missouri State University (GGP Dept.)—Booth 236

901 S. National, Springfield, MO, 65897. Phone: +1-417-836-5801; email: deanagibson@missouristate.edu; geosciences.missouristate.edu.

Missouri University of Science and Technology—Booth 134 1400 N Bishop, 129 McNutt Hall, Rolla, MO, 65409. Phone: +1-573-341-6946; email: ikuenobe@mst.edu; www.mst.edu.

Mountain Press Publishing Company—Booth 324

1301 S. Third St. West, Missoula, MT, 59801. Phone: +1-406-728-1900; fax: +1-406-728-1635; email: info@mtnpress.com; www.mountain-press.com. Mountain Press publishes nonfiction books on geology, natural history, and history of the American West. We are known for our geology series, such as Roadside Geology, Geology Underfoot, and Geology Rocks! At the conference, all books will be sold at a discounted price.

NASA HQ—Booth 515

Washington, DC, 20546. Phone: +1-205-544-2128; fax: +1-205-544-2552; email: winnie.h.humberson@nasa.gov.

National Association of Geoscience Teachers—Booth 314

1 N College Street, Carleton College, B-SERC, Northfield, MN, 55057. Phone: +1-507-222-4545; fax: +1-507-222-5175; email: kherbstr@carleton.edu; www.nagt.org. The National Association of Geoscience Teachers (NAGT) mission is to support a diverse, inclusive & thriving community of educators and education researchers to improve teaching and learning about the Earth. We count among our members college/university faculty, K12 teachers, as well as educators working with the general public through outlets such as museums. Stop by our booth (314) to learn more about NAGT's resources including workshops, teaching activities, webinars & get some cool swag!

National Association of State Boards of Geology (ASBOG)— Booth 128

P.O. Box 5219 6000 Stewart Pkwy, Douglasville, GA, 30154. Phone: +1-678-713-1251; email: dsneyd@asbog.org; www.asbog.org. A principal service of the National Association of State Boards of Geology (ASBOG) is to develop standardized written examinations for determining qualifications of applicants seeking licensure as professional geologists.

National Cave and Karst Research Institute—Booth 208

400-1 Cascades Ave., Carlsbad, NM, 88220-6215. Phone: +1-575-887-5518; fax: +1-557-887-5523; email: ldarby@nckri.org; www.nckri.org.

National Park Service—Booth 501

P.O. Box 25287, Denver, CO, 80225. Phone: +1-303-987-6923; email: jason_kenworthy@nps.gov; www.nps.gov/nature/index .htm. 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 Park Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.

National Science Foundation (NSF)/Geosciences Directorate/ Division of Earth Sciences—Booth 709

2415 Eisenhower Ave., Alexandria, VA, 22314. Phone: +1-703-292-4733; email: ear-communication@nsf.gov; www.nsf.gov/dir/index .jsp?org=GEO. 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.

Northern Illinois University—Booth 246

1425 W Lincoln Hwy, Dept. of Geology and Environmental Geosciences, Dekalb, IL, 60115. Phone: +1-815-753-0523; fax: +1-815-753-1945; email: mfischer@niu.edu; www.niu.edu/ geology/. The Dept. of Geology and Environmental Geosciences provides a welcoming home to motivated graduate students seeking close mentorship from faculty, ready access to outstanding research facilities and abundant opportunities for field experience. We offer M.S. and Ph.D. degrees in a variety of subdisciplines and 90% of our students receive competitive assistantships.

Oklahoma State University, Boone Pickens School of Geology—Booth 245

105 Noble Research Center, Stillwater, OK, 74078. Phone: +1-405-744-6358.

Oregon State University—Booth 534

104 CEOAS Administration Bldg., Oregon State University, Corvallis, OR, 97331. Phone: +1-541-737-1214; email: meigsa@ geo.oregonstate.edu; ceoas.oregonstate.edu. At the College of Earth, Ocean, and Atmospheric Sciences, the landscape is our laboratory. Our explorations extend from local to global, from the core of the Earth through the seas and all the way to Mars, and from science to policy and practice. Academic programs include undergraduate degrees in Geology, Climate Science, and Ocean Science, and graduate studies leading to a Geology or an Ocean, Earth, and Atmospheric Sciences degree.

OU School of Geology and Geophysics—Booth 448

100 E Boyd, Room 710, Norman, OK, 73019. Phone: +1-405-325-3253; email: tullius@ou.edu; geology.ou.edu. The University of Oklahoma School of Geology & Geophysics continues to rank among top universities nationwide. Our research programs in geochemistry and mineralogy, crustal-scale geophysics, diagenesis, paleoecology, and paleoclimate are highly regarded and increase the scope of educational opportunities for our students.

Paleontological Research Institution—Booth 224

1259 Trumansburg Road, Ithaca, NY, 14850. Phone: +1-607-273-6623; fax: +1-607-273-6620; email: swaby@priweb.org; www priweb.org. PRI and its Museum of the Earth and Cayuga Nature Center is a non-profit research and education facility in Upstate

New York. Visit us for information about publications, educational programs, teacher resources, and our plush toy line Paleozoic Pals.

Paleontological Society—Booth 229

9650 Rockville Pike, Bethesda, MD, 20814. Phone: +1-301-634-7231; fax: +1-301-634-7099; email: management@paleosoc.org; www.paleosoc.org. The Paleontological Society is an international nonprofit organization devoted exclusively to the advancement of the science of paleontology. Members from 40 countries consist of professional paleontologists, academicians, science editors, earth-science teachers, museum specialists, undergrad and graduate students, post-doctoral scholars and avocational paleontologists. Membership includes free online access to two premier Journals; the Journal of Paleontology and Paleobiology. www.paleosoc.org.

Pearson—Booth 305

221 River Street, Hoboken, NJ, 07030-5891. Phone: +1-201-587-6149; email: lauren.lopez@pearson.com; www.pearson.com/us. We're here to keep the whole world learning. In a fast-changing world, education is the key to success. For every learner, at every stage of their life, education is the path to opportunity & fulfillment. Our world-class tools, content, products & services are designed to help people adapt to our changing world, navigate is challenges & opportunities, and make progress in their lives. Because where learning flourishes, so do people.

Pix4D—Booth 714

201 Mission Street, Suite 560, San Francisco, CA, 94105. Phone: +1-415-766-0503; www.pix4d.com. Pix4D is the industry leader in professional drone mapping and photogrammetry software solutions. Based in Switzerland, with offices in Shanghai, San Francisco and Berlin, the company's end-to-end solutions empower individuals to instantly capture their own 3D maps of changing environments. Images taken by hand, by drone, or by plane are automatically converted into georeferenced 2D mosaics, 3D models, and point clouds.

Proto Manufacturing Ltd.—Booth 120

12350 Universal Drive, Taylor, MI, 48180-4070. Phone: +1-734-946-0974; email: kstrickland@protoxrd.com; www.protoxrd.com. PROTO is a leading provider of portable and laboratory-based X-ray diffraction (XRD) systems. Our AXRD Benchtop system is a low-cost alternative for powder diffraction. This compact, easy to maintain system is ideal for Phase Identification, Quantitative Analysis or Structure Analysis. The AXRD Benchtop will bring you years of convenience and value for even the most demanding XRD investigation.

Purdue University, Earth, Atmospheric, and Planetary Sciences—Booth 217

550 Stadium Mall Drive.; HAMP RM 2169, West Lafayette, IN, 47907. Phone: +1-765-494-3258; 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.

Real World Globes—Booth 833

P.O. Box 422, Goshen, CA, 93277. Phone: +1-559-786-2128; email: drogers@realworldglobes.com; www.realworldglobes.com.

Rice University—Booth 143

6100 Main Street, MS 100, Houston, TX, 77005. Phone: +1-713-348-6219; fax: +1-713-348-5214; email: ctlee@rice.edu; earthscience.rice.edu. The Dept. of Earth, Environmental & Planetary Sciences at Rice University offers geoscience degree programs at the Bachelor, Masters, and Ph.D. levels in all research areas. The Rice Center for a Sustainable Earth is pioneering a new frontier of systems thinking called Whole Earth Systems Science. We are studying how the ocean, atmosphere, biosphere, and deep Earth each interact to give us a habitable planet.

Rigaku Americas Corp.—Booth 811

9009 New Trails Drive, The Woodlands, TX, 77381. Phone: +1-281-362-2300; fax: +1-281-364-3628; email: michelle.goodwin@rigaku.com; www.rigaku.com. Rigaku has a complete line of X-ray diffraction, X-ray fluorescence instruments and components. The benchtop MiniFlex XRD and Supermini WDXRF systems. SmartLab(R) multi-purpose diffractometers with SAXS & inplane capabilities, DMAX Rapid II micro-diffraction system, SMAX3000 small angle scattering system & ZSX Primus series of high-powered WDXRF spectrometers with mapping capabilities and tube-above or below configurations.

Ruen Drilling Inc.—Booth 718

P.O. Box 267, Clark Fork, ID, 83811. Phone: +1-208-266-1151; fax: +1-208-266-1379; email: rochelle.ruen@ruendrilling.com; www.ruendrilling.com.

Rutgers University Earth & Planetary Sciences Dept.— Booth 244

610 Taylor Road, Piscataway, NJ, 08554-8066.

San Diego State University—Booth 338

5500 Campanile Drive, San Diego, CA, 92182, Phone: +1-619-594-5470; email: pparrish@mail.sdsu.edu; www.e-chug.com.

SciAps Inc.—Booth 209

2 Constitution Way, Woburn, MA, 01801. Phone: +1-339-927-9455; fax: +1-339-600-3038; email: smoller@sciaps.com; www.sciaps.com.

Science is Never Settled—Booth 733

P.O. Box 4875, Jackson, WY, 83001. Phone: +1-307-413-4055; email: peward@wyoming.com; www.whyclimatechanges.com. Science is Never Settled is a non-profit organization, incorporated in the state of Wyoming, whose purpose is to educate the public about how science is done, how science can improve public safety with respect to natural hazards, and how science is needed to illuminate public policy issues in an increasingly technological world. Our primary focus is on the causes and effects of climate change and other natural hazards.

Sensors & Software Inc.—Booth 115

1040 Stacey Court, Mississauga, ON, L4W 2X8, Canada. Phone: +1-905-624-8909; email: cmoreno@sensoft.ca; www.sensoft.ca. Sensors & Software designs and manufactures ground penetrating

radar (GPR) products for customers worldwide. Understanding what lies beneath the surface of materials like soil, rock, pavement and concrete helps solve many problems. Our years of experience, world-leading products and responsive service enable delivery of effective solutions.

SEPM (Society for Sedimentary Geology)—Booth 407

1621 S Eucalyptus Ave. Suite 204, Broken Arrow, OK, 74012. Phone: +1-918-994-6216; email: hcooney@sepm.org; www.sepm.org. SEPM is dedicated to the dissemination of scientific information on sedimentology, stratigraphy, paleontology, marine geology, hydrogeology, and many related specialties. The Society supports members by publication of two major scientific journals, *Journal of Sedimentary Research* (JSR) and *PALAIOS*, in addition to producing technical conferences, short courses, and Special Publications.

Sigma Gamma Epsilon—Booth 439

University of Northern Iowa Dept. of Earth Science, Cedar Falls, IA, 50614. Phone: +1-319-230-2572; fax: +1-319-273-7124; email: james.walters@uni.edu; www.sigmagammaepsilon.com. Sigma Gamma Epsilon is the national honor society for the Earth Sciences and currently has over 200 chapters at colleges and universities in the U.S. The SGE booth at GSA will be staffed with SGE representatives who will be able to answer questions about the goals and purposes of the Society, and GSA attendees will be able get information on establishing a chapter on their campus.

Society for the Preservation of Natural History Collections— Booth 228

Dept. of Earth and Environmental Sciences, University of Iowa, 115 Trowbridge Hall, Iowa City, IA, 52242. Phone: +1-319-335-1822; fax: +1-319-335-1821; email: tiffany-adrain@uiowa.edu; www.spnhc.org. The Society for the Preservation of Natural History Collections [SPNHC] is an international society whose mission is to improve the preservation, conservation and management of natural history collections to ensure their continuing value to society. Visit us and become a member at http://www.spnhc.org/, be a part of our community and access our collection resources. Join us at our 2019 annual meeting at The Field Museum, Chicago.

South Dakota School of Mines and Technology—Booth 442

501 E Street, Joseph St., Rapid City, SD, 57701. Phone: +1-605-941-2294; email: nuri.uzunlar@sdsmt.edu; geologyfieldcamp.sdsmt.edu. The Black Hill Natural Sciences Field Station is cooperative program at South Dakota School of Mines and Technology in Rapid City, SD, offering variety of field camps including six credit traditional geology and geological engineering field camps, volcanology, environmental and petroleum field camps in number of worldwide locations.

Spectra Vista Corporation—Booth 542

29 Firemens Way, Poughkeepsie, NY, 12603. Phone: +1-845-471-7007; fax: +1-845-471-7020; email: tomc@spectravista.com; www.spectravista.com.

SPEX SamplePrep—Booth 734

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Syracuse University—Booth 139

141 Crouse Drive Heroy Geology Building, Suite 204, Syracuse, NY, 13244. Phone: +1-315-443-2674; email: earadmin@syr.edu; earthsciences.syr.edu. Syracuse University Dept. of Earth Sciences is are a very active, research-oriented department with faculty, postdoctoral investigators and graduate students engaged in exciting research projects worldwide. We are a close-knit department, specializing in three general areas of Earth Sciences: solid Earth geosciences, paleoclimatology, and water resources. Information on our department visit our website at http://earthsciences.syr.edu/.

Terra Persona LLC—Booth 435

P.O. Box 18943, Golden, CO, 80402. Phone: +1-303-913-0628; email: admin@terrapersona.us; terrapersona.us. Terra Persona LLC is a geologist-owned company producing well-crafted, geology-inspired clothing, accessories and home decor. Our designs feature photomicrographs of rocks, meteorites and fossils in polarized light. We focus on bridging science and art while maintaining ethical and sustainable practices. Stop by our booth for a chance to win one of our daily giveaways!

Texas A&M University—Booth 332

109 Halbouty Hall; College Station, TX, 77843-3115. Email: mcpope@tamu.edu.

Texas Tech University—Booth 243

2500 Broadway, MS 1053, Lubbock, TX, 79410. Phone: +1-806-742-3102; fax: +1-806-742-0200; email: jeff.lee@ttu.edu; www.geosciences.ttu.edu/ges.

The Clay Minerals Society—Booth 102

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

The FOSSIL Project—Booth 118

Florida Museum of Natural History, 1659 Museum Road, Gainesville, FL, 32611. Phone: +1-352-273-1936; email: fossil@ flmnh.ufl.edu; www.myfossil.org. Based at the Florida Museum of Natural History, on the University of Florida campus, The FOSSIL Project is cultivating a networked community of practice in which fossil club members and professional paleontologists collaborate in learning, the practice of science, and outreach.

The Geological Society of London—Booth 615

Burlington House Piccadilly, London W1J 0BG, United Kingdom. Phone: 44 1225 445 046; fax: 44 1225 442 836; email: jenny .blythe@geolsoc.org.uk; www.geolsoc.org.uk. The Geological Society of London is a learned society and professional body for geosciences providing a wide range of professional and scientific support to its 12,500 Fellows. As well as boasting one of the most important geological libraries in the world, the Geological Society is a global leader in Earth science publishing, and is renowned for its cutting-edge science meetings.

The Paleobiology Database—Booth 225

George Mason University, MS 6E2, Fairfax, VA. Email: info@paleobiodb.org; www.paleobiodb.org.

Thermo Fisher Scientific—Booth 301

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Treatise on Invertebrate Paleontology—Booth 223

1475 N Jayhawk Blvd, Room 119, Lawrence, KS, 66045. Phone: +1-785-864-3338; fax: +1-785-864-3636; email: dmayse@ku.edu; www.paleo.ku.edu. The Paleontological Institute publishes the world-renowned *Treatise on Invertebrate Paleontology*, now in its seventh decade of publication, with more than 50 volumes. Chapters of forthcoming Treatise volumes are published online in Treatise Online, and subscribers can access the entire Treatise through the Digital Treatise. The Institute also publishes the openaccess online journal *Paleontological Contributions*.

Tulane University—Booth 247

6823 Street, Charles Ave., New Orleans, LA, 70118. Phone: +1-504-862-3196; email: bgoehrin@tulane.edu; www2.tulane.edu/sse/eens/.

U.S. Science Support Program, IODP—Booth 101

Lamont-Doherty Earth Observatory 61 Route 9W, Palisades, NY, 10964. Phone: +1-845-365-8785; email: jspencer@ldeo.columbia .edu; www.usoceandiscovery.org. The International Ocean Discovery Program (IODP) is an international marine research collaboration that explores Earth's history and dynamics using ocean-going research platforms to recover data recorded in seafloor sediments and rocks and to monitor subseafloor environments. IODP expeditions are developed from hypothesis-driven science proposals aligned with the program's Science Plan, which identifies four areas of climate change, deep life, planetary dynamics, and geohazards.

UNAVCO Inc.—Booth 706

6350 Nautilus Drive, Boulder, CO, 80301. Phone: +1-303-381-7500; fax: +1-303-381-5701; email: weber@unavco.org; www.unavco.org. UNAVCO, funded by NSF, supports geoscience research and education using geodesy, the study of Earth's shape and how it changes over time. UNAVCO operates and supports geodetic networks,

geophysical and meteorological instruments, an open data archive, and software tools for data access and processing, as well as provides technical support, geophysical training, education, and outreach, and geoscience opportunities for students.

University of Alaska-Anchorage—Booth 235

Dept. of Geological Sciences 3211 Providence Drive, CPISB 101, Anchorage, AK, 99508. Phone: +1-907-786-0313; fax: +1-907-786-4607; email: skattenhorn@alaska.edu; www.uaa.alaska.edu/geology/. The University of Alaska Anchorage (UAA) Dept. of Geological Sciences fuses classroom, laboratory, and field-based education. The region hosts numerous environmental, mining, and oil and gas industries. We are located on an active tectonic margin with volcanoes, glaciers, and North America's highest mountain right on our doorstep. Anchorage is the largest city in Alaska with an ethnically diverse population of 290,000.

University of Alabama—Booth 237

P.O. Box 870338, Tuscaloosa, AL, 35487. Phone: +1-205-247-3679; email: bhtew@ua.edu; www.geo.ua.edu. The Dept. of Geological Sciences at The University of Alabama, including the Center for Sedimentary Basin Studies, offers prospective students with comprehensive geoscience degree programs at the Bachelors, Masters, and Ph.D. levels. DGS and CSBS invite students, as well as potential research partners, to visit our booth and explore our initiatives and capabilities.

University of Arizona Geosciences Dept.—Booth 345

1040 E 4th Street, Room 208, Tucson AZ 85721. Phone: +1-520-626-8204; fax: +1-520-621-2672; email: alicias@ email.arizona.edu; www.geo.arizona.edu. Geosciences at the University of Arizona focuses on the origin and evolution of Earth and its systems from core to clouds. We study interactions between the solid Earth and the hydrosphere, biosphere, and atmosphere, the deep mantle, the dynamic lithosphere, and critical challenges of climate, energy, resources, and sustainability. We work in the stunning Sonoran Desert, and our interdisciplinary research takes us to the highest mountains, remotest oceans, the poles, and beyond.

University of Arkansas-Fayetteville—Booth 445

340 N. Campus Drive (GEAR 216), Fayetteville AR 72701. Phone: +1-479-575-6603; fax: +1-479-575-3469; email: jkvamme@uark.edu; fulbright.uark.edu/departments/geosciences/. The Geosciences Dept., Univ. of Arkansas, is situated in the Ozark Mountains. The department is home to 22 vibrant full-time faculty with MS/Ph.D. programs. Strengths of the department include: sedimentology, geophysics, hydrogeology, paleontology, geomorphology, tectonics, climate modeling, geochemistry, GIS, dendrochronology, and more. Assistantships up to \$32,000/year to qualified applicants. Stop by our booth for details!

University of California Davis Earth and Planetary Sciences— Booth 637

One Shields Ave. Earth and Planetary Sciences Dept., UC Davis, Davis, CA, 95616. Phone: +1-530-752-0350; email: geology@ucdavis.edu; geology.ucdavis.edu. The UC Davis Earth and Planetary Sciences department is internationally recognized for its faculty, teaching and research programs. A large number of graduate students and undergraduate students majoring in geology help create a vibrant department community. Our faculty and students

pursue field, laboratory, experimental, and modeling studies of geological and environmental problems around the world.

University of Connecticut Center for Integrative Geosciences— Booth 147

354 Mansfield Road, Storrs, CT, 06269. Phone: +1-860-486-4432; email: christin.donnelly@uconn.edu.

University of Delaware—Booth 234

255 Academy Street, Newark, DE, 19716. Phone: +1-302-831-6220; email: sturchio@udel.edu; www.ceoe.udel.edu/schools-departments/department-of-geological-sciences. Opportunities for graduate study in: coastal and marine geology & geophysics, surface processes & geomorphology, hydrogeology, geomicrobiology, geoarchaeology, Quaternary geology, petrology, paleobiology & micropaleontology, and geochemistry.

University of Florida Geological Sciences—Booth 349

1843 Stadium Road, Gainesville, FL, 32611. Phone: +1-352-273-1279; www.geology.ufl.edu.

University of Idaho Geological Sciences—Booth 334

825 Perimeter Drive, MS3022, Moscow ID 83844-3022. Phone: +1-208-885-6785; email: tomw@uidaho.edu; www.uidaho.edu.

University of Kansas—Booth 142

1475 Jayhawk Blvd., Room 120, Lawrence, KS, 66045. Phone: +1-785-864-5628; fax: +1-785-864-5726; email: cariell@ku.edu; www.ku.edu.

University of Kentucky—Booth 437

Dept. of Earth and Environmental Sciences 101 Slone Building, Lexington, KY, 40506-0053. Phone: +1-859-257-4392; email: alan.fryar@uky.edu; ees.as.uky.edu. The University of Kentucky Dept. of Earth and Environmental Sciences offers BA, BS, MS, and Ph.D. degrees in Geological Sciences. We have 11 tenure-track faculty, approximately 40 graduate students and 55 undergraduate majors, and close working relationships with the Kentucky Geological Survey and the Center for Applied Energy Research.

University of Memphis—Booth 148

201 Johnson Hall, Memphis, TN, 38152. Phone: +1-901-678-4358; email: dlarsen@memphis.edu.

University of Michigan—Booth 137

Dept. of Earth and Environmental Sciences 1100 North University Avenue, Suite 2534, Ann Arbor, MI, 48109-1005. Phone: +1-734-615-3034; email: ahudon@umich.edu; lsa.umich.edu/earth. The Dept. of Earth and Environmental Sciences at the University of Michigan has a multidisciplinary world-class research program that includes the application of physics, chemistry, biology, and mathematics to the Earth and its environment.

University of Mississippi—Booth 446

120A Carrier Hall, University, MS, 38611. Phone: +1-662-915-2079; fax: +1-662-915-7498; engineering.olemiss.edu/gge/.

University of Missouri—Booth 145

101 Geological Sciences, Columbia, MO, 65211-1380. Phone: +1-573-884-7625; fax: +1-573-882-5458; email: whittingtona@ missouri.edu; geology.missouri.edu.

University of Nevada, Las Vegas—Booth 432

4505 Maryland Pkwy, LFG 104 Box 4010, Las Vegas, NV, 89154. Phone: +1-702-895-3262; fax: +1-702-895-4064; email: maria.rojas@unlv.edu; geoscience.univ.edu. We are an active and growing department conducting a wide variety of exciting research and providing our students with outstanding opportunities to broaden their minds and careers. With its amazing scenery, natural resources, and outstanding field areas Nevada is one of the best places to earn a BS, MS or Ph.D. degree in the Geosciences. Go to http://geoscience.unlv.edu; email: geodept@unlv.edu. There you will find information on our faculty and their research along with student opportunities.

University of Notre Dame—Booth 242

301 Stinson-Remick Hall, Notre Dame, IN, 46556. Phone: +1-574-631-6247; email: gsigmon@nd.edu; actinidecenter.com. The University of Notre Dame (UND) is home to the NNSA Actinide Center of Excellence (ACE). We are recruiting graduate students who are interested in nuclear materials research to UND and our partner universities: Washington State, Oregon State, Minnesota, and Northwestern. Students will be trained in the synthesis and characterization of nuclear materials and will have a three-month internship at a national laboratory.

University of Pennsylvania—Booth 122

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University of South Carolina—Booth 337

701 Sumter Street, EWS 617, Columbia, SC, 29208. Phone: +1-803-777-9941; email: aleier@geol.sc.edu; www.geol.sc.edu.

University of Southern California Dept. of Earth Sciences— Booth 238

3651 Trousdale Pkwy, ZHS 117, Los Angeles, CA, 90089-0740. Phone: +1-818-821-3933; email: kayoung@usc.edu; www.dornsife.usc.edu/earth/.

University of Tennessee—Booth 444

1621 Cumberland Ave., Knoxville, TN, 37996-1410. Phone: +1-865-974-2366; email: eps@utk.edu; eps.utk.edu. The Dept. of Earth & Planetary Sciences at the University of Tennessee offers B.S., M.S., and Ph.D. degrees in geology that prepare students for careers in academia, industry, and the government. The research interests of our faculty are diverse, spanning geochemistry, hydrogeology, environmental science, geomicrobiology, paleontology, sedimentology and stratigraphy, petrology, crustal structure and geophysics, and planetary geoscience.

University of Texas at Austin-Jackson School of Geosciences— Booth 333

1 University Station, C1100, Austin, TX, 78712. Phone: +1-512-471-6098; fax: +1-512-471-5585; email: philipg@mail.utexas.edu; www.jsg.utexas.edu.

University of Texas at Dallas—Booth 434

800 W Campbell Road, Richardson, TX, 75080. Email: rjstern@utdallas.edu; www.utdallas.edu.

University of Texas at El Paso Dept. of Geological Sciences— Booth 149

500 W University Ave., 101 Geological Sciences, El Paso, TX, 79968. Phone: +1-915-744-5501; email: abruner@utep.edu; utep.edu/geologicalsciences. UTEP has an excellent geological location in the Rio Grande rift. A diverse faculty of 20 continue strong field work combined with analytical and computational methods. We excel in interdisciplinary research and education.

University of Toledo—Booth 248

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University of Wisconsin-Madison-Booth 343

1215 W Dayton Street, Madison, WI, 53715. Email: mszabo@wisc.edu; www.geoscience.wisc.edu.

University of Wyoming—Booth 638

1000 E University, Laramie, WY, 82071. Phone: +1-307-766-3386.

Virginia Tech Dept. of Geosciences—Booth 232

4044 Derring Hall, Blacksburg, VA, 24061. Phone: +1-540-231-8824; email: mschreib@vt.edu; www.geos.vt.edu. Students and faculty in Virginia Tech's Dept. of Geosciences (www.geos.vt.edu) investigate Earth and planetary processes at atomic to planetary scales. We have nationally ranked graduate research programs in traditional areas of geoscience in addition to interdisciplinary programs in nanoscience, global change, water, disaster resilience, and others.

W.W. Norton & Company Inc.—Booth 414

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West Virginia University—Booth 342

330 Brooks Hall, Morgantown, WV, 26506-6300. Phone: +1-304-293-9819; fax: +1-304-293-6522; email: jkite@wvu.edu; www.wvu.edu.

Western Michigan University—Booth 438

Dept. of Geological and Environmental Science 1903 W Michigan Ave., Rood Hall 1187, Kalamazoo, MI, 49008-5241. Phone: +1-269-387-5486; fax: +1-269-387-5513; email: kathryn.wright@wmich.edu; www.wmich.edu. The department's research is

focused on geologic mapping, groundwater, energy utilizing the applied geophysics, hydrogeology, remote sensing, paleoclimate studies and subsurface sample coring and characterization. In recent years, the department has extended its scope to new frontiers of earth science, including space and planetary sciences, astrobiology, airborne geophysics and energy reservoir characterization. We offer a variety of academic programs for college students and professionals.

Wiley-Booth 814

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Yale University, Dept. of Geology and Geophysics—Booth 133

210 Whitney Ave., New Haven, CT, 06511. Phone: +1-203-432-3124; fax: +1-203-436-8342; email: peter.schrader@yale.edu; www.environment.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.

Yellowstone Bighorn Research Association (YBRA)—Booth 634

4118 Lanark, Houston, TX, 77025. Phone: +1-713-724-0104; email: j_sisson@netzero.com; www.ybra.org. YBRA is a non-profit field station near Red Lodge, Montana, for students and researchers in a diverse geological and ecological natural laboratory. Since our founding in 1936 by Princeton, we have educated over 7,000 students. Annually, YBRA hosts 6–10 universities and a variety of other groups including professional and community-centered symposia. We are developing STEM teacher training and field technology short courses.



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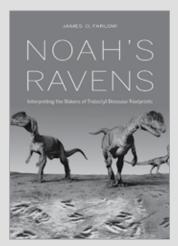
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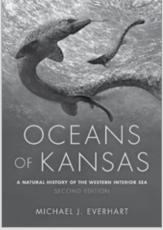
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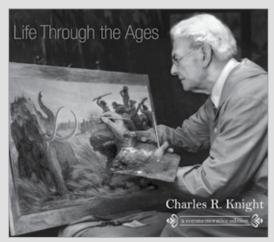


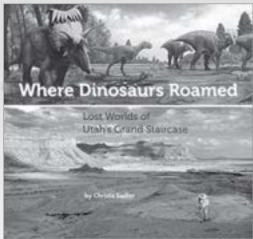
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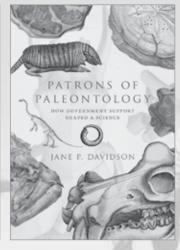
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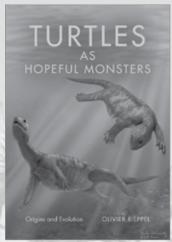


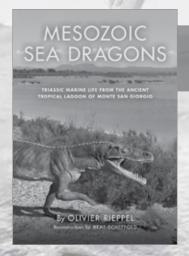












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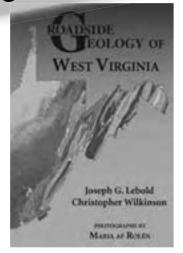
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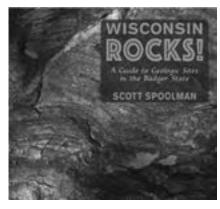


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