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# GSA TODAY

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*Thanks to*

**GeoCorps™ America and National Park  
Service Geoscientists-in-the-Parks  
Program Participants, Partners, and Donors!**



# 2019 GSA Section Meetings



## Northeastern

17–19 March  
Portland, Maine, USA  
Meeting Chair: Steve Pollock, [spollock@maine.rr.com](mailto:spollock@maine.rr.com)  
[www.geosociety.org/ne-mtg](http://www.geosociety.org/ne-mtg)



## Joint South-Central/North-Central/ Rocky Mountain

25–27 March  
Manhattan, Kansas, USA  
Meeting Chairs: Matthew Kirk, [matthew.f.kirk@gmail.com](mailto:matthew.f.kirk@gmail.com);  
Tina Niemi, [niemit@umkc.edu](mailto:niemit@umkc.edu); Shannon Mahan,  
[smahan@usgs.gov](mailto:smahan@usgs.gov)  
[www.geosociety.org/sc-mtg](http://www.geosociety.org/sc-mtg)



## Southeastern

28–29 March  
Charleston, South Carolina, USA  
Meeting Chairs: Scott Harris, [HarrisS@cofc.edu](mailto:HarrisS@cofc.edu);  
Katie Luciano, [LucianoK@dnr.sc.gov](mailto:LucianoK@dnr.sc.gov)  
[www.geosociety.org/se-mtg](http://www.geosociety.org/se-mtg)



## Cordilleran

15–17 May  
Portland, Oregon, USA  
Meeting Chairs: Martin Streck, [streckm@pdx.edu](mailto:streckm@pdx.edu);  
Jim O'Connor, [oconnor@usgs.gov](mailto:oconnor@usgs.gov)  
[www.geosociety.org/cd-mtg](http://www.geosociety.org/cd-mtg)

Northeastern image: Portland waterfront, Portland, Maine, USA. Photo courtesy Maine Office of Tourism. Joint Meeting image: Manhattan, Kansas, USA. Photo courtesy K-State Photo Services. Southeastern image: Beach boardwalk, Charleston, South Carolina, USA. Photo courtesy Meetcharleston.com. Cordilleran image: Chanticleer Point, Portland, Oregon, USA. Photo by Martin Streck.

# GSA TODAY

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Photo courtesy Phoebe Ferguson.



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# Thank You

## 2018 GeoCorps™ America Participants, Partners, and Donors

GeoCorps provides paid geoscience opportunities in partnership with government agencies and other organizations committed to science and stewardship, including the Bureau of Land Management (BLM) and the USDA Forest Service. All levels of geoscientists—students, educators, professionals, retirees, and others—are encouraged to apply. Opportunities for spring/summer 2019 will be posted online and open for applications at the beginning of December 2018.

[www.geosociety.org/geocorps](http://www.geosociety.org/geocorps)



**Samuel Marolt**, Bureau of Land Management Royal Gorge Field Office.



**Cole Blasko, Chelsea Foster, Laura Hartman, and Lauren Herbine**, USFS Umpqua National Forest.



**Chelsea Foster**, U.S. Forest Service, Umpqua National Forest.

### Government Partners and Major Donors to the GeoCorps Program

#### Government Partners include



Bureau of Land Management (BLM)



Forest Service  
Department of Agriculture

#### Staffing Partners include



Aerotek

#### Donors include



Geological Society of America Foundation (GSFA)

# 2018 Participants

## **BUREAU OF LAND MANAGEMENT**

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### **BLM Royal Gorge Field Office**

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Amber Sanderson

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### **BLM Washington Office**

Brianna Hill

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### **BLM Nevada State Office**

Ronald Navarro

### **BLM Rock Springs Field Office**

Olivia Boudette

### **BLM Royal Gorge Field Office**

Samuel Marolt

### **BLM Wyoming State Office**

Erin Walter

### **BLM Wyoming State Office—National Minerals Testing Lab**

Bart Cubrich

## **USDA FOREST SERVICE (USFS)**

### **Custer Gallatin National Forest**

Jenna Kaplan

### **Dakota Prairie Grasslands**

#### **Supervisor's Office**

Christine Gardner

### **Huron-Manistee National Forests**

Sarah Meyer

Jennifer Pitcher

### **Lincoln National Forest**

Edward Fordham

Aria Mildice

Bailey Ohlson

### **Minerals and Geology Management**

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### **Monongahela National Forest**

Lisa Allard

### **National Forests in Alabama**

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Hannah Huhman

Nicole Leach

### **National Grasslands Visitor Center**

Allison Nelson

### **Nebraska National Forest**

Rachel Darata

Maria Peterson

Joshua Wynn

### **USFS Pacific Southwest Region**

Anna Chinchilli

### **Pike and San Isabel National Forests**

Robert James

### **Plumas National Forest**

Hannah Keck

### **Superior National Forest**

Megan Maloney

Cara Piske

### **Tongass National Forest**

Brooke Kubby

Jessica Petty

Spencer Wilbur

### **Umpqua National Forest**

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Lauren Herbine

### **White River National Forest**

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**NAGT** THE GEOLOGICAL SOCIETY OF AMERICA



**Mariana Webb**, National Park Service, Denali National Park and Preserve.

# Thank You 2018 Geoscientists- in-the-Parks Participants, Partners, and Donors!

The National Park Service Geoscientists-in-the-Parks (GIP) program places college students and early career professionals (18–35 years old) in National Park Service units for three months to one year to assist with geology and integrated science projects. This program is a partnership between the National Park Service, the Geological Society of America, and Stewards Individual Placement Program. Opportunities for spring/summer 2019 will be posted online and open for applications at the beginning of December 2018.

[www.geosociety.org/gip](http://www.geosociety.org/gip)

## Partners and Major Donors to the Geoscientists-in-the-Parks Program

### Partners include



National Park Service



Stewards Individual Placement Program



Geological Society of America Foundation (GSAF)

### Major donors include

**Sally Newcomb**

### Other funding sources include:

Rocky Mountain Conservancy  
Bryce Canyon Natural History Association  
Badlands Natural History Association

Grand Canyon Association  
Devils Tower Natural History Association  
Shenandoah National Park Trust

Zion Forever Project  
NPS Intermountain Region

# 2018 Participants

## **Agate Fossil Beds National Monument**

Jessica De Smet

## **Alaska Regional Office**

Claire Schmidt

## **Air Resources Division**

Munkhzaya Boldbaatar

## **Amistad National Recreation Area**

Cristina Martinez

## **Assateague Island National Seashore**

Krista Noe

Samantha Richards

Caitlyn Sutherland

## **Badlands National Park**

Holley Flora

Sara Oser

Kyle Radach

Greg Rupp

Kellen Shaver

## **Bandelier National Monument**

Carolina May

## **Big Bend National Park and Rio Grande Wild and Scenic River**

Emma Hall

## **Big Thicket National Preserve**

Hailey Loken

## **Biological Resources Division**

Nicole Brandt

Maria Caffrey

Parker Hopkins

Allie Petersen

Alexandra Stoneburner

## **Bryce Canyon National Park**

Valerie Fazan

Jesse Gates

Joy Kiefer

Emily Vanlonden

## **Buffalo National River**

Aliera Konett

Hannah Sutcliffe

## **Cabrillo National Monument**

McKenna Pace

## **Cape Cod National Seashore**

Philip Conrad

Shari Rohret

## **Cape Hatteras National Seashore**

Michael Flynn

## **Capitol Reef National Park**

Maleea Ezekiel

## **Carl Sandburg Home**

### **National Historic Site**

Tara Burnett

## **Central Alaska Network**

David Loring Schaible

## **Central Alaska Network & Wrangell –St. Elias National Park and Preserve**

John Sykes

## **Chattahoochee River National Recreation Area**

Jordan French

Douglas Jones

## **Colonial National Historical Park**

Jennifer Cramer

## **Colorado National Monument**

Erik Anderson

## **Congaree National Park**

James Collins

Kirin Gay

## **Coronado National Memorial**

Julia Grabowski

Joanna Scuteri

Diehl Sillers

## **Cuyahoga Valley National Park**

Catherine Ruhm

Christina Tenison

## **Death Valley National Park**

Scott Williams

## **Delaware Water Gap National Recreation Area**

Ariana Miranda

## **Denali National Park & Preserve**

Madeline Aberg

Hannah Bonner

Felix Bruner

Michael Frothingham

Luke Gersz

Noah Hunt

Merrill Maben

Elizabeth Menezes

Lauren Stollings

Daniel Walsh

Mariana Webb

## **Devils Tower National Monument**

Jordan Kowaleski

Elena McAninch

Maeve Sherry

## **Fire Island National Seashore**

Brianna Valot

## **Florissant Fossil Beds**

### **National Monument**

Ricardo Escobar

Anna Golub

Alyssa Johnson

Karleen Mays

Christa Smithers

## **Fort Matanzas National Monument**

Carol Grady

## **Fossil Butte National Monument**

Marie Jimenez

## **Gates of the Arctic National Park and Preserve**

Max Newton

## **Geologic Resources Division**

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Henry Crawford

## **Glen Canyon National Recreation Area**

Klara Widrig

## **Grand Canyon National Park**

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Tessa Corsetti

Desiree Espericueta

Keegan Evans

Aidan Manning

Claire Spangenberg

Natalie Tanski

## **Grand Teton National Park**

Reba McCracken

## **Great Basin National Park**

Ian Brastow

Brenna Rodriguez

## **Greater Yellowstone I&M Network**

Kaci Fitzgibbon

## **Hot Springs National Park**

Kayla Lockmiller

Meg O'Connor

Mary Stack

Erin Young-Dahl

## **Isle Royale National Park & Keweenaw National Historical Park**

Daniel Lizzadro-McPherson

## **Jewel Cave National Monument**

Hunter Klein

## **John Day Fossil Beds National Monument**

Mary Elizabeth Connors

Anne Kort

Sarah Massar

Stephen Morioka

# 2018 Participants

## **Joshua Tree National Park**

Alaina Tocci

## **Kaloko-Honokohau National Historical Park**

Brianne Lauro  
Ashley Pugh  
Cole Rankin

## **Klamath I&M Network**

Brian Ansel  
Emily Johnson  
Austin Smith

## **Klondike Gold Rush National Historical Park**

Bethany Morter

## **Lake Mead National Recreation Area**

Rebecca Humphrey  
Dominique Ong

## **Lake Roosevelt National Recreation Area & Ice Age Floods National Geologic Trail**

Elise Freeman

## **Lassen Volcanic National Park**

Kristen Jurica  
Laura Nicholson  
Amy Rudko

## **Lava Beds National Monument**

Brian Ansel  
Austin Smith

## **Little Bighorn Battlefield National Monument**

Conrad Bekta

## **Mammoth Cave National Park**

Melissa Fry

## **Manassas National Battlefield Park**

Jamie Shinskie

## **Mesa Verde National Park**

Cole Rankin  
Angela Yragui

## **Mount Rainier National Park**

Eve Barnett  
Katherine Josephine Billings  
Joshua Duncan

Hannah Hein

Tara Metzger  
Sarah Osgood  
Rosemarie Pugh  
Logan Raming  
Jolene Saldivar  
Savannah Sanford

## **National Capital Parks—East**

Margot Nelson

## **Natural Sounds and Night Skies Division**

Dominique Ong  
Nathan Tipton  
Peri Turk

## **North Cascades National Park Service Complex**

Daniel Markbreiter

## **Northeast Coastal and Barrier Network**

Krista Noe  
Caitlyn Sutherlin  
Glenn Liu

## **Olympic National Park**

Devon Lynn Dunajski  
Morgan Krueger

## **Oregon Caves National Monument and Preserve**

Laurel Cheever  
Olivia Patick

## **Rocky Mountain National Park**

Alyssa Soucy  
Collette Wilfong

## **Saguaro National Park**

John He  
Courtney King  
Eleanor Ludkey  
Jessie Pearl

## **Salinas Pueblo Missions National Monument**

Emily Thorpe

## **Shenandoah National Park**

Kendra Bunnell  
Lori Gorczynski

## **Sierra Nevada Network**

Isabel Christy  
Marisa Monroe

## **Sierra Nevada Network, Inventory & Monitoring Program**

Scott Gilb  
Zoe Klein

## **Southwest Alaska Network**

Caleb Pan

## **Southwest Alaska Network, Inventory & Monitoring Program**

Paul Gabriel

## **Timucuan Ecological and Historic Preserve & Fort Carolina National Memorial**

Alberto Alvarado  
Kate Henderson

## **Tule Springs Fossil Beds National Monument**

Susan Hertfelder

## **Urban Ecology Research Learning Alliance**

Laura Reynolds

## **Vicksburg National Military Park**

Krista Hardin

## **Waco Mammoth National Monument**

Elizabeth Mizikar  
Katherine Turk

## **Water Resources Division**

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Tae Wan Kim

## **Yellowstone National Park**

Anna Hafele  
Lauren Harrison  
Behnaz Hosseini  
William Keller  
Julia Lafond  
Daniel Markbreiter  
Claire Morris

## **Yosemite National Park**

Nikita Avdievitch

## **Zion National Park**

Emma Heitmann





Upcoming

# Award Deadlines



For details, see the October *GSA Today* or go to [www.geosociety.org/awards/aboutawards.htm](http://www.geosociety.org/awards/aboutawards.htm). For award nominations, go to [www.geosociety.org/awardnoms](http://www.geosociety.org/awardnoms). You can also email GSA Grants and Awards at [awards@geosociety.org](mailto:awards@geosociety.org).

## 2019 GSA Medals and Awards

**Nomination deadline:** 1 Feb. 2019

- Penrose Medal
- Day Medal
- Young Scientist Award (Donath Medal)
- GSA Public Service Award
- Randolph W. "Bill" and Cecile T. Bromery Award for Minorities
- GSA Distinguished Service Award
- Doris M. Curtis Outstanding Woman in Science Award
- Geologic Mapping Award in Honor of Florence Bascom
- Honorary Fellow

## John C. Frye Environmental Geology Award

**Nomination deadline:** 31 Mar. 2019

In cooperation with the Association of American State Geologists and supported by endowment income from the GSA Foundation's John C. Frye Memorial Fund, GSA makes an annual award for the best paper on environmental geology published either by GSA or by a state geological survey. Learn more at [www.geosociety.org/GSA/Awards/Frye.aspx](http://www.geosociety.org/GSA/Awards/Frye.aspx).

## 2019 Post-Doctoral Research Awards

**Application deadline:** 1 Feb. 2019

- The **Gladys W. Cole Memorial Research Award** for research on the geomorphology of semiarid and arid terrains in the United States and Mexico is awarded annually to a GSA member or Fellow between 30 and 65 years of age who has published one or more significant papers on geomorphology.
- The **W. Storrs Cole Memorial Research Award** for research on invertebrate micropaleontology is awarded annually to a GSA member or Fellow between 30 and 65 years of age who has published one or more significant papers on micropaleontology.

Learn more about these post-doc research awards at [www.geosociety.org/GSA/grants/postdoc.aspx](http://www.geosociety.org/GSA/grants/postdoc.aspx).

## AGI AWARDS

**Nomination deadline:** 1 Feb. 2019

Submit nominations for the following awards at [www.americangeosciences.org/awards](http://www.americangeosciences.org/awards).

- **AGI Medal in Memory of Ian Campbell** recognizes singular performance in and contribution to the profession of geology.
- **The AGI Marcus Milling Legendary Geoscientist Medal** is given to a recipient with consistent contributions of high-quality scientific achievements and service to the Earth sciences having lasting, historic value; who has been recognized for accomplishments in field(s) of expertise by professional societies, universities, or other organizations; and is a senior scientist nearing completion or has completed full-time regular employment.

For a listing of other national awards and links to information and nomination forms, go to [www.geosociety.org/awards/national.htm](http://www.geosociety.org/awards/national.htm).

The deadline for receipt of all GSA medal, award, and recognition nominations is 1 Feb. 2019.

# 2018–2019 Richard H. Jahns Distinguished Lecturer

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Deborah Green

Deborah Green has been named the 2018–2019 Richard H. Jahns Distinguished Lecturer in Applied Geology. The lectureship, established in 1988, is sponsored by the Association of Environmental and Engineering Geologists (AEG) and the GSA Environmental and Engineering Geology Scientific Division. It funds distinguished engineering geologists to present lectures at colleges and universities in order to

promote student awareness of applied geology. It is named in honor of Richard H. Jahns (1915–1983), an engineering geologist who had a diverse and distinguished career in academia, consulting, and government.

Born in Queens, New York, USA, Green traveled and camped throughout the United States and Canada with her family during her childhood summers, doing much of her growing up in the National Parks. She now makes her homes in a passive solar adobe house at the north end of the Sandia Mountains in New Mexico and on a sailboat in British Columbia during the summer.

Green's earth-science-teacher father informally taught her geology on their summer adventures, and she fell in love with it. She holds geology degrees from the University of Rochester and Texas A&M University. She worked as an environmental and engineering geologist for 30 years in more than 35 states, with 20 of those years as a self-employed consultant. Active in the AEG, Green has mentored many young professionals. She also champions the Norman R. Tilford Field Studies scholarships, named in honor of her late husband, an internationally recognized engineering geologist, who died in a small plane crash on his way to lead a student field trip in 1997. The awards provide support to students learning geology in the field.

Having written poetry as a girl, Green rediscovered her love for creative writing after establishing herself in her professional career. As the GeologistWriter, Green strives to understand and convey the wonder of the landscape and the complexity of earth processes while also exploring the mysterious terrain of the human heart and relationships through compelling stories and essays.

Interested institutions can contact Green via <http://geologist-writer.com/contact/> to schedule a presentation on one or more of the following topics from now to September 2019. Read more about Green and her writing projects, and find the complete abstracts for the following lectures at <http://geologistwriter.com/distinguished-lecturer/>.

## **You Don't Look Like a Geologist: A Conversation On Diversity (Or the Lack Thereof) in Our Profession**

According to recent statistics from the American Geological Institute, at least 40% of geology graduates are women. However, the same report indicates that fewer than 12% of geology graduates identify themselves as belonging to underrepresented minority groups. These statistics will serve as a starting point to talk about why there is so little diversity in our field.

## **How to Build a Geology Career You Love**

From consulting work in small shops to mega companies, to being an in-house geologist for private industry, to staffing regulatory agencies from municipalities to the federal government, to teaching STEM subjects from middle school grades up to the university level—there are myriad possibilities to build a fulfilling career.

## **A Tale of Two Waste Sites**

Once upon a time, a consulting geologist was contracted to evaluate a site for a low-level radioactive waste facility. The geologist's report summarized the geology and hydrology. He concluded, if operated properly, the site would be safe and effective. Unfortunately, that ending to the tale was fictional. In the non-fictional story, the operational constraints outlined by the geologist were not followed, and the facility's last chapter was written when it was listed as a Superfund site. We'll talk about how more sites can have happy endings when the tale the geology tells is heeded.

## **Let's Talk: A Conversation on How We Communicate about Science**

Geologists love to talk with each other about our work, but speaking with those who don't know or understand our geologic "language" isn't necessarily comfortable, and doing it well isn't easy. We need to embrace communicating science well as much as we embrace the work itself. Advocating effectively for our work makes it possible to do more of the science we value, and for society to realize that value. In this presentation, we'll talk about the challenges of conversing with non-scientists about science, and why we must face those challenges head on.

## **Always Book a Window Seat: The Lens through Which We View the World as Geologists**

The best geologists "read" the landscape, and "geologist" becomes the lens through which they observe the wider world. A sense of curiosity and desire to learn, not just in the classroom or lab or on a job site, but every day, are traits to cultivate. In this presentation, there will be plenty of pictures through a geologist's lens, and some of the stories those views tell.

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[WWW.UPENN.EDU/MSAG](http://WWW.UPENN.EDU/MSAG)



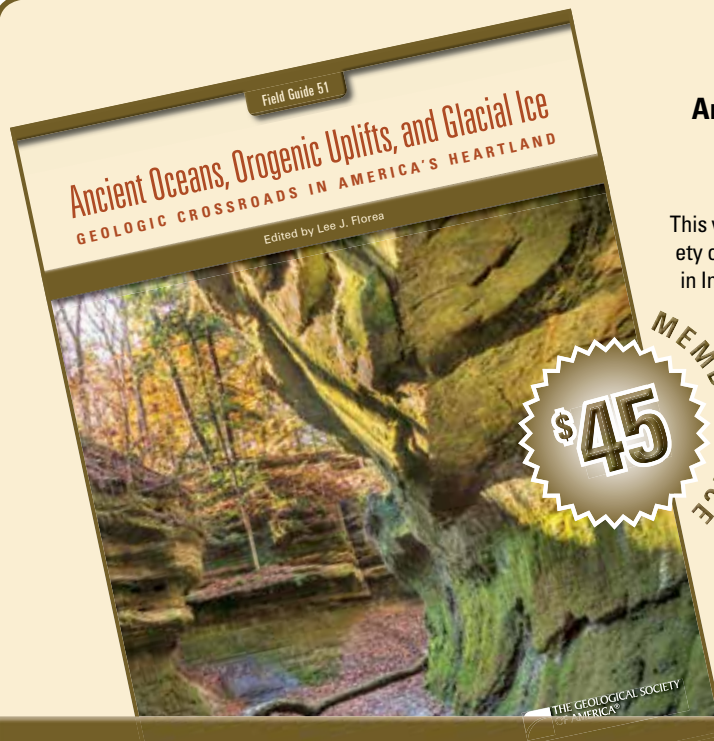
## FIELD GUIDE 51

### Ancient Oceans, Orogenic Uplifts, and Glacial Ice: Geologic Crossroads in America's Heartland

*Edited by Lee J. Florea*

This volume, prepared for the 130th Annual Meeting of the Geological Society of America in Indianapolis, includes compelling science and field trips in Indiana, Illinois, Kentucky, Michigan, and Ohio. A wealth of geologic and human history collides in the Midwest, a confluence that led to the growth of America's industry over the past two centuries. Guides in this volume depict this development from the establishment of New Harmony, the birthplace of American geology, through the construction of Indianapolis's modern skyline. Underpinning this growth were the widespread natural resources—limestone, coal, and water—that built, powered, and connected a growing nation. Take a journey through the Heartland to sand dunes, outcrops, quarries, rivers, caves, and springs that connect Paleozoic stratigraphy with the assembly of Gondwana, continental glaciation with Quaternary geomorphology and hydrology, and landscape with the human environment.

FLD051, 434 p., ISBN 9780813700519 | list price \$64.00



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# SCIENTIFIC DIVISION AWARDS

*Congratulations to All 2018 GSA Division Award Recipients!*

GSA's Scientific Division awards presented at this year's annual meeting are listed below.

Learn more about GSA's Scientific Divisions at [www.geosociety.org/divisions](http://www.geosociety.org/divisions).

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## ENERGY GEOLOGY DIVISION

*Gilbert H. Cady Award*

**Stephen F. Greb**, Kentucky Geological Survey

*Antoinette Lierman Medlin Research Award*

**Jacob R Dyson**, Southern Illinois University Carbondale

**Michael Paul D'Antonio**, Stanford University

**Libby R.W. Ives**, University of Wisconsin–Milwaukee

---

## ENGINEERING AND ENVIRONMENTAL GEOLOGY DIVISION

*E.B. Burwell, Jr., Award*

**David S. Parks**, Washington State Department of Natural Resources, 2015, Bluff Recession in the Elwha and Dungeness Littoral Cells, Washington, USA: *Environmental and Engineering Geoscience*, Vol. XXI, No. 2, p. 129–146.

*Meritorious Service Award*

**Thad Wasklewicz**, East Carolina University

*Richard H. Jahns Distinguished Lecturer (2018–2019)*

**Deborah Green**, Tilford & Green

*Roy J. Shlemon Scholarship Awards*

**Jon Kenneth Golla**, University of New Mexico

**Andrew Graber**, Colorado School of Mines

**Joe Schilter**, Central Washington University

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## GEOARCHAEOLOGY DIVISION

*Rip Rapp Archaeological Geology Award*

**Gary Huckleberry**, University of Arizona

*Claude C. Albritton, Jr., Memorial Student Research Award*

**Katelyn McDonough**, Texas A&M University

**Michael Grooms**, University of New Mexico

*Richard Hay Student Paper/Poster Award*

(to be named)

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## GEOBIOLOGY & GEOMICROBIOLOGY DIVISION

*Outstanding Contributions in Geobiosciences  
Award—Pre-Tenure*

**Paula Welander**, Stanford University

**James Schiffbauer**, University of Missouri

*Outstanding Contributions in Geobiosciences  
Award—Post-Tenure*

**Beth Orcutt**, Bigelow Laboratory for Ocean Sciences

*Outstanding Contributions in Geobiosciences Award—  
Distinguished Career*

**Andrew Knoll**, Harvard University

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## GEOINFORMATICS DIVISION

*Outstanding Contributions Award*

**Stephen M. Richard**, Columbia University, Lamont-Doherty Earth Observatory

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## GEOPHYSICS DIVISION

*George P. Woollard Award*

**Greg Hirth**, Brown University

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## GEOSCIENCE EDUCATION DIVISION

*Biggs Award for Excellence in Earth Science Teaching*

**Nicole LaDue**, Northern Illinois University

*Iris Moreno Totten Geoscience Education Research Award*

**Caitlin K. Kirby**, Michigan State University

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## HISTORY AND PHILOSOPHY OF GEOLOGY DIVISION

*Mary C. Rabbitt History of Geology Award*

**William R. Brice**, University of Pittsburgh

*Gerry and Sue Friedman Award for Distinguished Service  
(to be named)*

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## HYDROGEOLOGY DIVISION

*O.E. Meinzer Award*

**Shemin Ge**, University of Colorado

*Birdsall-Dreiss Distinguished Lecturer (2018)*

**David Boutt**, University of New Mexico

*George Burke Maxey Distinguished Service Award*

**Todd Halihan**, Oklahoma State University

*Kohout Early Career Award*

**Scott Jasechko**, University of Calgary

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## LIMNOGEOLOGY DIVISION

*Israel C. Russell Award*

**Sherilyn C. Fritz**, University of Nebraska

*Kerry Kelts Student Research Awards*

**Ellie Broadman**, Northern Arizona University

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## MINERALOGY, GEOCHEMISTRY, PETROLOGY, AND VOLCANOLOGY DIVISION

*Distinguished Geologic Career Award*

**Calvin F. Miller**, Vanderbilt University

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*Early Career Award*

**Christopher W. Hamilton**, University of Arizona  
*MGPV Student Research Grant Award*  
**Fotios Fouskas**, Indiana University–Purdue University  
Indianapolis  
**Jacob Klug**, University of Wisconsin–Madison  
**Bryan Maciag**, Dalhousie University  
**Donald Maute**, Texas Tech University  
**Ezequiel A. Moreno Flores**, The University of Texas at El Paso  
**Hannah Shamloo**, Arizona State University

PLANETARY GEOLOGY DIVISION

*G.K. Gilbert Award*  
**Jeffrey M. Moore**, NASA Ames Research Center  
*Ronald Greeley Award for Distinguished Service*  
**Kelsi N. Singer**, Southwest Research Institute  
*Stephen E. Dwornik Research Awards*  
*Best Graduate Oral: Xinting Yu*, Johns Hopkins University  
*Honorable Mention Graduate Oral: Erica Jawin*,  
Brown University  
*Best Undergraduate Oral: Jordan Bretzfelder*, University of  
Southern California  
*Honorable Mention Undergraduate Oral: Aleksandra*  
**Gawronska**, University of Notre Dame  
*Best Graduate Poster: Daniel R. Dunlap*, Arizona State  
University  
*Honorable Mention Graduate Poster: Ellen Leask*, California  
Institute of Technology  
*Best Undergraduate Poster: Samuel Cartwright*,  
Middlebury College  
*Honorable Mention Undergraduate Poster: Charlene Detelich*,  
North Carolina State University  
*Pellas-Ryder Award*  
**Emily Worsham**, University of Maryland

QUATERNARY GEOLOGY AND  
GEOMORPHOLOGY DIVISION

*Kirk Bryan Award for Research Excellence*  
**Karen B. Gran**, University of New Mexico, **Noah Finnegan**,  
University of California Santa Cruz, **Andrea L. Johnson**,  
University of Minnesota–Duluth, **Patrick Belmont**, Utah State  
University, **Chad Wittkop**, Minnesota State University–Mankato,  
and **Tammy Rittenour**, Utah State University: 2013, Landscape  
evolution, valley excavation, and terrace development following  
abrupt postglacial base-level fall: *Geological Society of America*  
*Bulletin*, v. 125, no. 11/12, p. 1851–1864.  
*Distinguished Career Award*  
**Ellen Wohl**, Colorado State University  
*Farouk El-Baz Award for Desert Research*  
**Paul Hesse**, Macquarie University, Australia  
*Gladys W. Cole Research Award*  
**Joan Florsheim**, University of California Santa Barbara

SEDIMENTARY GEOLOGY DIVISION

*Laurence L. Sloss Award*  
**Kenneth G. Miller**, Rutgers University  
*Stephen E. Laubach Structural Diagenesis Research Award*  
*(Joint with the Structural Geology and Tectonics Division)*  
**William T. Jackson**, University of South Alabama

STRUCTURAL GEOLOGY AND TECTONICS DIVISION

*Career Contribution Award*  
**Elizabeth L. Miller**, Stanford University  
*Outstanding Publication Award*  
**Jones, C.H., Reeg, H., Zandt, G., Gilbert, H., Owens, T.J., and**  
**Stachnik, J.**, 2014, P-wave tomography of potential convective  
downwellings and their source regions, Sierra Nevada, California:  
*Geosphere*, v. 10, p. 505–533.

**Other awards presented at the annual meeting include:**

GSA INTERNATIONAL

*James B. Thompson, Jr., Distinguished International*  
*Lecturer Award*  
**Holly Michael**, University of Delaware  
**Manfred Strecker**, University of Potsdam  
*GSA International Distinguished Career Award*  
**Peter Molnar**, University of Colorado Boulder

CUSHMAN FOUNDATION

*W. Storrs Cole Memorial Research Award*  
**Dorothy Pak**, Marine Science Institute of the University of  
California Santa Barbara

AMERICAN GEOSCIENCES INSTITUTE

*AGI Medal in Memory of Ian Campbell*  
**Scott W. Tinker**, The University of Texas at Austin

## GSA Fellowship

Fellowship is an honor that is bestowed on the best of our profession once per year at the spring GSA Council meeting and is recognized at GSA's Annual Meeting. GSA members are elected to Fellowship in recognition of distinguished contributions to the geosciences. A member can be nominated for Fellowship only by a Fellow of the Society who initiates the process by completing the nomination form and identifying two other Fellows, or one Fellow and one member, who agree to support the nomination. A GSA Fellow may only support two nominees per election cycle and only one as a primary nominator.

### How to Nominate

Primary nominator:

1. Completes online nomination form at [www.geosociety.org/FellowNoms](http://www.geosociety.org/FellowNoms);
2. Writes a letter of support;
3. Collects two additional letters of support (one must be from a Fellow; both must be GSA members);
4. Obtains nominees' current CV or résumé; and
5. Submits all documents in one packet to [awards@geosociety.org](mailto:awards@geosociety.org).

## 2019 Student Research Grants

GSA is proud to offer research grants to its highly qualified student members. Graduate students may receive a total of two GSA graduate student research grants in their entire academic career, regardless of what program they are currently enrolled in. The maximum award per grant is US\$2,500. Graduate students may also qualify for specialized awards; if so, the total awarded could be more than US\$2,500. Apply online starting 1 Dec. 2018. Submissions must be completed by 1 Feb. 2019 at 5 p.m. MST.

The GSA Graduate Student Research Grant Program is supported by the National Science Foundation under Grant No. 1712071.

For more information, go to [www.geosociety.org/grants](http://www.geosociety.org/grants), email [researchgrants@geosociety.org](mailto:researchgrants@geosociety.org), or call +1-303-357-1025.



## Minority-Serving Institution Travel Awards

This year, GSA awarded 10 individuals attending six minority-serving institutions travel grants to attend the GSA 2018 Annual Meeting in Indianapolis, Indiana, USA. The awards support GSA's commitment to diversity and were offered to help support the participation of faculty and student groups who may not otherwise have been able to attend the meeting. Funding for the awards is based upon work supported by the National Science Foundation under grant no. 1713930.

### Brooklyn College

Shannon Brophy  
Kayla Irizarry  
Alison Rowe

### Florida International University

Nicole Cordoba  
Allison Huisa  
Thomas Zerquera

### Jackson State University

Spencer Williams

### John A. Logan

Community College  
Laura O'Connell

### University of Houston

–Clear Lake  
Daniel Imrecke

### University of Puerto Rico

–Mayagüez  
Pricilla Ortiz Carrero

## 2018–2019 GSA-USGS Congressional Science Fellow Announced



Caitlin Keating-Bitonti

GSA and the U.S. Geological Survey are pleased to announce that Caitlin Keating-Bitonti will serve as the 2018–2019 GSA-USGS Congressional Science Fellow. She will spend a year working in the office of Senator Tom Udall (D-NM)

Keating-Bitonti is an earth scientist with expertise in paleontology. As a native of southeast Michigan, she grew up collecting ancient marine fossils, developing a strong interest in the planet’s history and concern for its future. Pursuing this passion in graduate school, Keating-Bitonti reconstructed ancient climate and ocean conditions, studying microfossil assemblages and their isotopic compositions’ as a National Science Foundation Graduate Research Fellow. Her research integrates paleontology, geology, oceanography, physiology, and statistical models to examine how ancient marine organisms responded to past environmental perturbations and how these climate shifts shaped their evolutionary history.

Recognizing that the geosciences are a vital public concern but are rarely included in a typical high school curriculum, Keating-Bitonti became committed to geoscience education and outreach. During her graduate career, she mentored more than 10 high school students and teamed with two other graduate students to develop and teach a climate change science course at a preparatory school in Palo Alto, California, USA. After receiving her Ph.D. from Stanford University, Keating-Bitonti joined the Smithsonian National Museum of Natural History as a Peter Buck Postdoctoral Fellow, where she continued her research and also participated in museum outreach. Her time in Washington, D.C., solidified her desire to be involved in the policy-making process and to advocate that our practices and policies be informed by scientific knowledge. She is excited to have the opportunity to serve as the 2018–2019 GSA-USGS Congressional Science Fellow.

Keating-Bitonti earned her B.S. in geology from Syracuse University, her M.S in geology from the University of Wisconsin–Madison, and her Ph.D. in geological and environmental sciences from Stanford University.

# GSA Division Milestones

GSA acknowledges and congratulates the  
Geology and Society Scientific Division  
for meeting this milestone:



GSA’s **Geology and Society Scientific Division** turns 15 years old this year. Established in 2003, this Division seeks to advance the concept of “geology working for society” by providing GSA members with opportunities to bring together multiple fields of geoscience to address important societal issues. This Division actively hosts interdisciplinary symposia at national and regional meetings, provides forums to help its members effectively communicate with decision makers and the public, encourages student achievement in helping to inform public policy by sponsoring a Best Student Presentation Award at the annual meeting, and honors professional achievement in enhancing public policy by presenting a distinguished lecture at the annual meeting. The Division also works closely with the Geology and Public Policy Committee to develop and distribute GSA position statements. Learn more at [community.geosociety.org/gsocdivision/home](http://community.geosociety.org/gsocdivision/home).

## Recent, Rare, and Out-of-Print Books



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## Why GSA Membership Is Important

*Real Reasons from Real Members\**



“ Access to information and research I wouldn't get anywhere else, connections to new opportunities, and having a feeling of belonging. ”

“ An indispensable source of professional development and career-oriented resources and guidance. ”



“ A vibrant and diverse society ensuring that I am always exposed to new innovative ideas from every corner of the globe, which keeps my thought-processes on edge. ”

“ A huge part of networking and advancing as a young professional. I have felt supported and challenged by participating in GSA. ”



“ Opportunity to connect, reconnect, get inspired, and inspire others. ”

“ Being part of a larger community that galvanizes the voice of scientists and helps us share ideas, communicate their findings, interact with the public, and connect with policymakers. ”



“ Working in industry, GSA is critical to stay current on research in the geosciences, and GSA provides a "lifeline" to the research community. ”

\*Member quotes are from GSA's Strategic Planning Survey



# MEMBERSHIP 2019

[www.geosociety.org/members](http://www.geosociety.org/members)

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# CORDILLERAN SECTION

115th Annual Meeting,  
Cordilleran Section, GSA  
15–17 May 2019  
Portland, Oregon, USA

[www.geosociety.org/cd-mtg](http://www.geosociety.org/cd-mtg)



Portland, Oregon, USA, at night; photo courtesy Portland Travels.

## LOCATION

Portland, Oregon, USA—the City of Roses—is located in the heart of one of the most dynamic geologic environments in the West, having been affected by megathrust earthquakes, giant flood-basalt eruptions, catastrophic glacial floods, continuing fluvial and hillslope processes, and human influences on the landscape. Founded along the banks of the Columbia and Willamette rivers, Portland is nestled between the magnificent volcanic arc of the Cascade Range to the east and the Coast Range to the west. Building on the exceptional local and regional geological features of the Cordillera, we have devised a diverse program reflecting fundamental and applied aspects across earth-science disciplines.

## CALL FOR PAPERS

**Abstract deadline:** 5 Feb. 2019

Submit abstracts online at [www.geosociety.org/cd-mtg](http://www.geosociety.org/cd-mtg). The submission fee is US\$18 for students and US\$30 for all others. For questions about online submission, please contact Heather Clark, +1-303-357-1018, [hclark@geosociety.org](mailto:hclark@geosociety.org).

## THEME SESSIONS

In addition to the following Theme Sessions, we are soliciting abstracts for general discipline sessions.

- T1. **Cordilleran Tectonics from the Basin and Range to Alaska and the Arctic: A Celebration of Elizabeth Miller's Career (2018 GSA Structure and Tectonics Division Career Contribution Award).** Jeff Lee, Central Washington Univ., [jeff@geology.cwu.edu](mailto:jeff@geology.cwu.edu); Victoria Pease, Stockholm Univ., [vicky.pease@geo.su.se](mailto:vicky.pease@geo.su.se).
- T2. **Advances in Seismic Hazard Assessment through Paleoseismic and Tectonic Geomorphic Fault Studies: In Honor of Ray J. Weldon II, for His Career and Contributions to the Field.** Ashley Streig, Portland State Univ., [streig@pdx.edu](mailto:streig@pdx.edu); Kate Scharer, USGS, [kscharer@usgs.gov](mailto:kscharer@usgs.gov); Scott Bennett, USGS, [sekbennett@usgs.gov](mailto:sekbennett@usgs.gov).
- T3. **A Simple Twist of Plate: In Honor of the Career Contributions of the Dynamic Duo—Rick Blakely and Ray Wells—to Understanding Plate Interactions and Deformation in Cascadia.** Andrew Meigs, Oregon State Univ., [meigsa@geo.oregonstate.edu](mailto:meigsa@geo.oregonstate.edu); Scott Bennett, USGS, [sekbennett@usgs.gov](mailto:sekbennett@usgs.gov); Peter Haeussler, USGS, [pheuslr@usgs.gov](mailto:pheuslr@usgs.gov).
- T4. **Recent Advances in Cordilleran Tectonic Evolution—1: Paleozoic to Mesozoic.** Jamie MacDonald, Florida Gulf Coast Univ., [jmacdona@fgcu.edu](mailto:jmacdona@fgcu.edu); Joe Dragovich, Associated Earth Sciences Inc., [jdragovich@aesgeo.com](mailto:jdragovich@aesgeo.com); Megan Anderson, Washington Dept. of Natural Resources, [megan.anderson@dnr.wa.gov](mailto:megan.anderson@dnr.wa.gov); Peter Davis, Pacific Lutheran Univ., [davispb@plu.edu](mailto:davispb@plu.edu); Jeffrey Tepper, Univ. of Puget Sound, [jtepper@pugetsound.edu](mailto:jtepper@pugetsound.edu).
- T5. **Recent Advances in Cordilleran Tectonic Evolution—2: Cenozoic.** Jamie MacDonald, Florida Gulf Coast Univ., [jmacdona@fgcu.edu](mailto:jmacdona@fgcu.edu); Joe Dragovich, Associated Earth Sciences Inc., [jdragovich@aesgeo.com](mailto:jdragovich@aesgeo.com); Megan Anderson, Washington Dept. of Natural Resources, [megan.anderson@dnr.wa.gov](mailto:megan.anderson@dnr.wa.gov); Peter Davis, Pacific Lutheran Univ., [davispb@plu.edu](mailto:davispb@plu.edu); Jeffrey Tepper, Univ. of Puget Sound, [jtepper@pugetsound.edu](mailto:jtepper@pugetsound.edu).
- T6. **Tectonic Development of the Coast Mountains, British Columbia and Alaska.** Margi Rusmore, Occidental College, [rusmore@oxy.edu](mailto:rusmore@oxy.edu); M. Robinson Cecil, CSU–Northridge, [robinson.cecil@csun.edu](mailto:robinson.cecil@csun.edu); George Gehrels, Univ. of Arizona, [ggehrels@gmail.com](mailto:ggehrels@gmail.com); Harold Stowell, Univ. of Alabama, [hstowell@ua.edu](mailto:hstowell@ua.edu).
- T7. **Constraints on Insular Superterrane Collision and Translation: Current Thinking on the Baja-BC Hypothesis.** Basil Tikoff, Univ. of Wisconsin, [basil@geology.wisc.edu](mailto:basil@geology.wisc.edu); Darrel S. Cowan, Univ. of Washington, [darrel@uw.edu](mailto:darrel@uw.edu); Paul Umhoefer, Northern Arizona Univ., [paul.umhoefer@nau.edu](mailto:paul.umhoefer@nau.edu).
- T8. **Paleogene Tectonic Setting of the Greater Pacific NW before Cascadia: From Siletzia to the Challis Belt.** Paul Umhoefer, Northern Arizona Univ., [paul.umhoefer@nau.edu](mailto:paul.umhoefer@nau.edu); Robert Miller, San José State Univ., [robert.b.miller@sjsu.edu](mailto:robert.b.miller@sjsu.edu); Jeff Tepper, Univ. of Puget Sound, [jtepper@pugetsound.edu](mailto:jtepper@pugetsound.edu).
- T9. **Tectonic Processes in Cordilleran Arcs.** Stacia Gordon, Univ. of Nevada–Reno, [staciag@unr.edu](mailto:staciag@unr.edu); Robert Miller, San José State Univ., [robert.b.miller@sjsu.edu](mailto:robert.b.miller@sjsu.edu).

- T10. **Crystal Windows into Igneous Processes.** Anne Fulton, Univ. of Oregon, [afulton2@uoregon.edu](mailto:afulton2@uoregon.edu); Michelle Muth, Univ. of Oregon, [mmuth@uoregon.edu](mailto:mmuth@uoregon.edu); Nicole Rocco, Oregon State Univ., [rocco@oregonstate.edu](mailto:rocco@oregonstate.edu).
- T11. **Advances in the Formation, Storage, Eruption, and Emplacement of Evolved Magma Bodies.** Madison Myers, Montana State Univ., [madison.myers@montana.edu](mailto:madison.myers@montana.edu); Laura Waters, Sonoma State Univ., [watersla@sonoma.edu](mailto:watersla@sonoma.edu); Jim Watkins, Univ. of Oregon, [watkins4@uoregon.edu](mailto:watkins4@uoregon.edu); Nathan Andersen, Univ. of Oregon, [nla@uoregon.edu](mailto:nla@uoregon.edu); John Wolff, Washington State Univ., [jawolff@wsu.edu](mailto:jawolff@wsu.edu).
- T12. **Field, Petrological, and Geochemical Constraints on Magmatic Systems in the Cordillera.** Wendy Bohrsen, Central Washington Univ., [bohrsen@geology.cwu.edu](mailto:bohrsen@geology.cwu.edu); Anita Grunder, Oregon State Univ., [grundera@geo.oregon-state.edu](mailto:grundera@geo.oregon-state.edu).
- T13. **The Yellowstone Hotspot Province: Prehistory, Timing, Extent, Volcanic Products, and Hydrothermal Consequences.** Arron Steiner, Washington State Univ., [arron@wsu.edu](mailto:arron@wsu.edu); John Wolff, Washington State Univ., [jawolff@wsu.edu](mailto:jawolff@wsu.edu); Martin Streck, Portland State Univ., [streckm@pdx.edu](mailto:streckm@pdx.edu).
- T14. **Magmatism of the Columbia River Flood Basalt Province.** Seth Burgess, USGS, [sburgess@usgs.gov](mailto:sburgess@usgs.gov); Michael Sawlan, USGS, [msawlan@usgs.gov](mailto:msawlan@usgs.gov).
- T15. **Magmatism in the Cascades: Variations in Space and Time.** Adam Kent, Oregon State Univ., [adam.kent@geo.oregonstate.edu](mailto:adam.kent@geo.oregonstate.edu); John Dilles, Oregon State Univ., [grunderdilles@gmail.com](mailto:grunderdilles@gmail.com); Anita Grunder, Oregon State Univ., [grundera@geo.oregonstate.edu](mailto:grundera@geo.oregonstate.edu).
- T16. **Landscape Evolution and Tectonic Geomorphology in the Greater Pacific Northwest.** Matthew Morriss, Univ. of Oregon, [mmorriss9@uoregon.edu](mailto:mmorriss9@uoregon.edu); Phil Greene, Univ. of Washington, [philip.greene@gmail.com](mailto:philip.greene@gmail.com); Will Struble, Univ. of Oregon, [wstruble@uoregon.edu](mailto:wstruble@uoregon.edu); Lydia Staisch, USGS, [lstaisch@usgs.gov](mailto:lstaisch@usgs.gov).
- T17. **Landscape Changes at Various Temporal and Spatial Scales.** Allen Gontz, San Diego State Univ., [agontz@sdsu.edu](mailto:agontz@sdsu.edu); Josh Kelly, San Diego State Univ., [jtkelly@sdsu.edu](mailto:jtkelly@sdsu.edu).
- T18. **Interactions between Water and Volcanic Terranes.** Erick Burns, USGS, [eburns@usgs.gov](mailto:eburns@usgs.gov); Gordon Grant, U.S. Forest Service, [gordon.grant@oregonstate.edu](mailto:gordon.grant@oregonstate.edu); Steven Ingebritsen, USGS, [seingebr@usgs.gov](mailto:seingebr@usgs.gov).
- T19. **The Evolution of the Columbia River: Fluvial, Volcanic, and Tectonic Interactions from Miocene to Modern Time.** Lydia Staisch, USGS, [lstaisch@usgs.gov](mailto:lstaisch@usgs.gov); Jim O'Connor, USGS, [occonnor@usgs.gov](mailto:occonnor@usgs.gov).
- T20. **Glaciers of the North American West.** Andrew G. Fountain, Portland State Univ., [andrew@pdx.edu](mailto:andrew@pdx.edu); Claire Todd, Pacific Lutheran Univ., [toddce@plu.edu](mailto:toddce@plu.edu); Erin Whorton, USGS, [ewhorton@usgs.gov](mailto:ewhorton@usgs.gov).
- T21. **Understanding Sediment Transport Dynamics in Mountain Environments.** Scott W. Anderson, USGS, [swanderson@usgs.gov](mailto:swanderson@usgs.gov); Kristen Jaeger, USGS, [kjaeger@usgs.gov](mailto:kjaeger@usgs.gov).
- T22. **New Insights in River Processes and Implications for Floodplain Management and Restoration.** Mackenzie Keith, USGS, [mkeith@usgs.gov](mailto:mkeith@usgs.gov); Laurel Stratton, USGS, [lstratton@usgs.gov](mailto:lstratton@usgs.gov).
- T23. **Landslides: Hazards and Agents of Landscape Evolution.** Adam Booth, Portland State Univ., [boothad@pdx.edu](mailto:boothad@pdx.edu); Susan Shaw, Weyerhaeuser Co., [susan.shaw2@weyerhaeuser.com](mailto:susan.shaw2@weyerhaeuser.com); Dan Shugar, Univ. of Washington–Tacoma, [dshugar@uw.edu](mailto:dshugar@uw.edu); Scott Burns, Portland State Univ., [burnss@pdx.edu](mailto:burnss@pdx.edu).
- T24. **Geologic Maps: Essential Framework Tools Used to Solve Practical Earth Science Problems (Posters).** Jason McLaughry, Oregon DOGAMI, [jason.mcclaughry@oregon.gov](mailto:jason.mcclaughry@oregon.gov); Carlie Duda, Oregon DOGAMI, [carlie.duda@oregon.gov](mailto:carlie.duda@oregon.gov).
- T25. **Geologic Hazards: Hazard Maps, Risk Analysis, and Risk Reduction.** William Burns, Oregon DOGAMI, [bill.burns@oregon.gov](mailto:bill.burns@oregon.gov); Nancy Calhoun, Oregon DOGAMI, [nancy.calhoun@oregon.gov](mailto:nancy.calhoun@oregon.gov); Christina Appleby, Oregon DOGAMI, [christina.appleby@oregon.gov](mailto:christina.appleby@oregon.gov).
- T26. **Groundwater Resources of Oregon: Celebrating the Scientific Curiosity of Ken Lite and Marshall Gannett.** Esther Pischel, USGS, [epischel@usgs.gov](mailto:epischel@usgs.gov); Amanda Garcia, USGS, [cgarcia@usgs.gov](mailto:cgarcia@usgs.gov); Walter Burt, GSI Water Solutions, [wburt@gsiws.com](mailto:wburt@gsiws.com).
- T27. **Hydrogeology of Coastal Basins of the Western United States.** Donald Sweetkind, USGS, [dsweetkind@usgs.gov](mailto:dsweetkind@usgs.gov); Geoffrey Cromwell, USGS, [gcromwell@usgs.gov](mailto:gcromwell@usgs.gov).
- T28. **Lakes across the West: Archives of Climate Change and Storehouse of Economic Resources.** Scott W. Starratt, USGS, [ssarrat@usgs.gov](mailto:ssarrat@usgs.gov).
- T29. **Hydrogeology of Springs in the Great Basin.** Hank Johnson, USGS, [hjohnson@usgs.gov](mailto:hjohnson@usgs.gov); Steve Gingerich, USGS, [sbginger@usgs.gov](mailto:sbginger@usgs.gov); Nick Corson-Dosch, USGS, [ncorson-dosch@usgs.gov](mailto:ncorson-dosch@usgs.gov).
- T30. **Undergraduate Research (Posters).** Jeff Marshall, Cal Poly Pomona, [marshall@cpp.edu](mailto:marshall@cpp.edu).
- T31. **Hands-On Teaching Demonstrations in Introductory Geoscience Courses: Audience Participation Requested!** Daina Hardisty, Mt. Hood Community College, [hardistd@mhcc.edu](mailto:hardistd@mhcc.edu); Andrew Hilt, Portland Community College, [andrew.hilt@pcc.edu](mailto:andrew.hilt@pcc.edu); Eriks Puris, Portland Community College, [eriks.puris@pcc.edu](mailto:eriks.puris@pcc.edu).
- T32. **Where the Next Generation Science Standards Meet Place-Based and Outdoor Learning.** Nancy Price, Portland State Univ., [naprice@pdx.edu](mailto:naprice@pdx.edu).
- T33. **Geoscience Education Research and Practice.** Robyn Miekko Dahl, Western Washington Univ., [robyn.dahl@wwu.edu](mailto:robyn.dahl@wwu.edu); Natalie Bursztyn, Quest Univ., [natalie.bursztyn@questu.ca](mailto:natalie.bursztyn@questu.ca); Katrien van der Hoeven Kraft, Whatcom Community College, [kkraft@whatcom.edu](mailto:kkraft@whatcom.edu).
- T34. **Keep the Anthropocene Weird: Where Have We Come From, What Are We Doing, and How Will We Proceed?** Sammy Castonguay, Treasure Valley Community College, [scastonguay@tvcc.cc](mailto:scastonguay@tvcc.cc).



## FIELD TRIPS

Trip registration will open in Feb. 2019. For additional information, please contact Field Trip Chair Jason McLaughry at [jason.mcclaughry@oregon.gov](mailto:jason.mcclaughry@oregon.gov).

**Active Tectonics and Bedrock Geology of the North American Plate at the Latitude of the Columbia River: A Field Trip to Recognize the Contributions of Ray Wells and Rick Blakely—the Dynamic Duo of Pacific Northwest Geology and Geophysics.** Andrew Meigs, Oregon State Univ. [meigsa@geo.oregonstate.edu](mailto:meigsa@geo.oregonstate.edu); Ray E. Wells, USGS, [rwells@usgs.gov](mailto:rwells@usgs.gov); Scott Bennett, USGS, [sekbennett@usgs.gov](mailto:sekbennett@usgs.gov).

**The Columbia River Basalt in the Western Columbia Basin and Columbia River Gorge.** Michael Sawlan, USGS, [msawlan@usgs.gov](mailto:msawlan@usgs.gov); Ray Wells, USGS, [rwells@usgs.gov](mailto:rwells@usgs.gov); Jon Hagstrum, USGS, [jhag@usgs.gov](mailto:jhag@usgs.gov); Seth Burgess, USGS, [sburgess@usgs.gov](mailto:sburgess@usgs.gov).

**Volcanism, Sedimentation, and Tectonics in the Hood River Graben: A Pliocene to Quaternary Intra-Arc Half Graben in the Northern Oregon Cascade Range.** 13–14 May. Jason D. McLaughry, Oregon DOGAMI, [jason.mcclaughry@oregon.gov](mailto:jason.mcclaughry@oregon.gov); Clark Niewendorp, Oregon DOGAMI.

**Flood Basalts, Rhyolites, and Pre- to Postdating Volcanism of the Columbia River Province in Eastern Oregon.** Martin J. Streck, Portland State Univ., [streckm@pdx.edu](mailto:streckm@pdx.edu); Mark L. Ferns, Eastern Oregon Univ., [mferns@eou.edu](mailto:mferns@eou.edu); Emily Cahoon, Portland State Univ., [ecahoon@pdx.edu](mailto:ecahoon@pdx.edu).

**Columbia River Basalt Hydrology and Management Solutions in the Mosier Basin, Oregon.** Kenneth E. Lite Jr., Oregon Water Res. Dept., [kenneth.e.lite@oregon.gov](mailto:kenneth.e.lite@oregon.gov); Robert B. Perkins, Portland State Univ., [rperkins@pdx.edu](mailto:rperkins@pdx.edu); Erik A. Thomasser, Oregon Water Res. Dept., [erik.a.thomasser@oregon.gov](mailto:erik.a.thomasser@oregon.gov); Jonathan L. LaMarche, Oregon Water Res. Dept., [jon.l.lamarche@oregon.gov](mailto:jon.l.lamarche@oregon.gov); Aurora C. Bouchier, Oregon Water Res. Dept., [aurora.c.bouchier@oregon.gov](mailto:aurora.c.bouchier@oregon.gov).

**Landslides in the Columbia River Gorge.** 14 May. William J. Burns, Oregon DOGAMI, [bill.burns@oregon.gov](mailto:bill.burns@oregon.gov); Nancy Calhoun, Oregon DOGAMI, [nancy.calhoun@oregon.gov](mailto:nancy.calhoun@oregon.gov); Trevor Contreras, Washington Geological Survey, [trevor.contreras@dnr.wa.gov](mailto:trevor.contreras@dnr.wa.gov); Kara Jacobacci, Washington Geological Survey, [kara.jacobacci@dnr.wa.gov](mailto:kara.jacobacci@dnr.wa.gov); Kate Mickelson, Washington Geological Survey, [kate.mickelson@dnr.wa.gov](mailto:kate.mickelson@dnr.wa.gov); Will Gallin, Washington Geol. Survey, [william.gallin@dnr.wa.gov](mailto:william.gallin@dnr.wa.gov).

**Mount St. Helens—Its 1980 Eruption and 39 Years of Post-Eruption Recovery.** 18 May. Jon Major, USGS, [jjmajor@usgs.gov](mailto:jjmajor@usgs.gov).

**Visit to Rice Museum of Rocks and Minerals.** Julian Gray, executive director, [julian@ricenorthwestmuseum.org](mailto:julian@ricenorthwestmuseum.org);

Leslie Moclock, curator, [leslie@ricenorthwestmuseum.org](mailto:leslie@ricenorthwestmuseum.org).

**Terroir of Wine: Relationship of Wine to Soils, Geology, and Climate.** Scott Burns, Portland State Univ., [burnss@pdx.edu](mailto:burnss@pdx.edu).

## SHORT COURSE

**Assessing Contaminant Sources and Aquifer Continuity in Soil/Groundwater using Stable Isotopes of Strontium (Sr) and Lead (Pb).** Richard W. Hurst, California Lutheran University, [rhurst@callutheran.edu](mailto:rhurst@callutheran.edu).

## REGISTRATION

**Early registration deadline:** 8 Apr. 2019

**Cancellation deadline:** 15 Apr. 2019

Registration opens in Feb. 2019. For further information or if you need special accommodations, please contact one of the conference chairs: Martin Streck, [streckm@pdx.edu](mailto:streckm@pdx.edu), or Jim O'Connor, [occonnor@usgs.gov](mailto:occonnor@usgs.gov).

## ACCOMMODATIONS

A block of rooms has been reserved at the DoubleTree by Hilton at 1000 NE Multnomah St., Portland, OR 97232, a few blocks from the Oregon Convention Center, where the conference will be held. The meeting room rate is US\$199 per night plus tax. Reservations can be made at [https://doubletree.hilton.com/en/dt/groups/personalized/R/RLLC-DT-MCS-20190513/index.jhtml?WT.mc\\_id=POG](https://doubletree.hilton.com/en/dt/groups/personalized/R/RLLC-DT-MCS-20190513/index.jhtml?WT.mc_id=POG). Reservations can also be made by calling the hotel directly at +1-503-281-6111 or by calling the toll-free reservations hotline at +1-800-996-0510. Please refer to our group code, MCS, when booking rooms.

## MENTOR PROGRAMS

**Roy J. Shlemon Mentor Program in Applied Geoscience.**

Students and early career professionals will have the opportunity to discuss career prospects and challenges with applied geoscientists from various sectors over a FREE lunch.

**John Mann Mentors in Applied Hydrogeology Program.**

Students and early career professionals interested in applied hydrogeology or hydrology as a career will have the opportunity to network with professionals in these fields over a FREE lunch. Learn more at [www.geosociety.org/mentors](http://www.geosociety.org/mentors).

## GEOSCIENCE CAREER WORKSHOPS

**Part 1: Career Planning and Informational Interviewing.** Your job hunting process should begin with career planning, not when you apply to jobs. This workshop will help you begin this process and will introduce you to informational interviewing. This section is highly recommended for freshmen, sophomores, and juniors. The earlier you start your career planning the better.

**Part 2: Geoscience Career Exploration.** What do geologists in various sectors earn? What do they do? What are the pros and cons to working in academia, government, and industry? Workshop presenters and professionals in the field will address these issues.

**Part 3: Cover Letters, Résumés, and CVs.** How do you prepare a cover letter? Does your résumé need a good edit? Whether you are currently in the market for a job or not, learn how to prepare the best résumé possible. You will review numerous résumés helping you to learn important résumé dos and don'ts.

## ORGANIZING COMMITTEE


**Meeting General Chairs:** Martin Streck, [streckm@pdx.edu](mailto:streckm@pdx.edu); Jim O'Connor, [occonnor@usgs.gov](mailto:occonnor@usgs.gov)

**Technical Program Chairs:** Matt Brunengo, [mbruneng@pdx.edu](mailto:mbruneng@pdx.edu); Erick Burns, [eburns@usgs.gov](mailto:eburns@usgs.gov)

**Field Trip Chairs:** Jason McLaughry, [jason.mcclaughry@oregon.gov](mailto:jason.mcclaughry@oregon.gov); Clark Niewendorp, [clark.niewendorp@oregon.gov](mailto:clark.niewendorp@oregon.gov); Bob Houston, [robert.houston@mlrr.oregongeology.com](mailto:robert.houston@mlrr.oregongeology.com)

**Workshop Chair:** Frank Granshaw, [fgransha@pdx.edu](mailto:fgransha@pdx.edu)

**Student Volunteers, Exhibits:** Frank Granshaw, [fgransha@pdx.edu](mailto:fgransha@pdx.edu)  
**Sponsorship Chair:** Scott Burns, [burnss@pdx.edu](mailto:burnss@pdx.edu)




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# Field Volcanology:

## A Tribute to the Distinguished Career of Don Swanson

Edited by Michael P. Poland, Michael O. Garcia,  
Victor E. Camp, and Anita Grunder

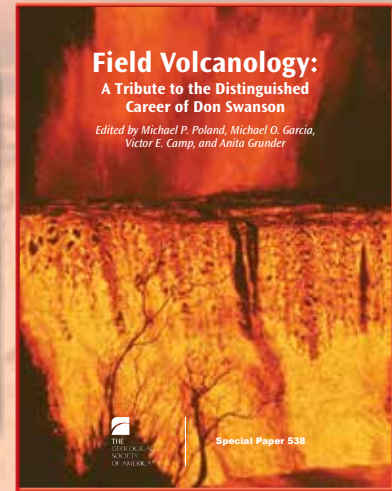
Don Swanson, who received the GSA Mineralogy, Geochemistry, Petrology, and Volcanology Division's Distinguished Geologic Career award in 2016, has adopted a detailed, field-oriented approach to studying problems of great volcanologic importance across a range of compositions and spatio-temporal scales. Swanson's work has resulted in a series of fundamental contributions that have advanced understanding of the Columbia River flood basalts, Cascade volcanic arc, and Hawai'i, and his insights have been applied not only around the world, but across the solar system. This volume emphasizes the role of field volcanology as a window into better understanding volcanic processes past and present, and highlights, in particular, those places and processes where Swanson's insights have been particularly impactful.

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### 2019–2020 GSA-USGS Congressional Science Fellowship

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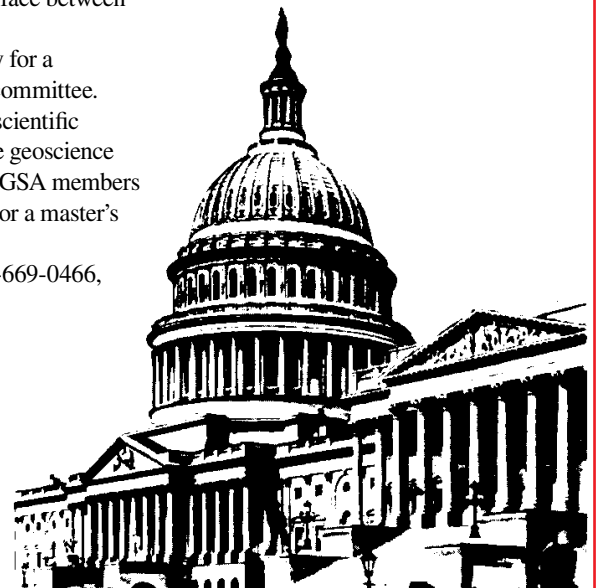
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# Geoscience Jobs & Opportunities

## Positions Open

### TENURE-TRACK ASSISTANT/ TENURED ASSOCIATE PROFESSOR IN CLIMATE SCIENCE, UNIVERSITY OF TEXAS AT AUSTIN

The Dept. of Geological Sciences (DGS) at The University of Texas at Austin invites applications for a tenure-track Assistant or tenured Associate Professor in the broad area of climate science. The successful candidate will develop a high-quality research program that could include weather-climate interactions, climate extremes, biogeochemical cycles, sea level rise, and/or paleoclimate. Approaches involving observations, theory, field experiments, or modeling are all welcome. We are especially interested in candidates who will expand and complement existing strengths in climate science within the department and across the University. The selected candidate will be a committed educator, enthusiastically teaching undergraduate and graduate courses and will be able to interact in teaching and research with colleagues having complimentary interests at The University of Texas at Austin. In addition, the applicant is expected to have a commitment to student supervision and advising of both graduate and undergraduate students in research.

The department has one of the largest combined graduate and undergraduate enrollments of any Earth science program in North America and is located in a thriving metropolitan area with a dynamic, multicultural community of over 1 million people. Further information about DGS is available at <http://jsg.utexas.edu/dgs>. The University of Texas at Austin is an Equal Opportunity Employer with a commitment to diversity at all levels.

Review application requirements and submit electronic copies of these materials online at <https://apply.interfolio.com/55028>. Applicant review will begin on Nov 1, 2018, and continue until the position is filled.

### ENDOWED CHAIR IN SEDIMENTARY GEOLOGY, UNIVERSITY OF TEXAS AT AUSTIN

The Dept. of Geological Sciences in the Jackson School of Geosciences at The University of Texas at Austin is seeking an Endowed Chair in Sedimentary Geology to fill a tenured position at the full professor level. We seek a creative individual who has an innovative research program in sedimentary geology and addresses questions related to clastic sedimentation, dynamic stratigraphy, depositional systems, and basin architecture over geological time scales, with broad applicability to the energy industry. A demonstrated ability to integrate a range of approaches and data types is required, potentially including field-based inquiry, linked surface and subsurface investigations, incorporation of seismic data, and analytical or modeling approaches. The successful candidate will be expected to establish an internationally recognized research program and excel at teaching, mentoring, and service roles within the department, and should have a strong record of securing external research funds. We seek an individual who facilitates collaborations among faculty, researchers, and students in the department and university, and is capable of teaching

courses over a wide range of geoscience topics, particularly courses in stratigraphy, sedimentology, and basin analysis.

The department has one of the largest combined graduate and undergraduate enrollments of any Earth science program in North America and is located in a thriving metropolitan area with a dynamic, multicultural community of over 1 million people. Further information about DGS is available at <http://jsg.utexas.edu/dgs>. The University of Texas at Austin is an Equal Opportunity Employer with a commitment to diversity at all levels.

Review application requirements and submit electronic copies of these materials online at <https://apply.interfolio.com/55030>. Applicant review will begin on Nov 1, 2018, and continue until the position is filled.

### FACULTY POSITION GEOLOGICAL ENGINEERING, MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY

<https://ggpe.mst.edu/>

The Dept. of Geosciences and Geological and Petroleum Engineering (GGPE) at Missouri S&T is seeking outstanding applicants for a tenure track, open rank faculty position in Geological Engineering specializing in "Big Earth Data". We seek a candidate with expertise in Big Earth Data, including possible areas such as Geo-computing (machine learning, artificial intelligence, programming, etc.), Geoanalytics, Geostatistics, and Earth modeling. Preference will be given to applicants who specialize in the collection, synthesis, and analysis of large datasets applied to topics such as geohazards, renewable energy, geoenvironmental and water resources, geomechanics, and space/planetary systems. Successful candidates will be expected to have strong commitments to (a) contributing to the departmental and college research efforts, (b) high-quality teaching both at the undergraduate and graduate levels on topics such as computer applications in earth science and engineering and statistics for geologists and engineers, (c) service in the applicant's professional community and our institution, and (d) increasing the diversity of both the student body and faculty. Applicants must hold a Ph.D. in geological engineering or a closely related field by the appointment start date. Eligibility for professional engineering registration is considered an asset.

Missouri S&T is one of the nation's leading research universities. Located about 100 miles west of St. Louis, Missouri S&T is an accessible, safe and friendly campus surrounded by Ozarks scenery. The campus is located in Rolla, Missouri, which is also home to the USGS Center of Excellence for Geospatial Information Science and the National Geospatial Technical Operations Center, which provide many opportunities for collaboration with USGS scientists. The GGPE Department has 21 tenured/tenure-track faculty and approximately 600 students (roughly evenly split between graduate and undergraduates). All of our programs offer B.S., M.S. and Ph.D. degrees. The ABET-accredited Geological Engineering program has approximately 80 undergraduate students, 50 on-campus graduate students and 65 off-campus graduate students. More information about the department and further details

on required and desired attributes, skills and characteristics of the successful candidate can be found at <http://ggpe.mst.edu/>.

Interested candidates should electronically submit their application consisting of: 1) a cover letter, 2) a current curriculum vitae, 3) a research statement, 4) a teaching statement, 5) a diversity statement, and 6) complete contact information for at least four references to Missouri S&T's Human Resources Office at: <http://hr.mst.edu/careers/academic/> using Reference Number 00072548. Acceptable electronic formats are PDF and MS Word. Applications will be reviewed as they are received and the review of applications will continue until the position is filled. For full consideration, applicants must apply by November 25, 2018. For more information prior to submitting an application, please contact the Search Committee Chair, Dr. Katherine Grote at [grotekr@mst.edu](mailto:grotekr@mst.edu).

Missouri S&T is an AA/EEO employer and does not discriminate on the basis of race, color, national origin, ancestry, religion, sex, pregnancy, sexual orientation, gender identity, gender expression, age, disability, protected veteran status, or any other status protected by applicable state or federal law. Females, minorities, and persons with disabilities are encouraged to apply. The university participates in E-Verify. For more information on E-Verify, please contact DHS at 1-888-464-4218.

### ASSISTANT OR ASSOCIATE RESEARCH HYDROGEOLOGISTS, MONTANA BUREAU OF MINES AND GEOLOGY

The Montana Bureau of Mines and Geology (MBMG) seeks one or more Assistant or Associate Research Hydrogeologists to conduct groundwater research as part of the MBMG Ground Water Investigations Program (GWIP), based in Butte, Montana. The successful applicant will develop groundwater models to address land-use change, stream depletion, and aquifer recharge in MT. For more information about the MBMG, visit its website at [www.mbm.mtech.edu](http://www.mbm.mtech.edu). For more information regarding the position and application procedures, visit <http://montanatechuniversity.applytojob.com/apply>.

### ASSISTANT PROFESSOR OF GEOLOGY CALIFORNIA STATE UNIVERSITY, BAKERSFIELD

The Dept. of Geological Sciences at California State University, Bakersfield (CSUB) invites applications for a tenure-track Assistant Professor position to start in Fall 2019. We seek a broadly trained geologist with applied research and teaching interests that includes (but are not limited to) hydrogeology, subsurface fluid dynamics, groundwater contamination, and groundwater sustainability. Use of GIS techniques is desirable. Teaching responsibilities will include introductory-level courses, hydrogeology, and upper-level undergraduate and graduate courses in the faculty member's specialty. Review of applications will begin December 1, 2018, and continue until the position is filled. CSUB fosters and appreciates ethnic and cultural diversity among its faculty and students, and is committed to increasing the diversity of its faculty to reflect the diversity of the campus community. Applications from women, ethnic minorities, veterans, and

individuals with disabilities are welcome. The full announcement and instructions on how to apply can be found at: <http://www.csub.edu/Geology/> Email: [geologysearch@csb.edu](mailto:geologysearch@csb.edu)

**TENURE-TRACK ASSISTANT  
PROFESSOR, GEOLOGY,  
CORNELL COLLEGE**

The Cornell College Dept. of Geology seeks a “soft rock” geologist to serve as the third pillar of its geology faculty and to actively engage with the college’s environmental studies, archaeology, and biology programs. The position will begin August 2019. Teaching responsibilities include paleontology and sedimentology/stratigraphy, introductory and advanced level courses in subjects of the candidate’s primary interest, a research course, and a course in Geographic Information Systems. The candidate may also offer a field course. The successful candidate will be a vibrant and dedicated teacher who enjoys working closely with undergraduates and who views student-faculty research as a critical component of an effective geology curriculum. The Department maintains a series of endowed funds that provide substantial funding to support this student-faculty research as well as course-related travel. Cornell College geology faculty emphasize laboratory activities, class discussions, field experiences, writing, quantitative literacy, and critical thinking in all of their courses. For more information on the position and how to apply, please visit <https://cornellcollege.applicantpro.com/jobs/889787.html>.

**TENURE-TRACK GROUNDWATER  
HYDROGEOLOGY, SAM HOUSTON  
STATE UNIVERSITY**

The Dept. of Geography and Geology at Sam Houston State University invites applications for a full-time, nine-month, tenure-track faculty position in groundwater hydrogeology beginning August of 2019. A Ph.D. degree in Geology or related Earth Sciences is required. The appointment will be at the Assistant Professor level. More experienced candidates may be considered at the Associate Professor level. The position will teach a standard 3-3 load consisting of two sections of an introductory, general education course and an upper-division specialty or elective course per semester.

The ideal candidates will have the interest and ability to teach Hydrogeology, Environmental Geology, and serve in a leadership role in the nascent, interdisciplinary Environmental Sciences degree. The successful candidate would ideally serve as the primary advisor/coordinator for the Environmental Sciences degree and must have a commitment to a high quality undergraduate teaching program that values both field and laboratory instruction, involve undergraduate students in research, and the ability to work with a diverse student body.

Review of complete applications will begin December 1, 2018, and will continue until the position is filled. Preference will be given to applicants who have submitted all required materials listed below by that date.

Application Process: Interested applicants should submit a letter of interest, current vita, contact information for three professional references, and statements of teaching philosophy and research

interests online at <http://shsu.peopleadmin.com/postings/20523>.

Questions regarding the position may be directed to: Dr. Joseph Hill, Search Chair (email: [geojoe@shsu.edu](mailto:geojoe@shsu.edu); 936-294-1560), Dept. of Geography and Geology, Box 2148, Sam Houston State University, Huntsville, TX 77341-2148.

Applicants selected for the on-campus interview process will be asked to supply transcripts showing appropriate conferred degrees. Official transcripts will be required for appointment.

About SHSU: Sam Houston State University was founded in 1879 and named after Texas’ greatest hero, General Sam Houston. With a total enrollment of approximately 21,000 students, SHSU is classified as a Doctoral Research Institution by the Carnegie Commission on Higher Education and offers 79 undergraduate degree programs, 54 masters programs, and five doctoral programs. The department has approximately 70 geology majors and offers degrees in geology and geoscience. More information is available on the department’s website at [www.shsu.edu/~gel\\_geo](http://www.shsu.edu/~gel_geo).

Sam Houston State University is an Equal Opportunity/Affirmative Action Plan Employer and Smoke/Drug-Free Workplace. All qualified applicants will receive consideration for employment without regard to race, creed, ancestry, marital status, citizenship, color, religion, sex, national origin, age, veteran status, disability status, sexual orientation, or gender identity. Sam Houston State University is an “at will” employer. Security sensitive positions at SHSU require background checks in accordance with Education Code 51.215.

**SEDIMENTARY GEOLOGY,  
UNIVERSITY OF MEMPHIS**

The Dept. of Earth Sciences at the University of Memphis is searching to fill a visiting faculty position in sedimentary geology with emphasis in stratigraphy and paleontology. The position is a 1-semester limited-term appointment to begin on January 14, 2019, with possible renewal for the 2019–2020 academic year. The Dept. of Earth Sciences is an interdisciplinary program in archaeology, geography, and geology that offers B.A., M.A., M.S. and Ph.D. degrees in Earth Sciences.

Applicants must have a Ph.D. from an accredited institution in Earth Sciences, Geology or closely related field at the time of appointment. Applicants must have a demonstrated ability to teach undergraduate and graduate courses in sedimentary geology, publish scholarly research, and foster research opportunities for students. Position responsibilities also include contributing to departmental service needs and conducting outreach activities.

Applicants are expected to effectively teach multiple subjects in sedimentary geology and have excellent written and verbal communication skills.

Applicants must submit their application through <https://workforum.memphis.edu/>. Click on the full-time faculty menu to find the visiting faculty position in Earth Sciences posting. Applications must include a letter detailing personal qualifications and experience related to the position, a comprehensive curriculum vita, copies or links to at least two peer-reviewed publications, and the full names and contact information (the

address, phone number, and email address) of three professional referees. Screening of applications will begin November 10, 2018, and may continue until the position is filled. For additional information visit [www.memphis.edu/positions](http://www.memphis.edu/positions). Please contact Dr. Dan Larsen ([dlarsen@memphis.edu](mailto:dlarsen@memphis.edu)) if you have any questions.

**We will contact qualified applicants to arrange to meet at the GSA Annual Meeting in Indianapolis.**

The University of Memphis is an affirmative action, equal opportunity employer.

**TENURE-TRACK ASSISTANT  
PROFESSORS, CLIMATE SCIENCE,  
SURFACE PROCESSES/  
GEOMORPHOLOGY, UNIVERSITY  
OF ROCHESTER**

The Dept. of Earth and Environmental Sciences at the University of Rochester will be hiring two tenure-track Assistant Professors in the general fields of Climate Science and Surface Processes/Glomorphology. While the department welcomes all applicants whose research lies in these general fields, we are particularly interested in candidates who bridge Solid Earth and Climate Science disciplines. In Surface Processes/Glomorphology, we encourage interdisciplinary applicants who focus on the critical zone between solid Earth systems and the Earth’s fluid envelopes. In Climate Science, we encourage applicants whose research focusses on the Carbon Cycle with emphasis on stabilizing atmospheric greenhouse gas concentrations, terrestrial carbon-climate feedbacks, linkages between carbon and other biogeochemical cycles, and connections between physical climate processes and carbon dynamics. The start dates of the positions are July 1, 2020 and 2021. We are interested in dynamic researchers and educators who can establish an externally funded, internationally recognized research program. See <http://www.ees.rochester.edu> for more information about the EES Department. The University of Rochester is a highly ranked research university, and the Rochester area’s cultural, educational, and recreational assets frequently place it among the best places to live, work, and raise a family in the United States. Applicants should submit materials via: <https://www.rochester.edu/faculty-recruiting>. Materials include a curriculum vitae, select reprints, statements of research and teaching goals, and the names and contact information of four references. The review of applications will begin December 20, 2018, and will continue until the positions are filled. The University of Rochester has a strong commitment to principles of diversity and, in that spirit, actively encourages applications from groups underrepresented in higher education. EOE/ Minorities/ Females/ Protected Veterans/ Disabled.

**ASSISTANT OR ASSOCIATE PROFESSOR  
IN GEOSCIENCE, HYDROGEOLOGY,  
UNIVERSITY OF WISCONSIN, MADISON**

The Dept. of Geoscience invites applications for a tenure-track Assistant Professor in the area of hydrogeology. In the case of advanced achievement, hiring at the rank of Associate Professor will be considered. Research areas of interest include (but are not limited to): reactive transport and subsurface biogeochemical processes; use of novel observational tools for addressing groundwater issues (e.g., remote



sensing, isotopic tracers, hydrogeophysics); interactions between groundwater and other components of the hydrologic cycle (surface water, oceans, glaciers, biota); interactions between groundwater and energy systems (e.g., methane, geothermal); and interactions between groundwater and climate change. We are especially interested in candidates whose research implements some combination of field, laboratory and modeling approaches.

The successful applicant will be expected to contribute to the research and teaching mission of the Department through the development of a vibrant, internationally recognized and externally funded research program, and through teaching courses at the undergraduate and graduate levels. We are particularly interested in candidates who can contribute to an inclusive environment, bring new perspectives on mentoring and educating students from diverse backgrounds, and propel novel approaches to research. Teaching responsibilities may include introductory geoscience courses for undergraduates as well as upper level undergraduate and graduate level courses related to the candidate's specialty. We aim to add new faculty who value collegiality and collaboration in both research and teaching.

Applicants must have a Ph.D. in Geoscience or a related field at the time of appointment, and must demonstrate potential for excellence in both research and teaching. Applicants should submit a cover letter, curriculum vitae, the names and contact information of three references, and a document containing a set of three statements discussing 1) research, 2) teaching, and 3) contributions to diversity and inclusion, respectively. These materials must be submitted as one document online at: <http://jobs.wisc.edu> (search for PVL 96018). The appointment may begin as early as August 19, 2019. Review of applications will begin on November 30, 2018, and continue until the position is filled. For further information or questions, please contact Professor Michael Cardiff, Chair of the Search Committee at: [cardiff@wisc.edu](mailto:cardiff@wisc.edu). The University of Wisconsin-Madison is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

**Representatives from UW-Madison will be available to talk with potential applicants in November at the 2018 GSA Annual Meeting in Indianapolis.**

For additional information, please see <http://jobs.hr.wisc.edu/cw/en-us/job/499241/>.

#### **ONE-YEAR FACULTY FELLOW SEDIMENTARY SYSTEMS, COLBY COLLEGE**

The Colby College Dept. of Geology invites applications for a one-year faculty fellow specializing in sedimentology and stratigraphy or a related field to begin September 1, 2019. The successful candidate will teach a sophomore-level undergraduate course in sedimentary processes and stratigraphy, as well as introductory geology laboratories and possibly an introductory non-majors course. Ideal candidates will be able to offer field trips to examine sedimentary

rocks and/or sedimentary environments in the northeast USA or adjacent Canada. The successful candidate also will have access to instrumentation and facilities in the Dept. of Geology for research and teaching. These include a powder-XRD, micro-XRF, SEM-EDS, CHNSO Elemental Analyzer, petrographic microscopes, sediment-sieving equipment, rock cutting and powdering equipment, and thin-section-making equipment. The search committee is especially interested in candidates with a demonstrated ability to teach and advise a diverse student population. A Ph.D. at the time of appointment is preferred, but ABD candidates will be considered.

Complete applications will include a brief cover letter, curriculum vitae, statement of teaching philosophy, and three letters of recommendation. Please submit all materials via Interfolio at: [apply.interfolio.com/55080](http://apply.interfolio.com/55080). Applications received by January 7, 2019, will receive full consideration, but applications will be reviewed until the position is filled. Inquiries may also be directed to [sedstrat19@colby.edu](mailto:sedstrat19@colby.edu).

Colby is a private, coeducational liberal arts college that admits students and makes employment decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. Colby College does not discriminate on the basis of race, color, gender, sexual orientation, gender identity or expression, disability, religion, ancestry or national origin, age, marital status, genetic information, or veteran's status in employment or in our educational programs. Colby is an Equal Opportunity employer, committed to excellence through diversity, and encourages applications from qualified persons of color, women, persons with disabilities, military veterans and members of other under-represented groups. Colby complies with Title IX, which prohibits discrimination on the basis of sex in an institution's education programs and activities. Questions regarding Title IX may be referred to Colby's Title IX coordinator or to the federal Office of Civil Rights. For more information about the College, please visit our website: [www.colby.edu](http://www.colby.edu).

#### **FACULTY POSITION ORGANIC BIOGEOCHEMISTRY, AUBURN UNIVERSITY**

As part of a larger investment to create a new Science of Living System Initiative, the Dept. of Geosciences at Auburn University invites applications for a new tenure-track Assistant Professor position in Organic Biogeochemistry, beginning in the Fall Semester 2019. Applicants are expected to hold a Ph.D. in geosciences or a related field at the time employment begins. Specialties may include, but are not limited to 1) investigating biogeochemical processes occurring at or near the Earth's surface across the broad spectrum of interfaces ranging in scale from global to molecular; 2) the role of life in the transformation and evolution of Earth's biogeochemical cycles; 3) surficial biogeochemical systems and cycles, including their modification through climate change and human activities; 4) mineralogy and biogeochemistry of earth materials; 5) geomicrobiology and biomineralization processes and their applications in environmental remediation; and 6) environmental health related to air, soil, and water pollution. We seek a dynamic individual who will play a leadership role in propelling

our new interdisciplinary Earth System Science PhD Program. Collaborative research programs that are regional or global in scope are currently active with faculty in the College of Sciences and Mathematics, School of Forestry and Wildlife Science, College of Engineering, and College of Agriculture. New faculty with expertise in Organic Biogeochemistry will complement the University's considerable existing expertise in the areas of hydrogeology, climate change/paleoclimate sciences, environmental geochemistry, and sedimentary geology. The successful candidate is expected to develop a vigorous, externally funded research program, publish scholarly work, and advise graduate and undergraduate students. The successful candidate will have duties that include teaching graduate and undergraduate courses based on his/her expertise. The candidate selected for this position must meet eligibility requirements to work in the United States on the date the appointment is scheduled to begin (August 2019) and must be able to continue working legally for the proposed term of employment. The candidate must possess excellent written and interpersonal communication skills.

Applications must include curriculum vitae, letter of application describing professional experience, research and teaching interests, copies of official transcripts, and the names and contact information of three professional references. To apply please go to <http://aufacultypositions.peopleadmin.com/postings/3076>, complete the online form and upload the required application documents.

Applicants are encouraged to visit the AU website to learn more about Auburn University and Geosciences program <http://www.auburn.edu/academic/cosam/>. Review of applications will begin December 7th, 2018 and will continue until a candidate accepts appointment.

Auburn University is an EEO/Vet/Disability employer.

#### **ASSISTANT PROFESSOR OF GEOLOGY, UTAH VALLEY UNIVERSITY**

The Department of Earth Science at Utah Valley University invites applications for a tenure-track assistant professor position in geology, to begin August 2019. In our broad search of talented candidates, we seek a committed educator with expertise in geoscience education, a proven record of effective pedagogy, and a passion for teaching lower-division Earth science courses. Expertise in applied geophysics and/or engineering geology is a plus but is not required. The successful candidate must have a Ph.D. in geology or a closely related field at the time of appointment. Responsibilities will include: 1) designing and teaching introductory-level Earth science courses using various delivery methods (i.e., face-to-face, flipped, hybrid, and online courses); 2) assisting other faculty in designing courses and in developing learning activities that follow sound pedagogical principles; 3) supervising undergraduate research (in science education and/or a geological discipline); and 4) service to the institution. Other possible responsibilities may include participation in our multi-instructor summer field geology capstone course, development of new upper division course(s) in the successful applicant's area of expertise, and coordination of curricula design among full-time faculty and adjunct instructors. A

strong commitment to an evidence-based approach to teaching and to undergraduate research are necessary.

For more information, please see <https://www.uvu.edu/earthscience/> or contact the search committee co-chairs Alessandro Zanazzi ([alessandro.zanazzi@uvu.edu](mailto:alessandro.zanazzi@uvu.edu)) and Michael Stearns ([mstearns@uvu.edu](mailto:mstearns@uvu.edu)). **For those attending, we will meet with potential candidates at the 2018 GSA Annual Meeting in Indianapolis and at the 2018 AGU Fall Meeting in Washington DC.**

To apply, please visit <http://www.uvu.jobs/postings/9182>. Applications deadline: 1/7/19.

Utah Valley University is an Equal Opportunity Employer/Veterans/Disabled/Equal Access Employer. Utah Valley University is committed to an inclusive hiring process and the welcoming of diverse candidates.

**TENURE-TRACK ASSISTANT  
PROFESSOR IN ENVIRONMENTAL  
BIOGEOCHEMISTRY, THE  
UNIVERSITY OF TEXAS ARLINGTON**

The Dept. of Earth and Environmental Sciences at The University of Texas Arlington invites applications for a tenure-track faculty position in broadly construed areas related to environmental biogeochemistry at the level of Assistant Professor. Faculty candidates for higher ranks with exceptional track records will also be considered. We seek a broadly-trained biogeochemist who complements the interdisciplinary nature of our geology and environmental science programs. While candidates from all sub-disciplines of earth and environmental sciences are encouraged to apply, we are particularly interested in candidates with expertise in analytical biogeochemistry, biogeochemical data mining, climate and biogeochemical dynamical or statistical modeling, or the exposome. Opportunities for collaboration exist with departmental research groups (<https://www.uta.edu/ees/>) and other research groups of data science, analytical chemistry, ecology, and genomics in the College of Science. Our geochemistry analytical strengths include the on-campus Shimadzu Institute for Research Technologies (<http://www.uta.edu/sirt/>).

Applicants should have a doctoral degree in earth and environmental sciences or a related field. Successful candidates are expected to demonstrate a commitment to diversity and equity in education through their scholarship, teaching, and/or service. We are deeply committed to increasing diversity and especially encourage applications from women and minority scholars.

Review of applications will begin immediately and continue until the position is filled. For full consideration, applications should be submitted by November 16th, 2018. Applicants must apply online at <https://uta.peopleadmin.com/postings/7068>. A complete application includes: 1) curriculum vitae, 2) summary of current and proposed research (max. two pages), 3) statement of teaching interests (max. one page), and 4) names and email addresses of three references.

Question regarding this position may be directed via email to Dr. Max Hu, Search Committee Chair ([maxhu@uta.edu](mailto:maxhu@uta.edu)) or Dr. Arne Winguth, Department Chair ([awinguth@uta.edu](mailto:awinguth@uta.edu)).

As an equal employment opportunity and affirmative action employer, it is the policy of The Uni-

versity of Texas Arlington to promote and ensure equal employment opportunity for all individuals without regard to race, color, religion, sex, national origin, age, sexual orientation, gender identity, disability, or veteran status.

**PALEONTOLOGY AND  
HISTORICAL GEOLOGY, FULL-TIME  
LECTURER (NON-TENURE-TRACK),  
TUFTS UNIVERSITY**

Tufts University invites applications for a full-time lecturer in the Dept. of Earth and Ocean Sciences to begin September 1st 2019. This position is for a 1-year initial contract with possibility of continued renewal of multiyear contracts, and it is included in the union for full-time lecturers (Service Employees International Union). The lecturer will teach courses in Paleontology, Historical Geology, their specialty (with a preference for Geographic Information Systems), and labs for other introductory courses that include afternoon field trips. Earth and Ocean Sciences is an undergraduate-only program offering degrees in Environmental Geology and Geological Sciences. Full details and application materials via Interfolio at <https://apply.interfolio.com/53715>.

**BATEMAN POSTDOCTORAL  
FELLOWSHIP, DEPT. OF GEOLOGY &  
GEOPHYSICS, YALE UNIVERSITY**

The Dept. of Geology and Geophysics at Yale University (<http://earth.yale.edu>) announces an annual competition for a Bateman Postdoctoral Fellowship. We welcome applicants with research interests across the full range of disciplines within earth and planetary sciences, including studies of geophysics, planetary sciences, tectonics, oceans, atmosphere, climate dynamics, geochemistry, paleoclimatology, geobiology, and the evolution of life. The Postdoctoral Associate position is awarded for two years, providing a stipend (\$60,000/yr) and base research funds (\$5,000/yr), plus health care benefits and limited expenses for relocation. Applicants should contact a sponsor in the Department to discuss potential research projects, and then submit a short (2-3 page) statement of research interests and proposed research, a curriculum vitae with a full list of publications, an endorsement letter from the sponsoring faculty member, and three confidential letters of reference. Applications should be submitted online at <http://apply.interfolio.com/54659>. The deadline for receipt of all application materials is December 15, 2018, and successful candidates are expected to begin their program at Yale between July 1 and December 31, 2019. Yale University is an Affirmative Action/Equal Opportunity employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans, and underrepresented minorities.

**TWO-YEAR TEACHING  
POST-DOCTORAL POSITION,  
MINERALOGY/PETROLOGY,  
DEPAUW UNIVERSITY**

DePauw University invites applications for a two-year teaching post-doctoral position in the Dept. of Geosciences beginning August 2019. We are seeking a broadly-trained geoscientist with specialties in Mineralogy and/or Petrology to complement our existing strengths in sedimentology/stratigraphy, structural

geology/tectonics, and environmental geoscience. Candidates should demonstrate the potential to be an outstanding teacher in the liberal arts context, an active scholar in their field, and a contributor to a vibrant, student-centered curriculum in the Department and the University. Evidence of effective and inclusive pedagogy is essential.

Ideal candidates will have the desire and the ability to teach courses at all levels of the curriculum, including first-year seminars, and to provide a balance of classroom, laboratory, field and research experiences for our students. Candidates should have broad interests beyond their specialty. We are especially seeking a person who can develop and teach environmentally-themed courses for both majors and non-majors. The teaching assignment for this position is two lab courses and one non-lab course per year. Candidates are encouraged to maintain a productive research program that involves undergraduate students.

The successful candidate will have access to the full range of available faculty development opportunities including teaching, writing, speaking and critical thinking workshops, funding for research and travel to professional conferences, mentoring by current faculty members, and summer stipends for course development or research with students. Department funds are available to support course-related field trips during the academic year and field-based courses during our January and May terms.

Candidates should submit the following material through Interfolio (<http://apply.interfolio.com/54222>): a cover letter, curriculum vitae, one-page teaching philosophy, one-page summary of research interests, graduate transcripts, and three letters of recommendation. In their application materials, candidates should demonstrate a commitment to fostering an engagement with a diversity of ideas and experiences both in the classroom and at the University. Review of applications will begin on October 22, 2018 and will continue until the position is filled. We will meet with selected candidates, if attending, at the 2018 GSA Annual Meeting in Indianapolis, November 5-7, 2018. Questions may be directed to the search committee chair, Dr. Frederick M. Soster, at [fsoster@depauw.edu](mailto:fsoster@depauw.edu).

DePauw University is an equal opportunity/affirmative action employer; women, members of underrepresented groups, and persons with disabilities are encouraged to apply.

**ASSISTANT PROFESSOR,  
SOLID EARTH GEOPHYSICS,  
OREGON STATE UNIVERSITY**

The College of Earth, Ocean, and Atmospheric Sciences (CEOAS) at Oregon State University in Corvallis, Oregon invites applications for an early career geophysicist with a research focus in at least one of the following areas: near-surface/environmental geophysics, crust and mantle processes, tectonics, volcanology, marine geophysics, hydrogeophysics, natural hazard characterization and mitigation, and natural resource exploration. The successful candidate will be a field-oriented colleague who has a deep understanding of the underlying geological and physical principles. This is a full-time (nine-month) tenure track assistant professor anticipated to begin September 2019. Duties

include teaching lower- and upper-division courses in the undergraduate Earth Sciences program, graduate courses in their specialty, and to mentor undergraduate and graduate students. The successful candidate is also expected to develop a vibrant, externally funded research program and to provide service to the College and University. Requirements include a PhD by the start of employment in Geophysics, Geology, or a closely related discipline and the ability to contribute to teaching excellence. Preference will be given to candidates with a demonstrable commitment to promoting and enhancing diversity. To review the complete announcement and to submit application documents see <https://jobs.oregonstate.edu/posting/#P02429UF>. For full consideration apply by December 1, 2018.

#### **ASSISTANT PROFESSOR OF GEOSCIENCES, SMITH COLLEGE**

The Dept. of Geosciences at Smith College invites applications for a tenure-track position at the rank of Assistant Professor, to begin July 1, 2019. Candidates should have a strong foundation in “hard rock” geology, and we are especially interested in applicants with expertise in and/or who can teach courses in mineral resources and sustainability. Teaching responsibilities for this position will regularly include mineralogy and petrology, and other courses in the candidate’s field of specialization. The successful candidate is also expected to establish an active research program and to engage undergraduate students in their scholarship. A Ph.D. in Geosciences is expected by the time of appointment. Candidates from groups underrepresented in STEM are strongly encouraged to apply. Details about the Dept. of Geosciences may be found at <https://www.smith.edu/academics/geosciences>. For more information and to apply, visit <https://apply.interfolio.com/53297>. Review of applications will begin on November 1. We will accept applications until December 10, 2018. EO/AA/Vet/Disability Employer.

#### **TENURE-TRACK ASSISTANT PROFESSOR POSITION,**

#### **WESTERN WASHINGTON UNIVERSITY**

The Dept. of Physics/Astronomy and the Geology Dept. at Western Washington University invite applications for a tenure-track assistant professor of planetary science position, split evenly between both departments with Physics/Astronomy as the administrative home department, starting September 2019. Applicants must hold a Ph.D. in geophysics, physics, geology, astronomy or closely related field by time of appointment.

A successful applicant will be expected to pursue an externally-supported research program in planetary science that will actively involve undergraduate students. Post-doctoral research or equivalent experience is strongly preferred. Candidates should also have the potential for teaching excellence at all levels of the undergraduate curriculum in the physics and geophysics program. Experience in teaching undergraduate STEM courses and interest in the use of student-centered teaching techniques is preferred. Candidates must demonstrate ability and commitment to promoting diversity and inclusion, as well as excellent communication and interpersonal skills. Preference will be given to candidates whose research specialization complements existing

strengths in remote sensing, planetary geology, seismology, magnetism, and tectonics, and who have the potential to mentor graduate student research in the Geology M.S. program.

Applications must include (1) a detailed cover letter describing the applicant’s background and addressing the required and preferred qualifications, (2) a statement of philosophy and interest in teaching, (3) a statement outlining proposed research plans, specifically addressing plans for student involvement in both departments, (4) a statement detailing how teaching, service and/or scholarship has prepared the applicant to support the success of students with backgrounds or identities that are underrepresented in STEM fields, (5) unofficial transcripts of undergraduate and graduate course work, and (6) a full curriculum vitae including the names, addresses, e-mail addresses, and telephone numbers of three professional references. Do not send letters of recommendation; they will be requested only for semi-finalists. Review of applications will begin on November 30, 2018, and the position will remain open until filled. All application materials must be uploaded as a single pdf to: Assistant Professor of Planetary Science [<http://employment.wvu.edu/cw/en-us/job/496058/assistant-professor-of-planetary-science>]. Inquiries may be addressed to the search committee chair, Dr. Melissa Rice, at [melissa.rice@wvu.edu](mailto:melissa.rice@wvu.edu) or (360) 650-3592.

Western Washington University is a public university with over 15,000 students in Bellingham, WA, centrally located between Seattle, WA and Vancouver, B.C. in the beautiful Pacific Northwest. The Dept. of Physics and Astronomy offers a B.S. degree in physics and a B.A. degree in math/physics education. The Geology department offers B.S. degrees in geophysics and geology, and a M.S. degree in geology. More information can be found at <https://cse.wvu.edu/physics> and <https://cse.wvu.edu/geology>.

WVU is an AA/EO employer.

#### **ASSISTANT PROFESSOR OF EARTH AND ATMOSPHERIC SCIENCES (HYDROGEOLOGY/ GROUNDWATER MODELING),**

#### **UNIVERSITY OF NEBRASKA-LINCOLN**

Applications are invited for a tenure track position as Assistant Professor in the Dept. of Earth and Atmospheric Sciences at the University of Nebraska-Lincoln. The position forms part of a cluster hire (Climate Change: Impacts, Adaptation, and Mitigation) that involves multiple departments in the College of Arts and Sciences. The successful candidate will be expected to participate in teaching and curricular development of undergraduate and graduate courses, to advise and direct graduate students, and to develop a rigorous research program that is supported by external funding. It is expected that the research program will focus on relationships between the hydrosphere and climate. The ability to contribute to multidisciplinary water and climate research efforts in the department and college will be considered as an advantage. The candidate should demonstrate strong potential for research and teaching and must hold a Ph.D. in Geology, Hydrogeology, or a related field at the time of appointment.

The Dept. of Earth and Atmospheric Sciences offers B.S. degrees in Geology and Meteorology-

Climatology, as well as M.S. and Ph.D. degrees in Earth and Atmospheric Sciences. Additional information about our department can be found on our web site: <http://eas.unl.edu>.

To apply, go to <http://employment.unl.edu/postings/60181> and complete the “faculty/administrative form”. Applicants must attach a cover letter, curriculum vitae, statements of research and teaching interests, and names of at least three references via the above website. We will begin to review applications on November 23, but the position will remain open until it is filled.

As an EO/AA employer, qualified applicants are considered for employment without regard to race, color, ethnicity, national origin, sex, pregnancy, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, marital status, and/or political affiliation. See <http://www.unl.edu/equity/notice-nondiscrimination>.

For further information, contact Dr. Richard Kettler, Search Committee Chair by email, phone, or mail at: [rketler1@unl.edu](mailto:rketler1@unl.edu), 1-402-472-0882; Dept. of Earth & Atmospheric Sciences, University of Nebraska-Lincoln, 126 Bessey Hall, Lincoln NE 68588-0340.

#### **ASSISTANT PROFESSOR, HYDROGEOLOGIST, WEST VIRGINIA UNIVERSITY**

The West Virginia University Dept. of Geology & Geography invites applications for a tenure-track position in geology at the Assistant Professor (Job No. 09825) level starting in August 2019. A Ph.D. or equivalent degree in Geoscience or a broadly related field is required at the time of appointment. We seek applications from individuals with interests in basic and applied aspects of water science. The successful applicant will possess demonstrable expertise applicable to competitively funded research problems. Relevant specialties might include physical hydrogeology; fluid flow modeling; hyporheic or vadose zone processes; groundwater-surface water interaction; flow in fractured media; hydrogeology of energy-related activities; groundwater supply and sustainability; contaminant transport; watershed dynamics; ecohydrology; or karst hydrogeology.

Candidates will be evaluated based on their potential to establish a vigorous externally funded research program, publish scholarly work, mentor graduate students, and to teach at the undergraduate and graduate levels, including a junior-senior level physical hydrogeology course.

Research on fresh water resources is a strategic focus at WVU, as demonstrated by a newly established interdisciplinary Institute of Water Security and Science (<https://iwss.wvu.edu/>), a National Science Foundation funded multi-state Appalachian Freshwater Initiative (<https://iwss.wvu.edu/projects/appalachian-freshwater-initiative>), and many other water focus areas located in WVU colleges and centers.

WVU (<http://www.wvu.edu>) is a comprehensive land-grant university that enrolls 29,000 students. It is classified as “highest research activity” by the Carnegie Foundation. WVU is located in Morgantown (<https://www.morgantownwv.gov/>), ranked as a most preferred small city in America. The immediate region has a diverse population of about 200,000 residents. The community lies within a high technol-

ogy corridor that includes several federal research facilities, as well as resource-based industries. The city is readily accessible to Pittsburgh and Washington, DC.

To apply for this position, visit <https://careers.wvu.edu>, navigate to the position title listed above, and submit (1) a single PDF file including a statement of research interests, a statement of teaching philosophy, and a current curriculum vitae; (2) a list of names and e-mail addresses for at least three individuals who can provide prompt letters of recommendation; and (3) pdf files of up to four publications.

Review of applications will commence on December 3, 2018 and continue until the position is filled. For additional information, please see <http://pages.geo.wvu.edu/hydrogeo> or contact search chair Steve Kite at [steve.kite@mail.wvu.edu](mailto:steve.kite@mail.wvu.edu). WVU is an EEO/Affirmative Action Employer and welcomes applications from all qualified individuals, including minorities, females, individuals with disabilities, and veterans.

**ASSISTANT PROFESSOR  
(TENURE TRACK), MINERALOGY  
AND GEOCHEMISTRY,  
DARTMOUTH COLLEGE**

The Dept. of Earth Sciences at Dartmouth College invites applications for a tenure-track assistant professor of mineralogy and geochemistry. Particular attention will be given to candidates with research interests in applied mineralogy related to mineral-microbe or water-rock interactions. We are especially interested in candidates who focus on understanding fundamental processes through a state-of-the-art field and laboratory research program that provides synergy with existing research activities within the department and elsewhere at Dartmouth, including the Department's core research areas: earth and planetary evolution, surface processes, and ice and climate systems. The successful candidate will continue Dartmouth's strong traditions in graduate and undergraduate research and teaching. Teaching responsibilities consist of three courses spread over four ten-week terms. One or more of these courses will have a core focus on the fundamentals of mineralogy.

The Dept. of Earth Sciences is home to 11 tenured and tenure-track faculty members in the School of Arts and Sciences and enjoys strong Ph.D. and M.S. programs and outstanding undergraduate majors. To create an atmosphere supportive of research, Dartmouth College offers new faculty members grants for research-related expenses, a quarter of sabbatical leave for each three academic years in residence, and flexible scheduling of teaching responsibilities. Dartmouth College has undergraduate and graduate student populations that are diverse by many measures. We seek applicants with a record of successful teaching and mentoring of students from all backgrounds (including first-generation college students, low-income students, racial and ethnic minorities, women, LGBTQ, etc.). Dartmouth provides opportunities to participate in undergraduate diversity initiatives in STEM research, such as our Women in Science Program, E. E. Just STEM Scholars Program, and Academic Summer Undergraduate Research Experience (ASURE).

To learn more about Dartmouth College and the Dept. of Earth Sciences, visit <http://www.dartmouth.edu/~earthsci>

To submit an application, upload a cover letter, curriculum vitae, statements of teaching and research interests and objectives, reprints or preprints of up to three(3) of your most significant publications, and the name, address (including street address), e-mail address and fax/phone numbers of at least three(3) references to: <http://apply.interfolio.com/53423>

Application review will begin November 1, 2018 and continue until the position is filled. Applicants must hold a PhD or be ABD with degree anticipated by July 1, 2019.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. Applications by members of all underrepresented groups are encouraged.

### ***Opportunities for Students***

**Graduate Student Opportunities at Case Western Reserve University.** Students with backgrounds in geology, physics, chemistry, biology, engineering, and related fields are encouraged to apply for our Ph.D. and MS programs in Earth, Environmental, and Planetary Sciences. Areas of active research in the Department include planetary geology and geodynamics, planetary materials, high-pressure mineral physics and geochemistry, core and mantle processes, sedimentary geology, and sediment transport. For more information, please visit <http://eeps.case.edu> or write to [eeps-gradinfo@case.edu](mailto:eeps-gradinfo@case.edu). Financial assistance is available. Application deadline: 1/15/2019.

**Graduate Student Positions at Clemson University.** Clemson University Dept. of Environmental Engineer and Earth Sciences seeks enthusiastic students interested in pursuing a Ph.D. in the areas of tectonics, sediment transport and applied geochronology. The ideal candidates will possess a M.S. in geology. A strong foundation and prior research in the above-mentioned areas of interest along with statistical analysis would be beneficial. Possible research topics include, but are not limited to, provenance analysis of Cenozoic continent-scale fluvial systems and Pliocene–Pleistocene loess in North and South America. Outstanding applicants will be offered support in the form of a research and/or teaching assistantship. Students offered an assistantship are expected to start Fall 2019. Interested geoscientists should contact Dr. Alex Pullen ([apullen@clemson.edu](mailto:apullen@clemson.edu); <https://www.clemson.edu/cecas/departments/eees/people/facultydirectory/pullen.html>) this fall to discuss opportunities.

**Graduate Research Opportunities at Purdue.** The Dept. of Earth, Atmospheric, and Planetary Sciences (EAPS) at Purdue University is looking for enthusiastic and self-motivated graduate students for a variety of research projects in Geology and Geophysics, and Planetary, Environmental, and Atmospheric Sciences. As a multidisciplinary department

within the College of Science, EAPS draws students from a variety of STEM backgrounds. We offer 4 years of guaranteed financial support and a variety of fellowships. Students with demonstrated academic and research excellence are invited to explore funded opportunities at <http://www.eaps.purdue.edu/gradresearch>. Come see our booth at GSA and AGU.

## **Hiring?**

Don't miss the Employers' Special Section for GSA 2018 Indianapolis at the top of the page on the Geoscience Job Board ([geosociety.org/jobs](http://geosociety.org/jobs)).

Find those qualified geoscientists to fill vacancies. Use print issues of *GSA Today* and GSA's Geoscience Job Board ([geosociety.org/jobs](http://geosociety.org/jobs)). Bundle and save for best pricing options.

That unique candidate is waiting to be found.



## Support Field Camp Scholarships and Impact the Geosciences—GSAF’s Year-End Giving Campaign

**D**o you want to make a lasting impact upon a student’s life—and upon the geosciences? While the end of the year is a busy time for many of us, it affords a chance to give thanks for the opportunities we have received, consider the lasting impact we wish to make, and determine how best to facilitate that desire philanthropically. The Geological Society of America Foundation will kick off its annual year-end giving campaign on #GivingTuesday, 27 Nov., and we invite you to join us in sustaining and expanding field experiences for aspiring geoscientists.

Fieldwork is a crucial element to geoscience education—just ask Ángel García, visiting assistant instructor at James Madison University and a 2018 GSA/ExxonMobil Bighorn Basin Field Award recipient. Ángel recounts that he first discovered his passion for the geosciences “when my introductory geology professor brought us to a cave in the town of Morovis, Puerto Rico.” That initial experience sparked Ángel’s interest in karst geology, and after finishing his undergraduate degree, he decided to pursue graduate studies in this area.

Ángel’s most recent field experience was at the Bighorn Basin Field Seminar, which he found incredibly impactful: “I had the chance to learn from experts in the field of geology exploration some of the methods and field training required in this discipline. Besides that, the chance to network with folks from industry was amazing. Additionally, it gave me a different perspective on industry careers. I feel that I am more prepared to advise my future students if they want to pursue a career in geology exploration.” In reflecting upon his experiences, Ángel believes that all students should engage in some form of fieldwork, noting that it is “so important for all of us in the geosciences at any stage of our career.”

Finally, Ángel is particularly thankful to GSA. From attending his first annual meeting as a 2015 On To the Future participant, to moving into a leadership role in the geoscience community, GSA has provided important experiences and space for him to grow professionally, and most importantly, “has constantly supported me along the way. This kind of support is something that I have not found in other professional associations.”

There are two ways to support field experiences through the GSA Foundation. The **Field Camp Opportunities Fund** was created to facilitate GSA’s ongoing mission to support students seeking to hone their skills and discover their scientific passions by providing them with financial resources to pursue various field camp opportunities. The **Petroleum Geoscientists Fund for Undergraduate Field Experience and Research** is a grassroots initiative by a dedicated group of energy industry geoscientists to provide undergraduate students with an opportunity to learn the skills necessary to contribute meaningfully to corporate and industry efforts.

**Make your gift today!** You can give online at [gsafweb.org/donate](http://gsafweb.org/donate), or to discuss in-depth ways that you can support field camp scholarships, please contact Debbie Marcinkowski at +1-303-357-1047 or [dmarcinkowski@geosociety.org](mailto:dmarcinkowski@geosociety.org).



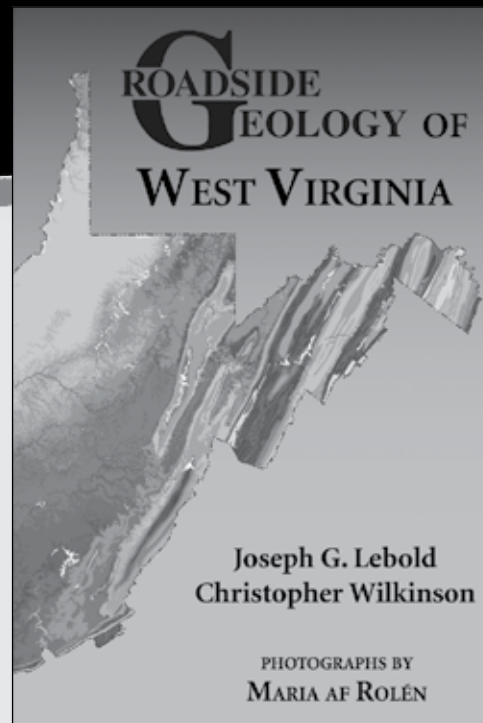
Ángel García at the Bighorn Basin Field Seminar.

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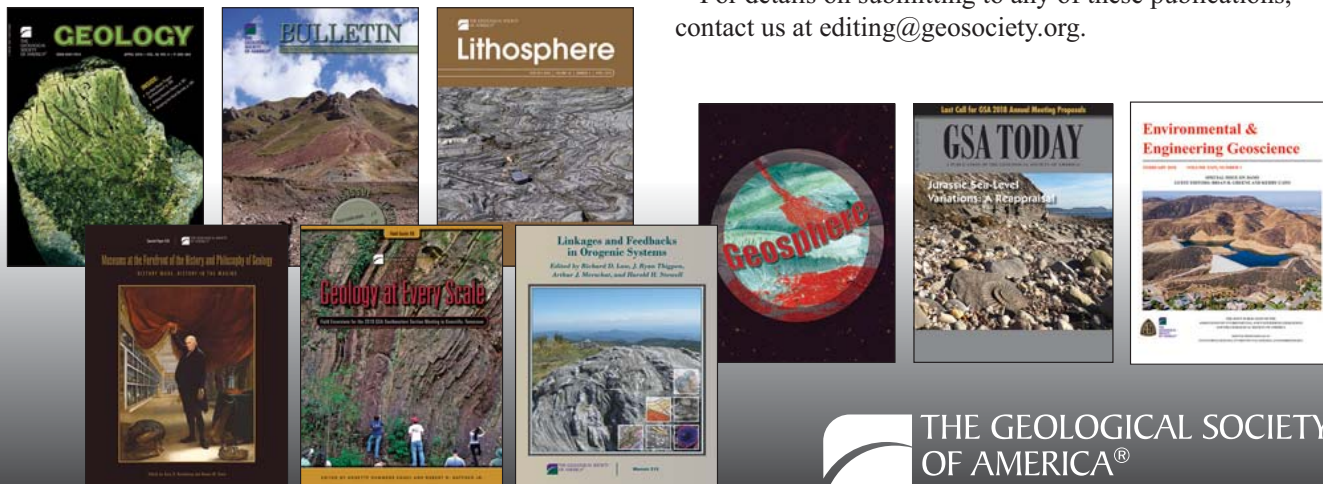
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