

Early Registration deadline: **19 August 2019 11:59 PM MDT** • Cancellation deadline: **26 August 2019 11:59 PM MDT**

## BADGE INFORMATION

First Name (or Nickname) \_\_\_\_\_

Last Name \_\_\_\_\_

School/Company \_\_\_\_\_

City \_\_\_\_\_ State or Prov. \_\_\_\_\_

Spouse or Guest First/Last Name (or Nickname) \_\_\_\_\_

City \_\_\_\_\_ State or Prov. \_\_\_\_\_

Will you be working in the Exhibit Hall?  Yes  No

## CONTACT INFORMATION (Register one attendee and guest per form)

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State or Prov. \_\_\_\_\_

ZIP or Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Is this a change of address?  Yes  No  Home  Work

E-mail \_\_\_\_\_

Daytime Phone \_\_\_\_\_

## ACCOMMODATIONS & SERVICES

### Programmatic Accommodations

The Geological Society of America is committed to providing universal access to all of our events. If you would like to talk with someone to request diverse ability accommodations (e.g., sign language interpreters, alternative formats), please check the box below. A GSA staff member will follow up with you. Advance notice is necessary to arrange for some accessibility needs.

Check here if you would like a GSA staff member to follow up with you

### Dietary Considerations

Most dietary considerations can be met without any extra charge. If you've registered for a Ticketed Event, Field Trip, or Short Course/Workshop that includes a meal, be sure to check the box below when registering. A GSA staff member will contact you to confirm your request.

Gluten Free  Vegetarian  Vegan  
 Food Allergies  Other \_\_\_\_\_

## EVENTS CODE OF CONDUCT, PRIVACY POLICY, AND FIELD TRIP WAIVER

By registering for this event/meeting, I agree to abide by the GSA Events Code of Conduct (<http://www.geosociety.org/GSA/Events/EventConductCode/GSA/Events/Conduct.aspx>) and acknowledge that I have read GSA's Privacy Policy ([http://www.geosociety.org/GSA/Privacy\\_Policy/GSA/privacy.aspx](http://www.geosociety.org/GSA/Privacy_Policy/GSA/privacy.aspx)).

By registering for a Field Trip, I agree to abide by the GSA Field Safety Code of Conduct and the Participant Waiver ([http://www.geosociety.org/documents/gsa/about/GSA\\_FieldSafety-Conduct.pdf](http://www.geosociety.org/documents/gsa/about/GSA_FieldSafety-Conduct.pdf)) and [http://www.geosociety.org/documents/gsa/about/GSA\\_FieldSafety-Waiver.pdf](http://www.geosociety.org/documents/gsa/about/GSA_FieldSafety-Waiver.pdf)).

I agree that by registering for the GSA Annual Meeting, I will receive emails from GSA containing my meeting confirmation, as well as news, updates, and promotions specifically for or about the meeting or other GSA programs. I understand that I may withdraw my consent at any time.

Photographs may be taken at GSA Meetings by our official photographer. By registering for this meeting, you agree to allow The Geological Society of America to use photographs that may include shots of you in any GSA related publications, marketing and promotional materials, or web site. At no time are photographs or recordings allowed to be taken of scientific presentations without the author's consent.

## REGISTRATION FEES (all fees are in U.S. dollars[US\$])

| GSA Member ID# _____   | MEMBER *   |          | NONMEMBER  |          |
|--|------------|----------|--|----------|
|  | EARLY      | STANDARD | EARLY  | STANDARD |
| Professional - Full Meeting  | (10) \$430 | \$510    | (14) \$625   | \$700    |
| Professional - 1 Day   | (11) \$265 | \$305    | (15) \$370   | \$445    |
| Professional >70 - Full Meeting  | (12) \$305 | \$390    | These categories are only available for members. Register as a professional nonmember or join GSA. |          |
| Professional >70- 1 Day  | (13) \$205 | \$230    |  |          |
| Early Career Professional - Full   | (21) \$270 | \$340    |  |          |
| Early Career Professional - 1 Day  | (22) \$165 | \$199    |  |          |
| Student - Full Meeting   | (30) \$145 | \$180    | (32) \$200   | \$235    |
| Student - 1 Day  | (31) \$100 | \$115    | (33) \$135   | \$155    |
| High School Student  | (36) \$50  | \$50     | (36) \$50  | \$50     |
| K-12 Professional - Full Meeting   | (60) \$65  | \$75     | (60) \$65  | \$75     |
| Field Trip or Short Course only  | (95) \$45  | \$45     | (95) \$45  | \$45     |
| Guest or Spouse †  | (90) \$100 | \$110    | (90) \$100   | \$110    |
| Low Income Country §   | 50%        |          | 50%  |          |
| I would like to contribute to the GSA Student Travel Fund  |            |          |  |          |
| [701] <input type="checkbox"/> \$10 [702] <input type="checkbox"/> \$25 [703] <input type="checkbox"/> \$50            |            |          |  |          |
| [704] <input type="checkbox"/> \$75 [705] <input type="checkbox"/> \$100 [706] <input type="checkbox"/> Other \$ _____ |            |          |  |          |
| May be tax deductible, consult tax advisor.  |            |          |  | US\$     |
| Carbon Offset Program  |            |          | Donation   |          |
| 801- Carbon offset (air/auto travel within the U.S.)   |            |          | \$4  |          |
| 802- Carbon offset (air travel from Canada or Central America)   |            |          | \$6  |          |
| 803- Carbon offset (air travel from South America)   |            |          | \$12   |          |
| 804- Carbon offset (air travel from U.K., Europe or Africa)  |            |          | \$20   |          |
| 805- Carbon offset (air travel from Australia or Asia)   |            |          | \$30   | US\$     |
| <b>REGISTRATION FEES SUBTOTAL</b>  |            |          | <b>US\$</b>  |          |
| <b>ACTIVITIES SUBTOTAL (page 2)</b>  |            |          | <b>US\$</b>  |          |
| <b>TOTAL FEES REMITTED****</b>   |            |          | <b>US\$</b>  |          |

Remit in U.S. funds payable to: GSA (All registrations must be prepaid; purchase orders not accepted.)

### PAYMENT BY (CHECK ONE):

American Express  VISA  MasterCard  Discover  Check (No.) \_\_\_\_\_

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Name as appears on card \_\_\_\_\_

Signature \_\_\_\_\_

FAX TO: +1-303-357-1070

POST: 2019 GSA ANNUAL MEETING

P.O. Box 9140, Boulder, CO 80301-9140, USA

### Registration confirmations will be sent via one of the following methods:

◆ E-mail (if valid e-mail address is provided) or ✦ Fax, or ♦ Post.

\*Member fee applies to any current Professional OR Student/Early Career Professional (ECP) Member of GSA or Associated Societies. Discount does not apply to guest registrants.

† Guest or Spouse and Field Trip/Short Course Only registration fee does not allow access to technical sessions. § GSA offers a 50% discount on annual meeting registration fees for individuals who are both residing in and are citizens of low and low-middle income countries as classified by the World Bank.

\*\*\*\* A \$30 processing fee will be charged for cancellation of a professional registration if received in writing prior to 11:59 PM MDT on 26 August 2019. No refunds will be given after the cancellation deadline of 26 August 2019 for any registration types or events.

The Geological Society of America understands that unforeseen circumstances can prohibit attendance to the meeting. Refund requests for registration fees received after 26 August 2019 will be handled on a case by case basis. GSA will not accept any requests for refunds after 45 days from the end of the Annual Meeting.

| EVENT   | #                               | FEE          | US\$     |
|---|---------------------------------|--------------|----------|
| <b>LOCAL TOURS &amp; ACTIVITIES</b>   |                                 |              |          |
| 101- Heard Museum, Sun. 22 Sep.   |                                 | \$59         | Canceled |
| 102- Desert Botanical Garden, Mon. 23 Sep.  |                                 | \$64         | \$       |
| 103- Taliesin, Frank Lloyd Wright's School of Architecture and Carefree Tue. 24 Sep.  |                                 | \$81         | Canceled |
| 104- Hello Phoenix, Hello Scottsdale, Wed. 25 Sep.  |                                 | \$42         | Canceled |
| <b>SPECIAL EVENTS &amp; TICKETED FUNCTIONS</b>  |                                 |              |          |
| 301- Student and ECP Social Reception, Sun. 22 Sep.   |                                 | \$10         | \$       |
| 302- Paleo Soc Business Mtg & Awards Buffet Sun. 22 Sep.  | Professional (A)<br>Student (B) | \$45<br>\$15 | \$       |
| 303- AWG Breakfast & Awards Mon. 23 Sep.  | Professional (A)<br>Student (B) | \$42<br>\$15 | \$       |
| 304- Geoscience Information Society (GSIS) Luncheon, Mon. 23 Sep.   |                                 | \$54         | \$       |
| 305- NAGT, GSA Geosci Ed Div, & CUR Awards Luncheon, Tues. 24 Sep.  |                                 | \$54         | \$       |
| 306- GSA Hydro Division Luncheon, Awards, & Business Mtg, Tues. 24 Sep.   |                                 | \$54         | \$       |
| 307- GSA HPG Div Luncheon, Business Mtg, & Awards Tues. 24 Sep.   | Professional (A)<br>Student (B) | \$54<br>\$25 | \$       |
| 308- MSA Awards Lunch, Tues. 24 Sep.  |                                 | \$54         | \$       |
| 309- MGPV-MSA-GS Joint Reception Tues. 24 Sep.  | Professional (A)<br>Student (B) | \$10<br>\$5  | \$       |
| 310- GSA EEG Div Dinner & Awards Tues. 24 Sep.  | Professional (A)<br>Student (B) | \$45<br>\$20 | \$       |
| 311- GSA Planetary Div Banquet & G.K. Gilbert Awardee Tues. 24 Sep.   | Professional (A)<br>Student (B) | \$60<br>\$40 | \$       |
| <b>FIELD TRIPS</b>  |                                 |              |          |
| 402- Pluton Construction in the Sierra Nevada Viewed Using the StraboSpot Field Data System, Wed. 18 Sep. – Sat. 21 Sep.  |                                 | \$285        | \$       |
| 403- What is the Age of the Mazatzal Orogeny?, Thu. 19 Sep – Fri. 20 Sep.   |                                 | \$265        | \$       |
| 404- The Bidahochi Formation and Little Colorado River Basin Connection between Upper and Lower Colorado River Watersheds via Grand Canyon, Northeastern AZ, Thu. 19 Sep – Sat. 21 Sep.   |                                 | \$490        | Canceled |
| 405- Unraveling Volcanic and Related Processes Using Remotely Sensed Data Sets, Thu. 19 Sep. – Sat. 21 Sep.   |                                 | \$448        | \$       |
| 406- Volcanology and Associated Hazards of the San Francisco Volcanic Field, Thu. 19 Sep. – Sat. 21 Sep.  |                                 | \$335        | \$       |
| 407- Back to the Jurassic, Wed. 18 Sep. – Fri. 20 Sep.  |                                 | \$415        | \$       |
| 408- Exploring Arizona Earth Fissures, Fri. 20 Sep.   |                                 | \$200        | \$       |
| 409- Classic Springs and Karst Systems of Northern AZ, Fri. 20 Sep. – Sat. 21 Sep.  |                                 | \$235        | \$       |
| 410- Journey to the Grand Canyon, Fri. 20 Sep. – Sat. 21 Sep.   |                                 | \$660        | \$       |
| 412- Middle Proterozoic Rocks of the McDowell Mountains, AZ, Sat. 21 Sep.   |                                 | \$105        | \$       |
| 413- An Educator's Look at Phoenix-Area Geology, Sat. 21 Sep.   |                                 | \$204        | \$       |
| 414- Tectonic Development of the Colorado Plateau Transition Zone, Central AZ, Sat. 21 Sep.   |                                 | \$240        | \$       |
| 415- The Co-Evolution of Verde Valley and the Verde River, Central AZ, Sat. 21 Sep.   |                                 | \$96         | \$       |
| 416- Geoarchaeology of Prehistoric Agriculture, Soils, and Floodplain Dynamics on the Lower Salt and Middle Gila Rivers, AZ, Sat. 21 Sep.   |                                 | \$185        | \$       |
| 417- Lava and Pyroclastic flows of the Miocene Goldfield-Superstition Volcanic Province, Central AZ, Sat. 21 Sep.   |                                 | \$170        | \$       |
| 418- Dust on a Dangerous Highway, Sat. 21 Sep.  |                                 | \$112        | Canceled |
| 420- Catalina-Rincon Metamorphic Core Complex, Tucson, AZ, Wed. 25 Sep. – Fri. 27 Sep.  |                                 | \$385        | \$       |
| 421- A River is Born: Highlights of the Geologic Evolution of the Colorado River Extensional Corridor and its River, Wed. 25 Sep. – Sat. 28 Sep.  |                                 | \$488        | \$       |
| 422- Sonoran Desert Landforms via Mountain Biking, Thu. 26 Sep.   |                                 | \$250        | \$       |
| 423- The 2010 Schultz Fire, Thu. 26 Sep. – Fri. 27 Sep.   |                                 | \$248        | Canceled |
| 424- Geology and Paleontology of the Mid-Pleistocene El Golfo Badlands, Sonora, Mexico, Thu. 26 Sep. – Fri. 27 Sep.   |                                 | \$340        | Canceled |
| 425- The Rise and Fall of a Laramide Depositional System, Thu. 26 Sep. – Fri. 27 Sep.   |                                 | \$370        | \$       |
| 426- Exploring Superimposed Laramide Contraction, Porphyry Copper Systems, and Cenozoic Extension in the Globe-Superior-Ray-San Manuel area, East-Central AZ, Thu. 26 Sep. – Sat. 28 Sep. |                                 | \$595        | \$       |
| 427- The "Holey" Tour: Ron Greeley's Introductory Planetary Geology Field Trip, Thu. 26 Sep. – Sat. 28 Sep.   |                                 | \$475        | \$       |
| 428- Mesozoic to Cenozoic Sedimentation, Tectonics, and Metallogeny of Sonora, Mexico, Thur. 26 Sep. – Mon. 30 Sep.   |                                 | \$850        | \$       |
| 429- Volcanic and Marine Stratigraphy along the El Alamo Canyon, Santa Rosalia Basin, Baja California, Thu. 26 Sep. – Wed. 2 Oct.   |                                 | \$1250       | Canceled |
| 430- Walk in the Footsteps of the Apollo Astronauts, Fri. 27 Sep. – Sat. 28 Sep.  |                                 | \$265        | Canceled |
| 432- A Comparison of Two Caves in Southern AZ, Thu. 26 Sep.   |                                 | \$202        | \$       |

| <b>SHORT COURSES</b>   |                                   |               |          |
|--|-----------------------------------|---------------|----------|
| 501- High Resolution Topography and 3D Imaging I: Intro to Terrestrial Laser Scanning, Fri. 20 Sep.  |                                   | \$82          | \$       |
| 502- Everything You Wanted to Know about Luminescence Geochronology, Fri. 20 Sep.  |                                   | \$180         | \$       |
| 503- 3D Hydrogeological Modeling from Data to Model to Actual Use, Fri. 20 Sep.  |                                   | \$144         | \$       |
| 504- Field Safety Leadership, Fri.–Sat. 20-21 Sep.   |                                   | \$55          | \$       |
| 505- Geoh heritage: Concepts and Methods for Sharing Earth's Legacy for Economic, Societal, and Scientific Advancement, Fri.–Sat. 20-21 Sep. |                                   | \$180         | \$       |
| 506- Introduction to Petroleum Structural Geology, Fri.–Sat. 20-21 Sep.  |                                   | \$55          | \$       |
| 507- Structural and Stratigraphic Concepts Applied to Basin Exploration (Students only), Fri.–Sat. 20-21 Sep.                                |                                   | \$55          | \$       |
| 508- Sequence Stratigraphy for Graduate Students (Students only), Fri.–Sat. 20-21 Sep.   |                                   | \$55          | \$       |
| 509- Introduction to Drones (sUAS) in the Geosciences (Students only), Sat. 21 Sep.  |                                   | \$150         | \$       |
| 510- High Resolution Topography and 3D Imaging II: Introduction to Structure from Motion (SfM) Photogrammetry, Sat. 21 Sep.                  |                                   | \$82          | \$       |
| 511- An Introduction to Quantitative Topographic Analysis with the Topographic Analysis Kit (TAK) for TopoToolbox, Sat. 21 Sep.              |                                   | \$113         | \$       |
| 512- Detrital Zircon Geochronology, Sat. 21 Sep.   |                                   | \$70          | \$       |
| 513- Advances in Quantifying Sediment Budgets for River Systems, Sat. 21 Sep.  |                                   | \$144         | Canceled |
| 514- Your Thesis is Software: Tools for the Geoscientist to Help Write Better Code, Sat. 21 Sep.   | Professionals (A)<br>Students (B) | \$150<br>\$60 | Canceled |
| 515- Forensic Geochemistry, Sat. 21 Sep.   |                                   | \$160         | Canceled |
| 516- Ground-Penetrating Radar—Principles, Practice, and Processing, Sat. 21 Sep.   |                                   | \$110         | \$       |
| 517- Interpretation of Natural Gases, Sat. 21 Sep.   |                                   | \$280         | Canceled |
| 518- Successfully Planning and Executing Your Limnogeology/Paleolimnology Project, Sat. 21 Sep.  | Professionals (A)<br>Students (B) | \$80<br>\$60  | Canceled |
| 519- Preparing Undergraduates: Data-Rich Introductory Teaching Modules and Connecting Content to Geoscience Careers, Sat. 21 Sep.            |                                   | \$50          | \$       |
| 520- Geostatistical Modeling of Geochemical Data, Sat. 21 Sep.   |                                   | \$156         | Canceled |
| 521- Geological Mapping, Sat. 21 Sep.  |                                   | \$144         | Canceled |
| 522- Using the StraboSpot Data System for Structural Geology, Sat. 21 Sep.   |                                   | \$65          | Canceled |
| 523- Planetary Geologic Mapping for Students, Sat. 21 Sep.   |                                   | \$144         | \$       |
| 524- Inclusive and Effective College Science Classrooms, Sat. 21 Sep.  |                                   | \$75          | \$       |
| 525- Student and Young Professionals Career Workshop, Sat. 21 Sep.   |                                   | \$50          | Canceled |
| 526- Teaching Quantitative Structural Geology, Sat. 21 Sep.  |                                   | \$50          | \$       |
| 527- Introduction to Planetary Image Analysis with ArcGIS, Sat. 21 Sep.  |                                   | \$50          | \$       |
| 528- Making Geoscience Animations and Videos and Assessing Them in the Classroom, Sat. 21 Sep.   |                                   | \$185         | Canceled |
| 529- Scientific Writing Skills for Geologists Whose Native Language is Not English, Sat. 21 Sep.   |                                   | \$137         | Canceled |
| 530- Thinking Scientifically in a Changing World, Sat. 21 Sep.   |                                   | \$70          | \$       |
| 531- Petroleum Systems Fundamentals, Sat. 21 Sep.  |                                   | \$55          | \$       |
| <b>GEOCAREERS PROGRAMS</b>   |                                   |               |          |
| The GeoCareers Program is open to all attendees who want information on careers in the geosciences. Check the program for all events.        |                                   |               |          |
| 601 Geoscience Career Workshop, Sun 22 Sep.  | X if planning to attend           | \$0           | \$       |
| 602 GeoCareers Company Lightning Talks, Sun 22 Sep.  | X if planning to attend           | \$0           | \$       |
| 603 Social Media for Scientists, Lecture, Sun 22 Sep.  | X if planning to attend           | \$0           | \$       |
| 604 Social Media for Scientists, Lab, Sun 22 Sep.  | X if planning to attend           | \$0           | \$       |
| <b>GOODS</b>   |                                   |               |          |
| 901- Official 2019 GSA Annual Meeting Pint Glass   |                                   | \$7           | \$       |
| 901A- Pint Glass Tax 8.6%  |                                   | \$6.0         | \$       |
| <b>SUBTOTAL (page 2) — US\$</b>  |                                   |               |          |