

## GSA Schedule for Jackson School of Geosciences\*

\*Times subject to change. For up-to-date information, please visit:

<https://connects.geosociety.org/program>

| Presenter Name                                                                                                                                                                                             | Session Type     | Session/Title                                                                                                                                                       | Date    | Session Start Time | Room   | Author Availability |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|--------|---------------------|
| <b>Mueller, Megan</b> , Contreras-Lopez, Manuel, Lawton, Timothy F., <b>Malkowski, Matthew</b> , Gutiérrez Trejo, Luis J., <b>Stockli, Daniel F.</b>                                                       | Session Talk     | Revised chronostratigraphy and provenance of Mesozoic-Cenozoic volcanogenic strata, Baja California Peninsula, Mexico: Implications for long-term basin development | Oct. 19 | 8:00 AM            | 217C   | 8:05 AM             |
| <b>Simurda, Christine, Vasquez, Veronica</b>                                                                                                                                                               | Session Talk     | NextStep Geosciences: An Undergraduate Research Experience to Build the Future Geoscience Workforce                                                                 | Oct. 19 | 8:00 AM            | 301B   | 8:33 AM             |
| Mitchel Lambert                                                                                                                                                                                            | Presentation     | Importance of Relationships in Youth STEM Programming                                                                                                               | Oct. 19 | 8:00 AM            | 301B   | 8:48 AM             |
| Jasmine Atobajeun                                                                                                                                                                                          | Presentation     | Providing Hands-On Geoscience Experience to Texas High School Students                                                                                              | Oct. 19 | 8:00 AM            | 301B   | 9:03 AM             |
| Da, Jiawei, Sun, Chijun, Serach, Lily, Gallagher, Timothy M., Lu, Huayu, Huntington, Katharine W., Feng, Ran, Zhang, Hanzhi, Wang, Hanli, Ji, Shunchuan, Sharp, Zachary, Ji, Junfeng, <b>Breecker, Dan</b> | Session Talk     | Paleosol carbonates suggest jet-induced Pliocene rainfall seasonality mediated east Asian C4 expansion                                                              | Oct. 19 | 8:00 AM            | 212AB  | 9:40 AM             |
| <b>Gary, Marcus, Hunt, Brian</b>                                                                                                                                                                           | Session Talk     | Advancing the Conceptualization and Data Inputs to the Groundwater Model of the Devils River – Edwards-Trinity Aquifer System                                       | Oct. 19 | 1:30 PM            | 211    | 4:55 PM             |
| Adam Cawood, David Ferrill, Kevin J. Smart, <b>Qiqi Wang</b> , John Hooker, <b>Elizabeth Horne</b> , <b>Estibalitz Ukar</b> , Amanda Hughes, Benjamin Surpless, John Cannon                                | Topical Sessions | Faults, Fractures, and Geomechanics for the Energy Transition                                                                                                       | Oct. 19 | 8:00 AM            | 302C   |                     |
| <b>Eichhubl, Peter</b> , Gajda, Dawid, Chen, Xiaofeng, Espinoza, D. Nicolas                                                                                                                                | Session Talk     | Reactive Fracture Mechanics: Processes, Mechanisms, and Significance for the Energy Transition                                                                      | Oct. 19 | 8:00 AM            | 302C   | 9:00                |
| Glenn Sharman, <b>Matthew A. Malkowski</b> , Trystan Herriott, Erin Donaghy                                                                                                                                | Topical Session  | Advances and Applications in Geochronology for Interpreting Stratigraphic and Basin Records, Part I                                                                 | Oct. 19 | 8:00 AM            | 304C   |                     |
| Glenn Sharman, <b>Matthew A. Malkowski</b> , Trystan Herriott, Erin Donaghy                                                                                                                                | Topical Session  | Advances and Applications in Geochronology for Interpreting Stratigraphic and Basin Records, Part II                                                                | Oct. 19 | 8:00 AM            | 304C   |                     |
| <b>David Bahamon Pinzon</b> , Helen Siegel, <b>Jay L. Banner</b>                                                                                                                                           | Topical Session  | Community Engaged Research for Environmental Sustainability and Community Resilience                                                                                | Oct. 19 | 1:30 PM            | 302B   |                     |
| <b>Shanahan, Timothy Michael</b> , Todd, Victoria, Anderson, R Scott                                                                                                                                       | Poster: Topical  | Spatial Signatures of Temperature and Precipitation Changes in the Western US During the Younger Dryas                                                              | Oct. 19 | 8:00 AM            | Hall 1 | 3:30–5:30 PM        |

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| Dennis Terry, <b>Michael Young</b>                                                                                                                                                                                                                                                         | Topical Session | Recent Advances in Soil and Paleosol Science                                                                                                                                                   | Oct. 19 | 8:00 AM | 212AB  |                    |
| <b>Daniel F. Stockli, Margo Odum, Susie Cook,</b><br>Tatiana Sihpol, Erin Donaghy, Trevor<br>Waldien, Sydney Maguire                                                                                                                                                                       | Poster: Topical | Going with the Shear - New Insights into Lithospheric<br>Extensional and Strike-Slip Systems                                                                                                   | Oct. 19 | 8:00 AM | Hall 1 | 9:00-11:00<br>a.m. |
| <b>Horton, Brian K.</b> , Capaldi, Tomas N.,<br>Mackaman-Lofland, Chelsea, Perez, Nicholas<br>D., Fuentes, Facundo, Constenius, Kurt N.                                                                                                                                                    | Poster          | Tectonic Inheritance and the Orogenic Architecture of the Andes                                                                                                                                | Oct. 19 | 8:00 AM | Hall 1 | 3:30–5:30<br>p.m.  |
| <b>Cañamar, Janet Alice, Clarke, Julia Allison,</b><br>Santucci, Vincent L., Tweet, Justin S., Visaggi,<br>Christy C.                                                                                                                                                                      | Topical Session | Paleotería: Integrating Latino American Heritage and<br>Paleontology Through Educational Gameplay                                                                                              | Oct. 19 | 1:30pm  | 301B   | 3:18PM             |
| <b>Vasquez Serrano, Alberto</b> , Arce Saldaña, Jose<br>Luis, Rangel Granados, Elizabeth, Santiago<br>Figueroa, Lydia Valeria, Arango Galván,<br>Claudia                                                                                                                                   | Session Talk    | Contreras Shear Zone to the south of the Sierra de las Cruces.<br>Implications for seismic activity west of Mexico City                                                                        | Oct. 19 | 1:30 PM | 217B   | 2:55 PM            |
| <b>Scanlon, Bridget R</b> , Traum, Jonathan, Faunt,<br>Claudia C, Pool, Donald R                                                                                                                                                                                                           | Session Talk    | Enhancing Aquifer Storage through Managed Aquifer Recharge<br>and Conjunctive Use in the Southwestern US                                                                                       | Oct. 19 | 8:00 AM | 209    | 9:35 AM            |
| Mackin, Caroline, Lowery, Christopher<br>Michael, Borrelli, Chiara                                                                                                                                                                                                                         | Session Talk    | Using Laser Grain Size Analysis and SEM imaging to Investigate<br>Changes in Surface Carbonate Producers in the Southeastern<br>Atlantic (Walvis Ridge) across the Eocene-Oligocene Transition | Oct. 19 | 8:00 AM | 303C   | 9:25 AM            |
| Kurita, Remi, Martindale, Rowan, Bai, Wilson,<br>Vasseur, Raphaël, Kabiri, Lahcen, Bodin,<br>Stéphane                                                                                                                                                                                      | Poster          | Persistence During Stressful Times: A New Record of Bajocian<br>(Middle Jurassic) Reefs from the Central High Atlas Mountains of<br>Morocco                                                    | Oct. 19 | 8:00 AM | Hall 1 | 3:30-5:30<br>PM    |
| <b>Libbing, Sydney Q., Banner, Jay L.</b> , Porras,<br>Abel, Clamann, Andrew                                                                                                                                                                                                               | Session Talk    | Trace Metals in Austin-area Streams: Baselines for Urbanization<br>Impacts and Climate Resilience Planning                                                                                     | Oct. 19 | 8:00 AM | 302B   | 9:15 AM            |
| <b>Pagán González, Fernando J., Bahamón-<br/>Pinzón, David</b> , Siegel, Helen G., <b>Banner, Jay<br/>L.</b>                                                                                                                                                                               | Session Talk    | Impacts of Degrading Municipal Water Infrastructure on<br>Resilience in a Water Stressed Region                                                                                                | Oct. 19 | 1:30 PM | 302B   | 3:07 PM            |
| van der Kolk, Dolores A, Mastrangelo,<br>Francine M, Hovorka, Susan D, Tran, Valerie<br>H, Luciano, Angela K                                                                                                                                                                               | Session Talk    | A Carbon Capture & Storage (CCS) Comic Book Created to<br>Sustain Texas STEM and Public Acceptance: Carbon-nots to the<br>Rescue!                                                              | Oct. 19 | 8:00 AM | 214 B  | 10:05 AM           |
| <b>Bahamón-Pinzón, David</b> , Siegel, Helen,<br>Leclercq, Alexia, <b>Banner, Jay L.</b> , Pinon,<br><b>Carlos, Almanza, Susana, Haragan, Kelly,</b><br><b>Mullins, Laura</b> , Pagán, Fernando, <b>Cardenas,</b><br><b>Meinhard Bayani R, Siddiqui, Nabeeha,</b><br><b>Montoya, Didey</b> | Session Talk    | Drinking water quality assessment through community-based<br>participatory research in a suburban neighborhood in Texas: The<br>case of Austin’s Colony                                        | Oct. 19 | 1:30 PM | 302B   | 3:30 PM            |

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| <b>Horton, Brian K.</b> , Capaldi, Tomas N., Regier, Nicholas A., Starck, Daniel, Fuentes, Facundo                                                                            | Session Talk            | Building the South American Cordillera, Paleozoic to Recent: Insights from Geo-Thermochronology                                                                  | Oct. 20 | 1:30 PM | 304C                          | 1:50 PM       |
| <b>Poteet, Mary F., Loewy, Staci L., Dalziel, Ian W., Bell, Christopher J.</b>                                                                                                | Session Talk            | Structuring Belonging in Geosciences Through Continuous Cohort Support, Mentorship, and Experiential Learning and Reflection                                     | Oct. 20 | 1:30 PM | 301A                          | 2:20 PM       |
| M. Bayani Cardenas                                                                                                                                                            | Pardee Keynote Symposia | Devastation of a Coastal Aquifer from the Most Powerful Storm Ever: A Story of Resilience and Recovery                                                           | Oct. 20 | 1:30 PM | Stars at Night Ballroom B2&B3 | 2:50 PM       |
| Eleanor Cote                                                                                                                                                                  | Session Talk            | Using Project-Based Learning to Foster Creativity and Interest in the Geosciences                                                                                | Oct. 20 | 1:30 PM | 301A                          | 2:35 PM       |
| <b>Ketcham, Richard A.</b> , Garza, Melanie, <b>Hanna, Romy, Edey, Dave</b>                                                                                                   | Session Talk            | How's the Weather(ing) on the Moon? Sedimentological Analysis of In Situ Lunar Regolith from Apollo 17 Double Drive Tube 73001/2 using X-Ray Computed Tomography | Oct. 20 | 1:30 PM | 214C                          | 2:35 PM       |
| <b>Calle, Amanda Z., Smye, Katie M., Hoffman, David, Hennings, Peter H.</b>                                                                                                   | Session Talk            | Sustainable Subsurface Pore Space Utilization: Site Selection, Characterization, and Modeling                                                                    | Oct. 20 | 8:00 AM | 302C                          | 10:10 AM      |
| <b>Olariu, Cornel</b> , Carrabba, Cole, Gearon, James Hooker                                                                                                                  | Session Talk            | When the Rubber Hits the Road: Estimating the Source of Tire Microplastic Pollution in Texas                                                                     | Oct. 20 | 8:00 AM | Hall 1                        | 3:30–5:30 PM  |
| <b>Zaleski, Danielle, Olariu, Cornel, Davis, Marcy</b> , Bellinger, Brent, <b>Duncan, Daniel</b>                                                                              | Session Talk            | Temporal Microplastics Analysis of Lady Bird Lake, Austin, Texas Sediments: A Reflection of Austin's Urban Growth                                                | Oct. 20 | 8:00 AM | Hall 1                        | 3:30–5:30 PM  |
| Liam Courtney-Davies, Anthony Fuentes, <b>Barra Peak</b> , Adrian Tasistro-Hart                                                                                               | Topical Session         | Snowballs, Unconformities, BIFs and Beyond: Navigating the Neoproterozoic Rock and Climate Records Using Geochronology                                           | Oct. 20 | 8:00 AM | 304C                          |               |
| <b>Miriam Barquero Molina</b> , Angela Van Boening                                                                                                                            | Poster: Topical         | Balancing Tradition and Innovation: Evolving Geoscience Curricula for a Changing World                                                                           | Oct. 20 | 8:00 AM | Hall 1                        |               |
| F. Paul Bertetti, Yongli Gao, Brian Smith, <b>Brian Hunt</b>                                                                                                                  | Topical Sessions        | Recent Investigations of the Hydrogeology Edwards (Balcones Fault Zone) Aquifer, the Trinity (Hill Country) Aquifer, and Their Interactions, South-Central Texas | Oct. 20 | 1:30 PM | 209                           |               |
| <b>Befus, Kenneth S</b> , Harper, Abigail                                                                                                                                     | Poster: Topical         | Pyromorphite-hosted rare earth element enrichment at Bunker Hill Mine, Idaho                                                                                     | Oct. 20 | 8:00 AM | Hall 1                        | 9:00-11:00 AM |
| <b>Estibalitz Ukar, Andras Fall</b> , Michelle Gevedon, Besim Dragovic, Amy Moser, <b>Margo Odum, Eirini Poulaki</b> , Nikki M. Seymour, Clémentine Hamelin, Hannah Shabatian | Topical Session         | The Power of Hard Rocks: Driving the Energy Transition and Serving Society                                                                                       | Oct. 20 | 8:00 AM | 216AB                         |               |

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| <b>Goudge, Timothy A</b> , Craughwell, Meghan, Devoie, Élise, Goordial, Jacqueline, Morse, Peter, Shapiro, Rebecca                                                                                                                           | Poster: Topical              | Geomorphology and Surface Processes Across the Solar System                                                                          | Oct. 20 | 8:00 AM | Hall 1                        | 9:00–11:00 a.m. |
| <b>Daniel F. Stockli, Margo Odum, Susie Cook</b> , Tatiana Sihpol, Erin Donaghy, Trevor Waldien, Sydney Maguire                                                                                                                              | Topical Session              | Going with the Shear - New Insights into Lithospheric Extensional and Strike-Slip Systems                                            | Oct. 20 | 1:30 PM | 217D                          |                 |
| <b>Martindale, Rowan C., Bai, Wilson Z., Sylvester, Zoltan</b> , Trower, Elizabeth, Kabiri, Lahcen, Bodin, Stéphane                                                                                                                          | Session Talk                 | Tracking ocean acidification in the Early Jurassic using ooid size to reconstruct carbonate saturation state                         | Oct. 20 | 1:30pm  | 305                           | 3:25-3:45pm     |
| <b>Scanlon, Bridget R</b> , Rateb, Ashraf, Fakhreddine, Sarah, Pool, Donald R                                                                                                                                                                | Pardee Keynote Symposia Talk | Groundwater Buffer Enhances Water and Food Security during Climate Extremes                                                          | Oct. 20 | 1:30 PM | Stars at Night Ballroom B2&B3 | 2:00 PM         |
| <b>Halberstadt, Anna Ruth Weston</b> , Venturelli, Ryan Anne, Prothro, Lindsay                                                                                                                                                               | Session Talk                 | Reconstructing Antarctic Ice Sheet deglaciation from integrated marine and terrestrial datasets                                      | Oct. 20 | 8:00 AM | 213AB                         | 8:25 AM         |
| Lott, Hannah, <b>Desage, Leopold, Blankenship, Donald, Young, Duncan</b>                                                                                                                                                                     | Session Talk                 | Weaving the Radar Web Across Europa: How Well do We Sample Europa's Linear Structures with REASON?                                   | Oct. 20 | 8:00 AM | 214B                          | 9:05 AM         |
| <b>Ojo, Gabriel Segun, Lowery, Christopher Michael, Martindale, Rowan Claire, Sylvester, Zoltán</b>                                                                                                                                          | Poster: Topical              | A Preliminary Investigation into Ecological and Size Variation of South Atlantic Planktic Foraminifera Over the Last 6 Million Years | Oct. 20 | 8:00 AM | Hall 1                        | 3:30-5:30 PM    |
| <b>Malkowski, Matthew</b> , Sickmann, Zachary                                                                                                                                                                                                | Session Talk                 | Detrital Signals of Quaternary Tectonics, Climate, and Sea Level from the Sierra to the Sea, California, USA                         | Oct. 20 | 1:30 PM | 303C                          | 3:15 PM         |
| <b>Bai, Wilson, Martindale, Rowan, Sylvester, Zoltan</b> , Bodin, Stéphane, Trower, Lizzy, Kabiri, Lahcen                                                                                                                                    | Poster                       | Determining Carbonate Chemistry Changes across the Toarcian Oceanic Anoxic Event using Ooid Sizes and Machine Learning               | Oct. 20 | 8:00 AM | Hall 1                        | 3:30-5:30 PM    |
| <b>Jordan, Mercedes, Gulick, Sean, Grima, Cyril</b> , Prakash, Medha                                                                                                                                                                         | Session Talk                 | Using Radar Surface Reflectance to Investigate Cryptomaria: A Comparative Study of Lunar Deposits                                    | Oct. 20 | 1:30 PM | 214C                          | 3:35 PM         |
| Balakrishnan, Meena, <b>Hunt, Brian B., Helper, Mark A</b>                                                                                                                                                                                   | Session Talk                 | Beyond the Published Record: Hidden Legacies of Geologic Field Maps                                                                  | Oct. 20 | 8:00 AM | 302A                          | 8:25 AM         |
| <b>Ramadhan, Romal, Hosseini, Seyyed Abolfazl</b>                                                                                                                                                                                            | Session Talk                 | Efficient Boundary Modeling for CO <sub>2</sub> Storage in Saline Aquifers                                                           | Oct. 20 | 8:00 AM | 302C                          | 9:05 AM         |
| <b>Cace, Renee</b> , Huegele, Indah B., Bober, Katherine Mae Maxine, Matel, Theodore P., <b>Boucher, Lisa D.</b> , Hermsen, Elizabeth J, Manchester, Steven R., McCoy, Victoria E., Tweet, Justin, Santucci, Vincent L., Visaggi, Christy C. | Session Talk                 | Past Research and Future Directions for Mesozoic Macrofloras Collected in U.S. National Parks                                        | Oct. 20 | 1:30 PM | 302B                          | 3:05 PM         |
| <b>Gary, Marcus O, Sharp, John</b>                                                                                                                                                                                                           | Session Talk                 | Volcanic Karst Systems                                                                                                               | Oct. 21 | 8:00 AM | 211                           | 10:10 AM        |
| <b>Locmelis, Marek, Clark, Shelby Leann</b>                                                                                                                                                                                                  | Session Talk                 | The Complex Critical Mineral Assemblage of Lower Crustal Sulfide Deposits – A case study from the Ivrea-Verbano Zone in Italy        | Oct. 21 | 8:00 AM | 217A                          | 9:05-9:25 AM    |

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| <b>Awais, Mashal</b> , Siegel, Helen, <b>Bahamón-Pinzón, David</b> , <b>Abella-Gutierrez, Jose</b> , <b>Banner, Jay</b>                                                                                                         | Session Talk     | Geochemical Variability of Point Sources of Water Quality Degradation Contributing to Urban Stream Syndrome in Austin, Texas                                                                                            | Oct. 21 | 8:00 AM | 302A   | 8:50 AM       |
| Jasmine Gulick                                                                                                                                                                                                                  | Session Talk     | Using Small-Group Research Projects to Build Data Analytic Skills in High School Seniors                                                                                                                                | Oct. 21 | 1:30 PM | 301B   | 2:55 PM       |
| Moore, Rhianna D, <b>Goudge, Timothy A</b> , Klidas, Athanasios, Horgan, Briony H N, Broz, Adrian, Wordsworth, Robin, Farrand, William H                                                                                        | Session Talk     | Deep Chemical Weathering on Ancient Mars Landscapes Driven by Erosional and Climatic Patterns; <i>The G.K. Gilbert Award Session: Geology of Mars, Mercury, Asteroids, and Icy Satellites in Honor of Scott Murchie</i> | Oct. 21 | 1:30 PM | 214C   |               |
| <b>Cardenas, M. Bayani</b> , Varner, Thomas Scott, Kulkarni, Harshad Vijay, Kwak, Kyungwon, <b>Nguyen, William David</b> , Hossain, Alamgir, Shuai, Pin, Wang, Lichun, Ahmed, Kazi Matin, Datta, Saugata, Knappett, Peter S. K. | Special Lecture  | Tidal and Seasonal Groundwater-Surface Water Mixing Zones: Hot or Cold Spots for Arsenic Contamination? <i>GSA Hydrogeology Division Birdsall-Dreiss and Lamoreaux International Distinguished Lecture Series</i>       | Oct. 21 | 5:00 PM | 304A   |               |
| <b>Daniel Alessi, Marek Locmelis, Fangshuai Wu</b> , Karthik Ramachandran Shivakumar                                                                                                                                            | Poster: Topical  | Critical Mineral Resources and Recovery in the Americas: Emerging Methods in Exploration and Sustainable Extraction                                                                                                     | Oct. 21 | 8:00 AM | Hall 1 |               |
| <b>William Bailey</b> , Madhumita Chakraborty, Raja Das                                                                                                                                                                         | Topical Sessions | Microplastics in the Environment                                                                                                                                                                                        | Oct. 21 | 1:30 PM | 213AB  |               |
| Glenn Sharman, <b>Matthew A. Malkowski</b> , Trystan Herriott, Erin Donaghy                                                                                                                                                     | Poster: Topical  | Advances and Applications in Geochronology for Interpreting Stratigraphic and Basin Records                                                                                                                             | Oct. 21 | 8:00 AM | Hall 1 | 9:00-11:00 AM |
| <b>Barra Peak</b> , Haley Thoresen, Julie Fosdick                                                                                                                                                                               | Poster: Topical  | Broad Applications of Thermochronology to Understanding Geologic Rates and Processes Through the Sedimentary Record                                                                                                     | Oct. 21 | 8:00 AM | Hall 1 |               |
| James Ogg, <b>Richard Chuchla</b> , Yitian Xiao                                                                                                                                                                                 | Topical Session  | Deep-Time Earth and the AI Revolution                                                                                                                                                                                   | Oct. 21 | 1:30 PM | 301C   |               |
| <b>David Bahamon Pinzon</b> , Helen Siegel, <b>Jay L. Banner</b>                                                                                                                                                                | Poster: Topical  | Community Engaged Research for Environmental Sustainability and Community Resilience                                                                                                                                    | Oct. 21 | 8:00 AM | Hall 1 |               |
| James Golab, Andrea Croskrey, <b>Marcus Gary</b>                                                                                                                                                                                | Topical Session  | Exploring Groundwater Recharge and Management: Managed Aquifer Recharge and Other Innovative Tools for Water Supply Development and Operations                                                                          | Oct. 21 | 8:00 AM | 209    |               |
| Aaron Palke, James Shigley, Barbara Dutrow, <b>Kenneth Befus</b> , Christopher M. Breeding                                                                                                                                      | Topical Sessions | Mineralogical Characterization of Economic Resources: From Critical Minerals to Gemstones                                                                                                                               | Oct. 21 | 8:00 AM | 217A   |               |

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| <b>Ukar, Estibalitz</b> , Kelemen, Peter Boushall, <b>Arasada, Rama Chandrudu, Bhattacharya, Shuvajit, Ugurhan, Mert, Gil Egui, Ramon, Owusu-Adjapong, Edwina, Fall, András</b> , Teng, Yuntian, <b>Espinoza, David Nicolas, Gale, Julia F. W., Horne, Elizabeth A., Moscardelli, Lorena G.</b> | Poster: Topical | Subsurface Mafic and Ultramafic Rock Mapping and Analysis for Carbon Mineralization in the United States (SubMAP-CO2)         | Oct. 21 | 8:00 AM | Hall 1 | 3:30-5:30 PM |
| <b>Ian W.D. Dalziel, Staci L. Loewy, Patricia W. Dickerson, Joshua R. Malone</b>                                                                                                                                                                                                                | Topical Session | Laurentia Without Borders: Pre-Pangea Intercontinental Connections                                                            | Oct. 21 | 8:00 AM | 217C   |              |
| Ariana Osman, <b>Abdallah Zaki, Cornel Olariu</b>                                                                                                                                                                                                                                               | Poster: Topical | Delta Evolution from Rivers to the Shelf: Past, Present and Future Perspectives for Society                                   | Oct. 21 | 8:00 AM | Hall 1 |              |
| <b>Matthew A. Malkowski</b> , Sarah WM George, Emilia Caylor, Brandon Keough                                                                                                                                                                                                                    | Topical Session | Reconstructing Earth Surface Processes in Orogenic Systems                                                                    | Oct. 21 | 1:30 PM | 303AB  |              |
| <b>Sandra Juárez-Zúñiga, Daniel Stockli</b> , Elisa Fitz-Díaz, N. Betania Palacios-García, Tyson Smith                                                                                                                                                                                          | Topical Session | Paleozoic Tectonics of SW Laurentia Without Borders: Final Amalgamation of Pangea in the USA, Mexico, and South America       | Oct. 21 | 1:30 PM | 217B   |              |
| <b>Scanlon, Bridget R</b> , Fakhreddine, Sarah, <b>Malito, John</b> , Reedy, Robert C                                                                                                                                                                                                           | Session Talk    | Assessing Controls on Drinking Water Quality Violations in Community Water Systems in the United States                       | Oct. 21 | 1:30pm  | 302A   | 1:35pm       |
| Jaret, Steven J., Crow, Carolyn A., Gemma, Marina E, Runyon, Kirby D, Salvatore, Mark Robert, Sims, Melissa, Daly, Ronald Terik, Gullikson, Amber L., King, David T., Sapers, Haley, <b>Gulick, Sean S.</b> , Harwell, Megan, Mouser, Megan D, Erickson, Timmons, McCall, Naoma T               | Session Talk    | Findings from Impact Crater and Associated Research United States (ICAARUS) Workshop 2025                                     | Oct. 21 | 8:00 AM | 214C   | 9:45 AM      |
| <b>Prakash, Medha, Gulick, Sean S., Grima, Cyril</b> , Milliken, Ralph E., Lambert, Philippe                                                                                                                                                                                                    | Session Talk    | Opportunities for Planetary Analog Studies in Rochechouart Impactites                                                         | Oct. 21 | 8:00 AM | 214C   | 11:00 AM     |
| <b>Alfred, Soraya, Hesse, Marc, Gulick, Sean S.</b> , McCall, Naoma, Rae, Auriol, Tikoo, Sonia M.                                                                                                                                                                                               | Session Talk    | 66 Million Years of Sustained Hydrothermal Convection at Chicxulub Crater                                                     | Oct. 21 | 8:00 AM | 214C   | 8:30 AM      |
| <b>Gulick, Sean S.</b> , Kaskes, Pim, <b>Lowery, Christopher Michael</b> , Rae, Auriol, Tikoo, Sonia M.                                                                                                                                                                                         | Session Talk    | Insights from Chicxulub: Continued Exploration into the Geological and Biological Effects of Impacts                          | Oct. 21 | 8:00 AM | 214C   | 8:10 AM      |
| <b>Loewy, Staci L, Dalziel, Ian W. D.</b>                                                                                                                                                                                                                                                       | Session Talk    | Coats Land, a Piece of West Texas in Antarctica                                                                               | Oct. 21 | 8:00 AM | 217C   | 8:45 AM      |
| <b>Dalziel, Ian, Loewy, Staci, Dickerson, Patricia, Malone, Joshua</b>                                                                                                                                                                                                                          | Session Talk    | The Ellsworth-Coats Land (Antarctic) Promontory of Laurentia                                                                  | Oct. 21 | 8:00 AM | 217C   | 9:00 AM      |
| <b>Dickerson, Patricia W., Dalziel, Ian W. D., Loewy, Staci L, Malone, Joshua R</b>                                                                                                                                                                                                             | Session Talk    | Peripatetic Laurentian Terranes: Relations of Cuyania and the Ellsworth-Whitmore Mountains Block to the Laurentian 'Mainland' | Oct. 21 | 8:00 AM | 217C   | 9:45 AM      |

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| Michael Howard Young                                                                                                                                                                    | Special Lecture  | 2025 Michel T. Halbouty Distinguished Lecture: Comparing Life-Cycle Environmental Impacts and Costs of Electricity Generation Systems                                          | Oct. 21 | 12:15 PM | Stars at Night Ballroom B2&B3 | 12:15 PM |
| Miriam Barquero Molina, Angela Van Boening                                                                                                                                              | Topical Sessions | Balancing Tradition and Innovation: Evolving Geoscience Curricula for a Changing World, Part I                                                                                 | Oct. 22 | 8:00 AM  | 301B                          |          |
| Barra Peak, Haley Thoresen, Julie Fosdick                                                                                                                                               | Topical Sessions | Broad Applications of Thermochronology to Understanding Geologic Rates and Processes Through the Sedimentary Record                                                            | Oct. 22 | 8:00 AM  | 304C                          |          |
| Peak, Barra A., Stockli, Daniel F., Malkowski, Matthew A.                                                                                                                               | Session Talk     | One Billion Years of Sediment Recycling: Zircon Alpha Dose and Double Dates Reveal Multiple Sediment Transport Pathways for Cretaceous Foreland Strata in the Book Cliffs, USA | Oct. 22 | 8:00 AM  | 304C                          | 10:30 AM |
| Jasmine Gulick                                                                                                                                                                          | Session Talk     | The Art of Immersion through Scientifically Realistic World-Building                                                                                                           | Oct. 22 | 8:00 AM  | 302B                          | 8:25 AM  |
| Marisa Palucis, Alexander Michael Morgan, Timothy Goudge, Benjamin Cardenas, Abdallah Zaki                                                                                              | Topical Sessions | Geomorphology and Surface Processes Across the Solar System                                                                                                                    | Oct. 22 | 8:00 AM  | 212AB                         |          |
| Zaki, Abdallah S., Goudge, Timothy, Mohrig, David, Cardenas, Benjamin T., Day, Mackenzie, Stack Morgan, Kathryn Marie                                                                   | Session Talk     | Global distribution of martian sedimentary basins                                                                                                                              | Oct. 22 | 8:00 AM  | 212AB                         | 9:30 AM  |
| Goudge, Timothy A, Nelson, Mariel D, Turner, Leah, Gulick, Jasmine, Cote, Eleanor, Bent, Jessica, Hiatt, Eric C, Moore, Rhianna D, Carrington, Morgan A, Zaki, Abdallah, Prakash, Medha | Session Talk     | Planetary Surface Exploration Teaching and Outreach with Uncrewed Aerial Vehicles                                                                                              | Oct. 22 | 1:30 PM  | 214B                          | 2:30 PM  |
| Breecker, Dan, Ramos, Evan                                                                                                                                                              | Session Talk     | What can we learn from carbon isotope profiles of soil organic matter?                                                                                                         | Oct. 22 | 1:30 PM  | 212AB                         | 2:25 PM  |
| Daniel Alessi, Marek Locmelis, Fangshuai Wu, Karthik Ramachandran Shivakumar                                                                                                            | Topical Sessions | Critical Mineral Resources and Recovery in the Americas: Emerging Methods in Exploration and Sustainable Extraction, Part I                                                    | Oct. 22 | 8:00 AM  | 217A                          |          |
| Daniel Alessi, Marek Locmelis, Fangshuai Wu, Karthik Ramachandran Shivakumar                                                                                                            | Topical Sessions | Critical Mineral Resources and Recovery in the Americas: Emerging Methods in Exploration and Sustainable Extraction, Part II                                                   | Oct. 22 | 1:30 PM  | 217A                          |          |
| Barquero Molina, Miriam, Vasquez, Veronica V                                                                                                                                            | Session Talk     | Breath, Depth and Flex: Geoscience Curriculum Reform at UT Austin                                                                                                              | Oct. 22 | 8:00 AM  | 301B                          | 9:20 AM  |
| Miriam Barquero Molina, Angela Van Boening                                                                                                                                              | Topical Sessions | Balancing Tradition and Innovation: Evolving Geoscience Curricula for a Changing World, Part II                                                                                | Oct. 22 | 1:30 PM  | 301B                          |          |
| Brian Hunt, Jeffrey Paine, Mark Helper                                                                                                                                                  | Poster: Topical  | Geologic Mapping                                                                                                                                                               | Oct. 22 | 8:00 AM  | Hall 1                        |          |

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| James Golab, Andrea Croskrey, <b>Marcus Gary</b>                                                                                                                                                                                                                                                                        | Poster: Topical | Exploring Groundwater Recharge and Management: Managed Aquifer Recharge and Other Innovative Tools for Water Supply Development and Operations       | Oct. 22 | 8:00 AM | Hall 1 |               |
| Marisa Palucis, Alexander Michael Morgan, <b>Timothy Goudge</b> , Benjamin Cardenas, <b>Abdallah Zaki</b>                                                                                                                                                                                                               | Topical Session | Geomorphology and Surface Processes Across the Solar System                                                                                          | Oct. 22 | 8:00 AM | 212AB  |               |
| Ariana Osman, <b>Abdallah Zaki</b> , <b>Cornel Olariu</b>                                                                                                                                                                                                                                                               | Topical Session | Delta Evolution from Rivers to the Shelf: Past, Present and Future Perspectives for Society                                                          | Oct. 22 | 1:30 PM | 303AB  |               |
| <b>Matthew A. Malkowski</b> , Sarah WM George, Emilia Caylor, Brandon Keough                                                                                                                                                                                                                                            | Poster: Topical | Reconstructing Earth Surface Processes in Orogenic Systems                                                                                           | Oct. 22 | 8:00 AM | Hall 1 | 3:30-5:00 PM  |
| <b>Daniel Stockli</b> , Eirini Poulaki, <b>Sage Turek</b>                                                                                                                                                                                                                                                               | Poster: Topical | Insights into the Effects of Deep Underplating on the Subduction Interface from the Exhumed Attic Cycladic Crystalline Complex, Greece.              | Oct. 22 | 8:00 AM | Hall 1 | 3:30-5:00 PM  |
| <b>Turek, Sage</b> , <b>Stockli, Daniel F</b> , <b>Soukis, Konstantinos</b> , <b>Laskari, Sofie</b>                                                                                                                                                                                                                     | Topical Session | Subduction Zone Processes: Insights from Geology, Geochemistry, and Petrochronology                                                                  | Oct. 22 | 8:00 AM | 217C   |               |
| <b>Yale, Vivian E.</b> , <b>Bahamon Pinzon, David</b> , <b>Banner, Jay L.</b> , <b>Hunt, Brian</b> , <b>Rempe, Daniella M.</b>                                                                                                                                                                                          | Poster: Topical | Spatial Geochemical Variability in the Middle Trinity Aquifer in a Water Scarce Region of Central Texas                                              | Oct. 22 |         | Hall 1 | 3:30–5:30 PM. |
| <b>Mickler, Sierra Jade</b> , <b>Loewy, Staci L</b>                                                                                                                                                                                                                                                                     | Poster: Topical | Laboratory Research Experiences for High School Students, a Student’s Perspective                                                                    | Oct. 22 | 8:00 AM | Hall 1 | 9:00–11:00 AM |
| Thorsten Becker                                                                                                                                                                                                                                                                                                         | Session Talk    | Impact of mantle plumes on plate tectonics and the surface environment                                                                               | Oct. 22 | 8:00AM  | 214C   | 8:05-8:25     |
| <b>Amendola, Jonathan P.</b> , <b>Sherman, Dallas</b> , <b>Gulick, Sean S.</b> , <b>Goff, John A.</b> , <b>Jaeger, John M.</b> , <b>Durr, Rachael</b>                                                                                                                                                                   | Session Talk    | Subglacial erosion rates calculated from proglacial sediments in two marine terminating glaciers in West Greenland                                   | Oct. 22 | 8:00 AM | 213AB  | 9:15 AM       |
| <b>Williams, Claire M.</b> , <b>Bergan, Pearl</b> , <b>Gordon-Smith, Debbie-Ann</b> , <b>Henry, Denise</b> , <b>Martindale, Rowan Clare</b>                                                                                                                                                                             | Session Talk    | Tracing Nutrient Stress to Source: Hydrogeologic and Anthropogenic Drivers of Coral Decline in Northeast Jamaica                                     | Oct. 22 | 8:00 AM | 213AB  | 10:30 AM      |
| Ryan, Jeffrey, <b>Mosher, Sharon</b> , Keane, Christopher Matthews                                                                                                                                                                                                                                                      |                 | The “Vision and Change in the Geosciences” Initiatives for Geoscience Education Reform: Accomplishments, Common Insights, and Evolving Challenges    | Oct. 22 | 8:00 AM | 301B   | 9:45 AM       |
| <b>Martindale, Rowan C.</b> , Kemp, Melissa E., <b>Matheny, Ashley M.</b> , Turner, Leah, Gordon-Smith, Debbie-Ann D.S., Bolden, Isaiah W., Henry, Denise, Trench, Camilo, James-Williamson, Sherene, Ranston-Young, Emma, Rahamut, Matthew, Green, Andrew, <b>Gomes, Talita</b> , O'Quin, Megan, Boville, Alexandra E. | Poster: Topical | GEOPaths GO Jamaica 2025: Fostering a learning ecosystem for interdisciplinary Earth scientists through service learning and conservation in Jamaica | Oct. 22 | 8:00 AM | Hall 1 | 3:30-5:30 PM  |

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| Gomes, Talita, <b>Matheny, Ashley M.</b> ,<br><b>Martindale, Rowan</b> , Gordon-Smith, Debbie-Ann, Green, Andrew, <b>Henry, Denise</b> , Trench, Camilo, Team 2025, GEOPATHs GO Jamaica | Poster: Topical              | Ecological assessment of the Mangrove forest along the Black River, Jamaica: Connecting water quality and vegetation                                                                               | Oct. 22    | 8:00 AM | Hall 1                        | 9:00-11:00 AM |
| Lowery, Christopher                                                                                                                                                                     | Pardee Keynote Symposia Talk | Recovery of Life In and Around Marine Impact Craters                                                                                                                                               | Oct. 22    | 8:00 AM | Stars at Night Ballroom B2&B3 | 10:55 AM      |
| <b>Richard Denne, Toti E. Larson, Tingwei Ko</b>                                                                                                                                        | Field Course                 | Cretaceous of the Trans-Pecos: Effects of Eustasy, Bottom-Water Chemistry, Karsting, and Tectonics on Carbonates and Mudrocks                                                                      | Oct. 23-25 | 7:30 AM |                               |               |
| Jesse Kelsch, Thomas Shiller, <b>Patricia W. Dickerson</b> , Joe Satterfield, Kevin Urbanczyk, Elizabeth Koeman-Shields                                                                 | Field Course                 | Warren Hamilton Field Trip: The West Texas Nexus: Orogeny, Magmatism, K-Pg Boundary, Vertebrate Biostratigraphy, and Chihuahuan Desert Geohydrology                                                | Oct. 14-18 | 2:00 PM |                               |               |
| John White, <b>Shannon F. Rudine</b> , Don F. Parker, Gary Henderson, Kevin Urbanczyk                                                                                                   | Field Course                 | Volcanic stratigraphy of the Paradise Mountain-Pine Peak Caldera Complex, Davis Mountains Volcanic Field                                                                                           | Oct. 16-18 | 8:00 AM |                               |               |
| <b>Peter Flaig, Mariana Olariu, Cornel Olariu, Carlos Uroza, William A. Ambrose</b>                                                                                                     | Field Course                 | Sedimentologic, Biostratigraphic and Chemostratigraphic Insights into the Wilcox Group: Implications for Stratigraphic Correlations, Depositional Trends, Paleoclimate and CO <sub>2</sub> Storage | Oct. 17-18 | 8:00 AM |                               |               |
| <b>Thomas Adams</b> , Dianna Price, Alexis Godet, Daniel Lehrmann, Asmara Lehrmann                                                                                                      | Field Course                 | Walking in the footprints of giants: dinosaur tracks and trackways in Albian series of the San Antonio region                                                                                      | Oct. 17-18 | 8:00 AM |                               |               |
| <b>Christopher Lowery, Sean P.S. Gulick</b> , Pim Kaskes, James Witts                                                                                                                   | Field Course                 | Exploring The K/Pg Boundary in the Gulf of Mexico at the Brazos River Outcrops and the Gulf Coast Core Repository                                                                                  | Oct. 18    | 6:00 AM |                               |               |
| <b>Jay L. Banner, Alexander Janelle</b>                                                                                                                                                 | Field Course                 | Cave monitoring in central Texas: Insights into paleoclimatology, karst vadose zone hydrogeology, and cave geomorphology                                                                           | Oct. 18    | 7:30 AM |                               |               |
| <b>Sabrina Ewald</b> , Tiffany Cotledge, <b>Hilary Olson, Jon Olson</b>                                                                                                                 | Field Course                 | Energizing the Future: Innovative Energy Production and Environmental Stewardship in Texas                                                                                                         | Oct. 18    | 7:30 AM |                               |               |
| <b>Samantha Marie Krause</b> , Rolfe D. Mandel                                                                                                                                          | Field Course                 | Kirk Bryan Field Trip & The Hydrology of the Edwards Aquifer and the Geoarchaeology of Spring Lake, South-Central Texas                                                                            | Oct. 18    | 7:30 AM |                               |               |
| <b>C. M. Woodruff Jr.</b> , Linda Ruiz McCall, Patrick L. Abbott, <b>Carson W. Werner</b>                                                                                               | Field Course                 | Exploration of the Natural Bridge Caverns and Balcones Escarpment: Its Hydrogeologic Evolution and Geoheritage Attributes                                                                          | Oct. 18    | 8:00 AM |                               |               |