

| Unless otherwise noted, all activities are in the University of South Florida Marshall Student Center Conference registration is in the Royal Palm Ballroom C, second floor of the Marshall Student Center | | |
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| Monday | | |
| Start | End | |
| 7:30am | 5:30pm | Field trip - Florida's karst landscapes. Trip leaders: Sam Upchurch, Thomas Scott, Roger Portell, Michael Alfieri, Christopher Williams (departs from the Embassy Suites Hotel) |
| Tuesday | | |
| 8:00am | 5:00pm | Short courses |
| 8:00 | 10:00 | Short course 1: Stormwater management in karst - a regional perspective: Instructor, Bob Denton (Manatee Room, MSC 3705) |
| 8:00 | 10:00 | Short course 2: GIS approaches with LIDAR and imaging technologies for sinkhole documentation and analysis: Instructors, Benjamin Mittler & Jorge Gonzalez (Library, 1st floor, GIS lab) |
| 10:00 | 10:15 | Break (15 minutes) |
| 10:15 | 12:00 | Short course 1: Stormwater management in karst - a regional perspective: Instructor, Bob Denton |
| 10:15 | 12:00 | Short course 2: GIS approaches with LIDAR and imaging technologies for sinkhole documentation and analysis: Instructors, Benjamin Mittler & Jorge Gonzalez |
| 12:00 | 1:00 | Lunch (1 hour) |
| 1:00 | 3:00 | Short course 3: Designing and conducting tracer studies in karst: Instructors, Ralph Ewers & Keith White (Egret Room, MSC 3711) |
| 1:00 | 3:00 | Short course 4: Conducting geotechnical investigations in karst: Instructor, Mike Byle (Manatee Room, MSC 3705) |
| 3:00 | 3:15 | Break (15 minutes) |
| 3:15 | 5:00 | Short course 3: Designing and conducting tracer studies in karst: Instructors, Ralph Ewers & Keith White |
| 3:15 | 5:00 | Short course 4: Conducting geotechnical investigations in karst: Instructor, Mike Byle |
| 5:00 | 7:00 | Break (2 hours) |
| 7:00 | 9:00 | Welcome reception, Royal Palm Ballroom C |
| All technical sessions will be in Royal Palm Ballroom A & B | | |
| Wednesday | | |
| 8:15 | 9:00 | Introductory remarks - George Veni (5 min.), Bogdan Onac (5 min.), Jim LaMoreaux (5 min.), Harley Means (Florida State Geologist, 15 min.), David Horhota (Florida State Geotechnical Materials Engineer, 15 min.) (45 minutes) |
| 9:00 | 10:00 | Keynote speaker, Jonathan Martin, The carbonate critical zone: Impacts from recharge, reversing springs, residence times, and redox reactions |
| 10:00 | 10:20 | Break (20 minutes) |
| Resource monitoring and management - Sim Suter, chair | | |
| 10:20 | 10:45 | Martin Knez, Tadej Slabe & 15 others, Development challenges on classical karst |
| 10:45 | 11:10 | Jennifer Adkins Schudrowitz, Alyssa Balzen, & F. Paul Bertetti, Approaches to monitoring and regulation of an aquifer storage and recovery system in the Edwards Aquifer, south-central Texas, |
| 11:10 | 11:35 | George Veni, The vital role of speleological data bases in karst management |
| 11:35 | 12:00 | Zoe Williams & Shane McGary, Using minecraft to simulate field mapping in a karst environment |
| 12:00 | 2:00 | Lunch and International Association of Hydrogeologists meeting (2 hours) |
| 2:00 | 3:00 | Karst Clips I (1 hour) - Ira Sasowsky, chair (10 talks, 5 minutes/talk with 1 minute transition between talks. No time for Q&A) |
| 3:00 | 3:20 | Break (20 minutes) |
| GIS/mapping - Issam Bou Jaoude, chair | | |
| 3:20 | 3:45 | Lillian Smith, Daniel Doctor & Cheyenne Cox, Mapping closed depressions in the karst region of northwest Puerto Rico using lidar-derived elevation data obtained in 2018 after Hurricane Maria |
| 3:45 | 4:10 | Hannah Hitchcock & Angel Acosta-Colon, 3d modeling of the Cabachuelas Natural Reserve cave system using lidar technology and ArcGIS Pro |
| 4:10 | 4:35 | Giorgi Chartolani, Douglas Aden, Ira Sasowsky, Brittany Parrick & Timothy Fisher, Morphology of sinkholes on an extensive glaciated karst plain, Bellevue, Ohio, USA |
| 4:35 | 5:00 | Brittany Parrick & Douglas Aden, Modernizing access to Ohio's detailed karst mapping |
| 5:00 | 6:30 | Break for dinner (1 hour, 30 minutes) |
| 6:30 | 8:30 | Beck Memorial reception and poster session, Royal Palm Ballroom C |
| 7:30 | 8:30 | Planning meeting for 18th Sinkhole Conference, Royal Palm Ballroom A&B |
| Thursday | | |
| 8:15 | 8:25 | Announcements and Updates (10 minutes) |
| Geophysics/Remote sensing - Pete Hutchinson, chair | | |
| 8:25 | 8:50 | Casey Albritton & Clint Kromhout, A near-surface geophysical investigation of sinkhole alignments with Porter Hole Sink in Lake Jackson, Tallahassee, Florida |
| 8:50 | 9:15 | Heidi Harwick, Yongli Gao, Blake Weissling & Alexis Godet, Integrated study of the UTSA campus within the Balcones Fault Zone and Edwards Aquifer Recharge Zone in Bexar County, Texas |
| 9:15 | 9:40 | Peter Hutchinson, Alex Balog & Kate McKinley, Imaging buried bedrock topography through inverted terrain conductivity mapping |
| 9:40 | 9:55 | Break (15 minutes) |
| 9:55 | 10:20 | Gregory Byer, Use of multiple geophysical methods to identify karst related voids at a gypsum quarry in central Texas |
| 10:20 | 10:45 | Lewis Land and Michael Jones, Exploring the upper limits of electrical resistivity profiling: Carlsbad Caverns National Park, New Mexico, USA |
| 10:45 | 11:00 | Break (15 minutes) |
| 11:00 | 12:00 | Karst Clips II (1 hour) - Ira Sasowsky, chair (10 talks, 5 minutes/talk with 1 minute transition between talks. No time for Q&A) |
| 12:00 | 1:30 | Lunch (1 hour, 30 minutes) |
| Hydrology - Clint Kromhout, chair | | |
| 1:30 | 1:55 | Ben Tobin, Junfeng Zhu, Steven Webb & James Fox, Seasonality of flow paths and storm responses in a fluvio-karst system |
| 1:55 | 2:20 | Beatriz de la Torre Martinez, Matias Mudarra Martinez, Bartolomé Andreo Navarro & José Manuel Gil Márquez, Vertical shaft monitoring to assess mixing processes in karst aquifers |
| 2:20 | 2:45 | John Barry, Peter Kang, E. Calvin Alexander Jr. & Martin Larsen, Comparing and contrasting standard dye tracing monitoring techniques |
| 2:45 | 3:00 | Break (15 minutes) |
| 3:00 | 3:25 | John Barry, James Walsh, Anthony Runkel & Thomas Aley, Identifying recharge and flow in fractured crystalline rock using karst characterization methods |
| 3:25 | 3:50 | Gheorghe Ponta, Stuart McGregor, Rebecca Bearden & Christine Easternwood, Hydrogeological investigations of a Tuscombiana Darter habitat in and near the Jaya Springs on Redstone Arsenal, a U.S. Army facility in Madison County, Alabama, USA |
| 3:50 | 4:00 | Break (10 minutes) |
| 4:00 | 6:00 | ASTM round table (2 hours) |
| 6:00 | 7:00 | Break (1 hour) |
| 7:00 | 9:00 | Banquet and guest speaker - Jim Griswold, The sinkhole that wasn't: Royal Palm Ballroom A&B |
| Friday | | |
| 8:15 | 8:25 | Announcements and Updates (10 minutes) |
| Engineering/Geotechnical/Modeling - Lewis Land, chair | | |
| | | Kara Posso, Brian Smith, Mark Adams, Clover Clamons & Zach Lanfear, Environmental protection of features during highway construction in the faulted, karstic, Cretaceous Edwards limestone in Austin, Texas |
| 8:25 | 8:50 | Said Irvani, Evaluation of catastrophic ground collapses and subsurface remediation program at Holiday Travel Park, Florida |
| 8:50 | 9:15 | Kevin Blackwood, Geohazard mitigation and environmental protection concerning wind energy projects over karst terranes |
| 9:15 | 9:40 | Break (10 minutes) |
| 9:40 | 9:50 | Kyle Compare, Ming Ye, & Anke Meyer-Baese, Using LSTM neural networks to simulate stage of Wakulla Springs in northwest Florida |
| 9:50 | 10:15 | Pierricola Lollino & Mario Parise, Sinkhole hazard quantitative assessment: Insights from the application of numerical modelling techniques |
| 10:15 | 10:40 | Olanrewaju Muli & Hassan Ali Babaie, Sinkhole susceptibility analysis using machine learning for west central Florida |
| 10:40 | 11:05 | Break (10 minutes) |
| Geomorphology/Formation of karst and sinkholes - Clint Kromhout, chair | | |
| 11:15 | 11:40 | Isabella Serena Liso & Mario Parise, Sinkhole development at the freshwater-saltwater interface in Apulia (southern Italy) |
| 11:40 | 12:05 | Ira Sasowsky, Michael Byle & Anthony Rana, Breadth is critical when evaluating zone-of-influence and collapse sinkhole risk for carbonate rock quarries |
| 12:05 | 12:30 | Issam Bou Jaoude, Examples of successes and failures of dams in the karst of Lebanon |
| 12:30 | 1:30 | LUNCH (1 hour) |
| 1:30 | 6:00 | Field trip - Roles of karst in flood control & water supply management. Trip leaders: Jason LaRoche, Robin Spiegel, David DeWitt (depart from parking lot 3A next to Marshall Center) |