Society of Independent Professional Earth Scientists

SIPES 58th Annual Meeting & 2022 Convention

Deer Valley, Utah

June 13-16, 2022

The Independent’s Challenge in Today’s World

Co-hosted by the SIPES National Organization & SIPES Midland Chapter
Complimentary Shuttle Service Information

Complimentary shuttle service is available between the hotel and historic Main Street departing from the hotel every 30 minutes from 7:00 a.m. to 11:00 p.m. This service is offered to all in-house guests. No reservations are necessary.

To request a pickup, call (435) 658-9500.
## SIPES 2022 Convention at a Glance

### Monday - June 13
- **8:30 AM - 4:30 PM** Registration
- **9:00 - 10:00 AM** Chapter Chairmen's Meeting
- **9:00 - 10:00 AM** SIPES Presidents' Council Meeting
- **10:00 AM - 12:00 PM** SIPES BOD Meeting
- **12:00 - 1:00 PM** Lunch for Board of Directors, Chapter Chairmen, & Past Presidents
- **1:00 - 2:00 PM** SIPES Foundation BOD Meeting
- **3:00 - 4:30 PM** SIPES Foundation Seminar
- **6:00 - 8:00 PM** Icebreaker

### Tuesday - June 14
- **8:00 AM - 4:00 PM** Registration
- **8:15 - 11:45 AM** Technical Sessions
- **12:00 - 1:15 PM** All-Convention Luncheon & Annual Business Meeting
- **1:30 - 4:30 PM** Guided Hikes Tour
- **2:00 - 5:00 PM** Heber Valley Railway
- **2:00 - 5:00 PM** Mountain Biking Tour
- **2:30 - 4:30 PM** Art Gallery Tour
- **6:30 - 9:30 PM** SIPES Awards Banquet

### Wednesday - June 15
- **8:30 AM - 12:00 PM** Registration
- **8:15 - 11:00 AM** Technical Sessions
- **11:00 AM - 12:00 PM** Ethics Course
- **12:15 - 4:45 PM** Utah Mountain/Sundance Tour
- **12:30 - 5:00 PM** Fly Fishing Excursion
- **1:00 - 5:00 PM** River Rafting Trip
- **6:30 - 9:00 PM** Cornerstone Group Reception (by invitation only)

### Thursday - June 16
- **9:00 AM - 4:00 PM** Post-Convention Field Trip to Central Wasatch Range and Park City

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Major John Wesley Powell’s 1869 Journey Down the Green and Colorado Rivers of Utah on His Way to the Grand Canyon
by Thomas C. Chidsey, Jr. — Utah Geological Survey, Emeritus

These words by geologist, explorer, and Civil War veteran Major John Wesley Powell, August 3, 1869, describe the scene as he and his comrades floated along the Colorado River in what is now southern Utah. Anyone who now travels his same route or visits the various national parks and surrounding regions likewise has their attention “arrested by some new wonder!” Powell is best known for his historic journey along the Colorado River through the depths of the Grand Canyon and the huge rapids he encountered over 150 years ago. However, of that 1,000-mile journey, about 570 miles were down the Green and Colorado Rivers through Utah.

Many of the scenic areas, spectacular canyons, and famous landmarks along the rivers were named by Powell and his party. These include Flaming Gorge, Split Mountain, and Desolation, Labyrinth, and Glen Canyons to list just a few. Unlike the rocks that range in age from Precambrian to Permian that Powell later observed in the Grand Canyon, the rocks he saw in Utah range in age from Precambrian all the way through Tertiary. Powell described and attempted to explain the creation of many strange and wonderous geomorphic features, such as the Green River’s flow through Split Mountain—a classic example of a superposed stream. Powell encountered incredible entrenched meanders, like the iconic Bowknot Bend, that added miles to their journey. They were awe inspired by beautifully vegetated alcoves now observed along the reservoir that bears his name, Lake Powell.

Although the most famous part of Major John Wesley Powell’s remarkable 1869 expedition was the journey of what Powell called “the Great Unknown” through the Grand Canyon, he first spent a majority of his time exploring and describing the geology of the magnificent canyons of the Green and Colorado Rivers in Utah. Powell’s expedition was truly a major contribution to science and an incredible adventure that still inspires a spirit of curiosity and sense of wonderment today.

Tom Chidsey is an Emeritus Senior Scientist for the Utah Geological Survey (UGS), having officially “retired” in 2020. He received his BS and MS degrees in 1974 and 1977, respectively, both in geology from Brigham Young University. During his 45-year career, Tom has worked as a production geologist for Exxon in south Texas, and as an exploration geologist in Utah and southwestern Wyoming for Celsius/Wexpro before joining the UGS in 1989. He has served as Rocky Mountain Section (RMS) President of the AAPG, President of the Utah Geological Association (UGA), and currently is a board member of the AAPG RMS Foundation.

Tom has a wide interest in geology and has numerous publications on Utah petroleum geology, carbon dioxide resources and sequestration, hydrogeology, oil and gas reservoir outcrop analogs, microbial carbonates, Mars rover protocols using Utah sites, and the general geology of Utah’s parks. He also has been an editor/co-editor of eleven guidebooks and bulletins on Utah geology, and currently serves as an associate editor for UGA’s Geology of the Intermountain West online journal. Tom has been the recipient of numerous prestigious awards, most recently the AAPG RMS Robert J. Weimer Lifetime Contribution Award in 2021.
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Monday, June 13

8:30 a.m. - 4:30 p.m. ..................................... Registration ................................................................. Monet Foyer
9:00 - 10:00 a.m. ........................................ Chapter Chairmen's Meeting ......................................... Chamonix
9:00 - 10:00 a.m. ........................................ SIPES Presidents' Council Meeting .......................... Marseille
10:00 a.m. - 12:00 p.m. ............................ SIPES BOD Meeting .................................................. Mt. Blanc
12:00 - 1:00 p.m. ........................................ Lunch for Board of Directors, .............................. Cena Patio
               Chapter Chairmen & Past Presidents
1:00 - 2:00 p.m. ........................................ SIPES Foundation BOD Meeting ........................... Mt. Blanc
3:00 - 4:30 p.m. ........................................ SIPES Foundation Seminar ................................. Monet
6:00 - 8:00 p.m. ........................................ Icebreaker (Registered Attendees Only) ................. Courtyard

Tuesday, June 14

8:00 a.m. - 4:00 p.m. ..................................... Registration ................................................................. Monet Foyer
8:15 - 11:45 a.m. ....................................... Technical Sessions .................................................. Monet
12:00 - 1:15 p.m. ....................................... All-Convention Luncheon ...................................... Renoir
               & Annual Business Meeting
1:30 - 4:30 p.m. ........................................ Guided Hikes Tour
2:00 - 5:00 p.m. ....................................... Heber Valley Railway Excursion
2:00 - 5:00 p.m. ....................................... Mountain Biking Tour
2:30 - 4:30 p.m. ....................................... Art Gallery Tour
6:30 - 9:30 p.m. ........................................ SIPES Awards Banquet ........................................ Renoir
Wednesday, June 15

8:30 a.m. - 12:00 p.m. Registration ................................................................. Monet Foyer
8:15 - 11:00 a.m. Technical Sessions ................................................................. Monet
11:00 a.m. - 12:00 p.m. Ethics Course ................................................................. Monet
12:15 - 4:45 p.m. Utah Mountain/Sundance Tour
12:30 - 5:00 p.m. Fly Fishing Excursion
1:00 - 5:00 p.m. River Rafting Trip
6:30 - 9:00 p.m. Cornerstone Group Reception (*by invitation only*)

Thursday, June 16

9:00 a.m. - 4:00 p.m. Post-Convention Field Trip to Central Wasatch Range and Park City

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**Golfing**

There are many fantastic golf options in the Park City and Heber Valley areas. Stein Eriksen is affiliated with the Promontory Ranch Club (Pete Dye course), The Canyons, and Park Meadows Country Club. There are also many excellent public courses in the surrounding area including the Wasatch Mountain State Park, Homestead Resort, Soldier Hollow, and the Park City Municipal Course.

**Park City Museum**

After an $8.95 million renovation and expansion, the Park City Museum is open for visitors. It is located at 528 Main Street in the heart of Old Town and is open every day from 11:00 a.m. - 5:00 p.m.

**Utah Olympic Park**

The Olympic Park hosted fourteen medal events at the 2002 Winter Olympic Games. The park offers tours, bobsled rides, alpine slides, and zip line rides, luge rides, and rope courses. You can also observe the athletes in training, and certain days they have special events. Open daily.

**Other Activities**

- **The Canyons Resort** — Golf course, Farmers Market and scenic gondola rides.
- **Horseback Riding** — Experience a guided horseback ride through the aspens!
- **Hot Air Balloon Rides** — Peaceful one-hour rides are available in the morning (weather permitting) over beautiful Park City.
- **Park City Ghost Tours** — A 75-minute walking tour of Historic Park City sharing ghost stories about the many haunted buildings around Main Street. Tours leave every day from Miner’s Park (across from 412 Main Street) at 8:00 p.m.
- **Park City Mountain Resort** — Alpine Slide, Zip Rider, Climbing Wall, and Alpine Coaster.
- **Scenic Drives** — From wildflowers and endless solitude to the majestic Timpanogos Mountains, there are a variety of places to escape to by car.

*This information is provided by the Stein Eriksen Lodge Concierge.*
Tuesday, June 14

8:15-8:50 a.m. — Monte Swan and Brian Clemishire — MagmaChem Institute, Sonoita, AZ
"Prevention of Production Problems: North America Case Histories"

8:50-9:25 a.m. — Michael K. Grimm — Rising Star Energy, Horseshoe Bay, TX
"Lessons Learned from Four Decades of Finding Oil"

9:25-10:00 a.m. — Robert L. "Bob" Lindsay — Lindsay Consulting, Midland, TX
"Getting to Know Your Reservoirs: Examples from the Permian Basin, Williston Basin, and Middle East"

10:00-10:25 a.m. — Break

10:25-11:00 a.m. — Neil D. Sharp, #3446 — Rampike Resources, and Trisha Fanning — Ardor Environmental, Denver, CO
"The Political Economy of Environmental Regulations"

11:00-11:35 a.m. — L. Steve Melzer, #1081 — Melzer CO2nsulting, Midland, TX
"Field Characterization, Tax Credits, and Other Business Opportunities for Independent Geoscientists in the Time of CO2 Storage Projects"

Wednesday, June 15

8:15-8:50 a.m. — Graham Bain — Enverus (DrillingInfo), Calgary, Alberta, Canada
"What the Frack – Barrier Analysis in the Permian Basin"

8:50-9:25 a.m. — L. Rogers Hardy — Canopy E&P Services, Houston, TX
"The Quest from the Marsh out onto the Shelf and Beyond: How the Offshore Exploration Journey in the Gulf of Mexico Evolved and Led to a Global Revolution"

9:25-10:00 a.m. — Tom Fekete — Tall City Exploration, Midland, TX
"Wolfcamp Development, Southern Delaware Basin"

10:00-10:20 a.m. — Break

"Stratigraphy and Petroleum Exploration of the Mogollon Slope, Arizona"

10:55-12:00 p.m. — John E. Jordan, Jr., #3590 — Jordan Consulting, Houston, TX
Ethics Course — "Grey Areas: Interactive Application of Business Ethics in the Geoscience Profession"
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Entrance to Meeting Events

Entrance to all SIPES Convention events and tours will be by convention name badge. Attendees must be registered for the meeting in order to attend the Monday evening icebreaker.

SIPES Member, Associated Member and Non-Member Registration include the following:
- Icebreaker
- Technical Sessions on Tuesday & Wednesday
- All-Convention Luncheon on Tuesday
- SIPES Ethics Course on Wednesday
- Ability to register for all optional tours and events

Spouse/Guest Registration includes the following:
- Icebreaker
- Ability to register for all optional tours and events

Extra fees are required for the SIPES Foundation Seminar, all optional tours and events, including the Awards Banquet, and the Post-Convention Field Trip. Fees for all events increased after May 13, 2022. Some events may still be available for purchase through the registration desk.

If space is still available, non-registered spouses and guests may register for the Thursday Post-Convention Field Trip at the higher rate.

Icebreaker

Monday, June 13 — 6:00-8:00 p.m.

Meet with friends and colleagues while enjoying hors d’oeuvres and drinks at the 2022 Convention Icebreaker. Each registrant will receive two complimentary drink tickets. A cash bar will also be available. Convention registration is required to attend this event. No exceptions.

All-Convention Luncheon & Annual Business Meeting

Tuesday, June 14 — 12:00-1:15 p.m.

Carbon Dioxide, the Gas of Life

by Dr. William Happer, Professor Emeritus, Department of Physics, Princeton University

The much-vilified gas, carbon dioxide or CO₂, is in fact a benefit to life on Earth. The greening of Earth from the modest increases of CO₂ over the past century are already evident from satellite monitoring of Earth's surface vegetation. CO₂ is indeed a greenhouse gas, but its effects on Earth's climate will be very small and benign. The basic scientific data that supports these truths will be discussed.

Dr. William Happer is a specialist in the spectroscopy of atoms and molecules, radiation propagation in the atmosphere, and spin-polarized atoms and nuclei. He invented the sodium guidestar that is used in astronomical adaptive optics to correct for the degrading effects of atmospheric turbulence.

He has published over 200 peer-reviewed scientific papers. He is a member of the American Academy of Arts and Sciences, the U.S. National Academy of Sciences, the American Philosophical Society, and other scientific organizations.

The SIPES All-Convention Luncheon is included in the registration fee for members and non-members. Spouses or guests who want to attend must purchase an individual ticket for this event.
Ethics Course

Wednesday, June 15 — 11:00 a.m.-12:00 p.m.

Grey Areas: Interactive Application of Business Ethics in the Geoscience Profession

by John E. Jordan, Jr., #3590

Most large oil companies require their employees to have yearly ethics training which is often broad and dry. State licensees are also required to have one hour of ethics training every year; this talk will fulfill that requirement. Although I do not have a degree in philosophy or jurisprudence, I have been an international explorationist for 35 years and therefore I am aware of many situations where individual or business ethics were tested. I have been giving ethics lectures in the Houston area for several years. Several years ago, I gave a lecture introducing the theory of philosophical ethics and explored the difference between moral compass and ethics and how this relates to business ethics. The following year, I reviewed this model and then applied it to our industry with LIVE feedback from the audience via polling technology. This year there will be a brief review of the Business Ethics Model, a review of the SIPES/AAPG code of ethics/conduct and focus heavily on examples where your business ethics are tested. I need to hear from YOU to make this experience more meaningful! Please submit ethics examples you have encountered in your career to me at (John.Jordan.062255@gmail.com) to be considered for use in the lecture. Examples will be anonymous, and the situation will be modified, but the issue will be the same as submitted. Using the examples, the audience will provide immediate digital feedback while we discuss Business Ethics focusing on making sound, consistent and ethical decisions. Come and join this entertaining and spirited discussion about the “grey areas” and make sure to bring a phone that is capable of texting. I will provide all participants with an education certificate upon request.

John E Jordan, Jr. is a Past President of the AAPG DPA, Past President of the Houston Geological Society, and a licensed geoscientist in Texas. He is a retired project geophysical advisor who has worked for several Fortune 500 oil companies in California and Texas. Prior to joining Anadarko in 2007, he worked at Kerr McGee, Noble Energy, Arco, and Chevron. During 35 plus years in the oil industry, he has worked deep-water and onshore projects from Alaska and the Gulf of Mexico to the Middle East, Asia, Africa, and South America. John is a graduate of Wright State University where he received both a BSc and an MSc from the College of Science and Mathematics majoring in geology and geophysics. He does not hold degrees in philosophy or jurisprudence, but enjoys lively debate on most any subject.

There is no fee to attend this talk; it is presented to help meeting attendees meet ethics course requirements.

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Signature Collection Guided Hikes
1:30-4:30 p.m.
$125 per person

Want to see silver mine ruins, mountain peaks and lakes all in the same day? Want to see all of them without overexerting yourself? Then this is the perfect excursion for you. All of the hikes are about 10-20 minutes driving distance from each other and each hike is 30-60 minutes in round trip length! Any ability can do this excursion. This is a good excursion if you want to sightsee and experience fantastic scenery from many different areas around Park City, but still do some hiking as well. Plus a lot of these trails are "secret trails" that are tough to find on your own!

*Includes round-trip transportation, guided tour, water, snack, tax and gratuity.*

Mountain Biking Tour
2:00-5:00 p.m.
$210 per person

Whether you have never been on a mountain bike or if you have some riding experience, this ride will be customized to your needs. Since Park City has over 400 miles of trails, it is very easy to plan a trail that fits your exact needs. And you will see some beautiful scenery along the way!

*Includes round-trip transportation, guided tour, water, snack, tax and gratuity.*

Heber Valley Railway Excursion
2:00-5:00 p.m.
$150 per person

We will begin with a 30-minute drive down to Heber Valley to the railroad depot. This approximately 90-minute trip offers incredible views of the Wasatch Mountains, the wide-open vistas of Deer Creek Reservoir, and the beautiful Heber Valley. The Deer Creek Express departs from the depot and follows the shores of Deer Creek Reservoir to Decker Bay.

*Includes round-trip transportation, water, snack, railroad ticket, tax and gratuity.*

Art Gallery Tour
2:30-4:30 p.m.
$115 per person

This tour will begin with a five-minute drive down to historic Main Street. Here, we will go on a walking tour of the street telling you the rich history and many stories of the area. Main street is home to many famous art galleries, full of mountain photography, various styles of paintings, and many unique sculptures. We will visit a few galleries and learn about these different styles of art.

*Includes round-trip transportation, guided tour, water, snack, tax and gratuity.*

(Continued)
Wednesday, June 15

Utah Mountain & Sundance Tour
12:15-4:45 p.m.
$155 per person

This tour starts with a scenic drive through Guardsman Pass. You will have the opportunity to stop, get out and take pictures of some beautiful mountain overlooks. On the way down from Guardsman Pass, we will drive in to the Swiss-inspired town of Midway, Utah, where we will get some good views and pictures as well. After Midway, we'll be off to enjoy a scenic drive along the Deer Creek Reservoir going down into Provo Canyon, where we will arrive at Robert Redford’s Sundance Resort. At Sundance, we will do a small walking tour of the area and have the option to grab a snack as well. After Sundance, we will stop to see beautiful Bridalveil Falls.

Includes round-trip transportation, picnic lunch by the Provo River, water, guided tour, tax and gratuity.

Fly Fishing Excursion
12:30-5:00 p.m.
$370 per person

There are a variety of fishing locations in the Deer Valley area. Fly fishing guides will provide you with all the necessary fishing gear, and whether you are experienced or a beginner enthusiast, you will enjoy this four-hour fishing tour.

Includes round-trip transportation, box lunch, fishing license, water, guided tour, tax and gratuity.

River Rafting Trip
1:00-5:00 p.m.
$165 per person

We will guide you down the beautiful, mountain-fed Provo River for a mild, but fun-filled excursion. This will be on a 6-9-person raft. The river float is five miles and has class I-II rapids. The river is full of beautiful evergreen trees, granite cliffs, crystal clear water, and fish/bird sightings are guaranteed!

Includes round-trip transportation, box lunch, guided raft trip, water, tax and gratuity.

CHATEAUX DEER VALLEY, STEIN ERIKSEN LODGE, AND AREA DINING OPTIONS

Please plan your breakfast and lunch meals ahead of time as dining options are limited at the Chateaux.

Cena Ristorante - open daily for breakfast, and Wednesday-Sunday for dinner. Located at the Chateaux.

First Tracks Kaffe - a coffee shop selling beverages and pastries. Open from 7:30 a.m. to 2:30 p.m. Located on the lower level of the Mountain Lodge at Stein Eriksen.

Troll Hallen - more formal dining offering breakfast, lunch, and dinner. Open from 7:00 a.m. to midnight. Located on the main level of the Mountain Lodge at Stein Eriksen.

The 7880 Club - open for lunch and dinner. Located about 1.5 miles from the hotel at the Stein Eriksen Residences. Call 435-940-6602 for more information.

Goldener Hirsch (an Auberge Resort) - open for lunch 11:30-2:00 and dinner 5:30-10:00. Located across the street at 7520 Royal Street.

(This information is accurate as of the time of publication.)
Thanks to the following 2022 Convention Silver Sponsors

Support SIPES Foundation Scholarships by Purchasing Additional Raffle Tickets!

Tickets are available for purchase at the Registration Desk and before the Tuesday evening Awards Banquet.
Come to the SIPES Awards Banquet for a fun-filled evening with new colleagues and old friends! A cash bar will be available at 6:30 p.m., followed by dinner at about 7:15 p.m. Following dinner, there will be an awards ceremony to recognize retiring national directors.

Deborah K. Sacrey, #1271, of Houston, Texas, and Marc D. Maddox, #2777, of Midland, Texas, will receive SIPES Honorary Membership. In the Society's fifty-eight-year history, this award has only been presented on twenty-five previous occasions.

Deborah Sacrey

Marc Maddox

The SIPES Outstanding Service Award will be presented to Patrick A. Nye, #3105, of Corpus Christi, Texas, who will be honored for his many years of service to both SIPES and the SIPES Foundation.

Patrick Nye

Winning tickets for the SIPES Foundation's 2022 No Hassle Raffle will be drawn.

You do not need to be present to win!

Raffle tickets will be sold prior to the dinner at $10 per ticket - cash only.

Utah designated the California Seagull (Larus californicus) as official state bird in 1955. The Sea Gull Monument in Salt Lake City honors the gull, who it says saved the people of Utah by consuming the Rocky Mountain crickets which were destroying all the crops in 1848.
Thursday, June 16 — 9:00 a.m. - 4:00 p.m.

Fee: $200 per person

"Central Wasatch Range and Park City Field Trip"
Led by Dr. Ron A. Harris, Professor of Geological Sciences, Brigham Young University

The Park City area is at the heart of one of the most diverse, well-exposed and accessible geological repositories on Earth. Features of nearly every geological event that shaped the face of western North America are represented. This field trip will visit the most accessible of these features exposed in the canyons of the central Wasatch Range (Figure 1). These canyons are like a series of 2 km deep serial sections through a part of Earth's crust that has experienced a complete Wilson Cycle, and provide a three-dimensional display of several chronicles of Earth history and processes.

Figure 1

The trip will mostly move from the oldest chronicles to the youngest. The journey through time starts at outcrops that document dramatic climate swings from icehouse to greenhouse conditions in the late Pre-Cambrian before trilobites saved the day (Chronicles of Rodinia). Next we will walk through a marine transgression that flooded western North America and deposited around 10 km of sediment in the Oquirrh Basin (Chronicles of Panthalassa). Our next few stops will inspect fold and thrust sections (Figure 2) of these sedimentary units that were deformed by arrival of the Sevier foreland thrust belt at around 100 Ma (Chronicles of Cordillera, part 1). We will then visit exposures of igneous bodies and deposits signaling the arrival of the volcanic arc to the area (Chronicles of Cordillera, part 2). Park City was founded to mine the mineral deposits caused by this short magmatic event.

In multiple places throughout the journey we will traverse the active Wasatch Fault, which formed the Wasatch Range and threatens the livelihood of the 2 million people that live on top of it.

Dr. Ron Harris is a Professor of Geological Sciences at BYU who specializes in plate tectonics and associated geophysical hazards. He was born and raised in Oregon and received his BSc. in Geological Sciences from the University of Oregon. He also has a Masters Degree in Geophysics from the Geophysical Institute of Alaska, and a Ph.D in Geodynamics from University College London in the U.K.

Tour price includes round-trip bus transportation, guided tour, box lunch, bottled water, taxes and gratuities.
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Thanks for joining us in Deer Valley, Utah!

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