Conventional Thinking in an Unconventional World

SIPES
54th ANNUAL MEETING
& 2017 Convention

June 26-29, 2017 • Vail, Colorado
FOUR SEASONS RESORT

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<table>
<thead>
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<th>Monday – June 26</th>
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<th>Wednesday – June 28</th>
<th>Thursday – June 29</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-9:45 a.m.</td>
<td>8:30 a.m.-4:30 p.m.</td>
<td>8:30 a.m.-12:00 p.m.</td>
<td>9:00 a.m.-5:00 p.m.</td>
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<tr>
<td>SIPES Foundation BOD Meeting &amp; Continental Breakfast</td>
<td>Registration</td>
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<td>Post-Convention Field Trip to Glenwood Springs — led by Steve Sonnenberg</td>
</tr>
<tr>
<td>8:30 a.m.-5:00 p.m.</td>
<td>8:25-11:15 a.m.</td>
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<td>On the Cover: &quot;Eagle River, Colorado East Entrance to Glenwood Canyon.&quot; From the Denver &amp; Rio Grande — Western Pacific Railroad souvenir album. Original photo by William Henry Jackson circa 1898.</td>
</tr>
<tr>
<td>Registration</td>
<td>Technical Sessions</td>
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<td>10:00 a.m.-2:00 p.m.</td>
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<td>Chapter Chairman’s Meeting</td>
<td>Jeep Tour</td>
<td>Hike &amp; Click</td>
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<tr>
<td>SIPES Presidents’ Council Meeting</td>
<td>Horseback Riding</td>
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<td>All-Convention Luncheon &amp; Annual Business Meeting</td>
<td>Fly-Fishing Tour</td>
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<td>6:00-7:30 p.m.</td>
<td>1:30-4:15 p.m.</td>
<td>1:30-5:00 p.m.</td>
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<tr>
<td>Icebreaker</td>
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(337) 501-9979 cell
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EMAIL: wthunderrx@aol.com
Vail, Colorado!! — Plan Now to Attend!

On behalf of the SIPES Corpus Christi Chapter and the National Board of Directors, we are excited to invite you to Vail, Colorado for the SIPES 54th Annual Meeting and 2017 Convention. Our meeting headquarters will be located at one of the most fabulous venues in Vail, the Four Seasons Resort! This five-star hotel has many magnificent views of the valley beginning at the foot of Vail Mountain. Amenities include: a spa, fitness center, pool, business center, concierge and close proximity to numerous boutiques, shops, restaurants and galleries in Vail Village.

Our meeting theme is “Conventional Thinking in an Unconventional World” and our technical program will be divided into three segments: Geology & Geophysics; Business Applications; and Field Discoveries & Success Stories. Confirmed speakers and topics are listed on pages 22 and 23.

The SIPES Foundation Seminar will feature Bill Nye, “the Fluid Engineer Guy” who will discuss his adventurous life’s works on all seven continents and in many remote outposts throughout the world. Peter Stark of IHS will present his industry projections and perspective for 2017 during the meeting’s All-Convention Lunch. In addition to our icebreaker, several diverse tours and/or excursions will be offered that will be sure to entertain our members, spouses and families. These are listed on pages 26-28.

For the first time, the SIPES Annual Meeting will offer a Discovery Room for registered members. Members will be able to show their prospects in a presentation format, and also in a private setting to SIPES Members. Registered non-members are eligible to enter the area for viewing and for follow-up meetings. More information is available on page 7.

Finally, you won’t want to miss the post-convention geological field trip on Thursday to the Glenwood Springs Canyon area led by Dr. Steve Sonnenberg, #2158, from Colorado School of Mines. Incredible geologic diversity awaits the participants as the tour traverses through Paleozoic and Mesozoic strata along the $490 million highway. There is something for everyone at our 2017 SIPES Convention. Bring your family and enjoy the view!

Don’t forget to register early and save on all fees!

Patrick A. Nye
Chairman

Brian S. Calhoun
Vice Chairman

LANNY BUTNER
Petroleum Engineering Consultant

Lanny Butner & Associates
1026 North Sandpiper Circle cell: (316) 253-8081
Wichita, KS 67230
Email: lanny_butner@hotmail.com
The SIPES 2017 Headquarters Hotel will be the five-star Four Seasons Resort located at the foot of Vail Mountain in Vail, Colorado.

Amenities include a pool, fitness center, spa and complimentary WiFi service.

**SIPES Group Rate** — $235 per night plus tax for single or double occupancy in a double/double or king bedded non-smoking room. If space is available, SIPES Convention attendees can reserve rooms at this reduced rate three days prior to and three days after the SIPES Meeting dates. Check-in time is 4:00 p.m. and check-out time is 12:00 p.m.

**Reservations** — A deposit of the first night’s room and tax must be held with a credit card to guarantee the reservation. There is a 21-day cancellation period. To make your room reservations:

- Call (303) 389-3301, ask for the Reservations Department, and mention that you are with the SIPES Group. Please note that this is the best booking option if you would like to book pre and/or post nights at the group rate, or pick a room type other than those listed above.
- Book through the Four Seasons website (www.fourseasons.com/vail), and use the SIPES Group Code - SIPE0617.

To help SIPES meet hotel reservation requirements, please register for the meeting by May 15 to maintain a reservation in the SIPES group block at the Four Seasons Resort. After May 15, hotel reservations without a convention registration will be moved out of the SIPES block into a regular rate room, which is substantially more expensive. Thank you for helping to make this meeting a success!

**Reservation Deadline Date** — Thursday, May 25, 2017 (5:00 p.m. Mountain Time) to receive the SIPES Group Rate.

**Parking** — Overnight valet parking is available for $25 per night.

**Airlines** — Denver International Airport is serviced by most major airlines, including American Airlines, Delta, Frontier, JetBlue, Southwest and United Airlines. Denver International Airport is 130 miles from Vail via I-70, which can be heavily travelled during peak traffic times.

The smaller Eagle County Airport (EGE), offers many direct flights and is serviced by American Airlines and United Airlines. It is located 35 miles east of Vail.

**Ground Transportation** — Colorado Mountain Express provides shuttle service from both the Denver International Airport and Eagle County Airport in Vail to the Four Seasons Resort. Please see their website www.coloradomountainexpress.com or call 1-800-525-6363 for pricing and schedule information.
Welcome to the SIPES Discovery Room

What is it?
The SIPES Discovery Room is a new forum for the exchange of exploration concepts and ideas. It is a place for SIPES Members to showcase, share, and discuss active projects. Whether you are selling a deal, looking for a deal, looking for guidance, or simply want to brag about a cool project already in the books, this room is where you should go. It is a forum for working explorers to share best practices, experiences, knowledge, and hopefully help open doors, get some business done, and find some oil and natural gas!

Every Discovery Room offeror will be a SIPES Member and every attendee will be a registered Convention attendee. This is a SIPES event, for SIPES Members and SIPES Convention attendees.

What is it not?
The SIPES Discovery Room is not a technical forum, there are no technical talks (though I think we all agree prospect pitches are perhaps some of the very best technical talks). It is not a “prospect expo” either, though we anticipate plenty of business to occur. We strongly encourage you to attend the outstanding technical sessions that will be at the Convention on Tuesday and Wednesday mornings.

Ok, I have a project (or 12) that I want to show. Now what?
A limited number of folding tables will be available to be reserved at no charge. It is literally a table and two chairs; it is not a “booth.” Your project(s) will decorate the table. You may bring an easel or two to display maps, or eye candy, as long as they stay within the area behind the table. The Discovery Room will be open on Tuesday from 4:15-5:15 p.m. and Wednesday from 1:30-5:00 p.m. during the Convention and you will be expected to be reasonably present in the room, principally occupying the table area. We expect some demand for space, and do not want to have to turn anyone away. As such, the final format for the SIPES Discovery Room and reserved hours are subject to change.

Bonus opportunity: If you are interested, at the back of the room, there will be a modest presentation space. This is an opportunity to make or practice a more formal pitch, in a short (10-15 minute) PowerPoint guided talk/introduction to your prospect/case study. Again, this is not a technical program, it is essentially an open-mic (not recorded – what happens in the room, stays in the room). Again, based on interest, the schedule is subject to format modification.

I’m interested in seeing what my colleagues are working on, and what they have to show.
Register for the SIPES 2017 Convention and make the effort to walk through the Discovery Room doorway.

SIPES Discovery Room Registration

- Member Name & Number: ________________________________________________________________

- Contact Info:   Email: _____________________________________________________________ Cell: ____________________________

- Mailing Address: ______________________________________________________________________________________________

- Prospect Information: State, Basin, Type (conventional, enhanced recovery, recompletion, shale, etc.), Depth, op/no-op – You may register as many prospects as you like. ________________________________________________________________

______________________________________________________________

Email this information to the SIPES National Headquarters Office sipes@sipes.org before June 1, 2017.
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PRESIDENT / GEOLOGIST

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AAPG/DPA #3962, SIPES #1964

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316-269-9052
dmcmginness@cmxoil-gas.com
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Brian S. Calhoun ............... Corpus Christi
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Carol M. Shiels ..................................................................................... Dallas, TX
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Michael R. Vasicek ............................................................................... Midland, TX

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PATRICK A. NYE

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361-452-1435
patrick@nyexp.us ● www.nyexp.us
### Convention Schedule

#### Monday, June 26

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<tr>
<th>Time</th>
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<th>Event</th>
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<tbody>
<tr>
<td>8:00 - 9:45 a.m.</td>
<td>Piney B</td>
<td>SIPES Foundation BOD Meeting &amp; Continental Breakfast</td>
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<tr>
<td>8:30 a.m. - 5:00 p.m.</td>
<td>Fulford Foyer</td>
<td>Registration</td>
</tr>
<tr>
<td>10:00 a.m. - 2:00 p.m.</td>
<td>Bighorn A</td>
<td>SIPES BOD Meeting</td>
</tr>
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<td>10:00 a.m. - 12:00 p.m.</td>
<td>Piney B</td>
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<td>Piney A</td>
<td>SIPES Presidents’ Council Meeting</td>
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<tr>
<td>2:00 - 1:00 p.m.</td>
<td>Meadows Foyer</td>
<td>Lunch for Board of Directors, Chapter Chairmen &amp; Past Presidents</td>
</tr>
<tr>
<td>3:00 - 5:00 p.m.</td>
<td>Piney A</td>
<td>SIPES Foundation Seminar: ‘Tales from Seven Continents — Living an Explorer’s Dream’ by Bill Nye</td>
</tr>
<tr>
<td>6:00 - 7:30 p.m.</td>
<td>Bighorn Ballroom</td>
<td>Icebreaker (Registered Attendees Only!)</td>
</tr>
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</table>

#### Tuesday, June 27

<table>
<thead>
<tr>
<th>Time</th>
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<td>Piney</td>
<td>Technical Sessions</td>
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<td>9:00 a.m. - 12:00 p.m.</td>
<td>Piney</td>
<td>Vail Area Hike</td>
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<td>Bighorn A</td>
<td>Jeep Tour</td>
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<td>Piney</td>
<td>Horseback Riding Adventure</td>
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<td>Piney A</td>
<td>Flower Market Class</td>
</tr>
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<td>12:00 - 1:15 p.m.</td>
<td>Bighorn Ballroom</td>
<td>All-Convention Luncheon &amp; Business Meeting</td>
</tr>
<tr>
<td>1:30 - 4:15 p.m.</td>
<td>Piney</td>
<td>Technical Sessions</td>
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<td>Betty Ford Alpine Gardens</td>
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<td>Piney</td>
<td>Mountain Bike Tour</td>
</tr>
<tr>
<td>3:15 - 4:15 p.m.</td>
<td>Piney</td>
<td>Ethics Course by Bill Finley, #2167</td>
</tr>
<tr>
<td>4:15 - 5:15 p.m.</td>
<td>Fulford</td>
<td>SIPES Discovery Room</td>
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<tr>
<td>6:30 - 9:00 p.m.</td>
<td>Bighorn Ballroom</td>
<td>SIPES Awards Banquet</td>
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Please note: The SIPES Registration Desk will close at 5:00 p.m. on Monday. If you are arriving at the hotel after that time, please advise the SIPES office before Friday, June 23, 2017. Your registration materials can be left with the hotel check-in desk.
**Wednesday, June 28**

<table>
<thead>
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<td>Hike &amp; Click</td>
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<td>12:00 - 3:00 p.m.</td>
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<td>Vail Food Tour</td>
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<td></td>
<td>Fly-Fishing Tour</td>
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<td>Fulford</td>
<td>SIPES Discovery Room</td>
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<tr>
<td>6:30 - 9:00 p.m.</td>
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<td>Cornerstone Group Reception (by invitation only)</td>
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**Thursday, June 29**

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</table>
| 9:00 a.m. - 5:00 p.m. | Post-Convention Field Trip to Glenwood Springs 
 led by Steve Sonnenberg, #2158 |

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**D. J. Bergeron**

INDEPENDENT EXPLORATION GEOLOGIST  
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SIPES #2141

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PRESIDENT  
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**Eduardo A Riddle, PE**  
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**Louis C. Bortz**  
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(303) 831-1912  
(303) 832-6048
Tales from Seven Continents — Living an Explorer’s Dream
by Bill Nye — Drilling Fluids Engineer — Worldwide

Bill Nye will discuss his forty-year career as a fluids engineer, and his assignments on all seven continents. Highlights include:

- **North America** — A start in South Texas, where experience is delivered in huge volumes. Learn fast or sink quickly forced the ones who survived to develop and understand three basic principles: Competence; Communication; and Operations. Assignments included South Texas; Padre Island; GOM; Central California; the North Slope Alaska; Prudhoe Bay; and a management assignment on the enormous Hibernia platform, supervising fluids operations on two rigs drilling 28,000 foot high-angle wells in the stormy, iceberg-strewn North Atlantic.

- **South America** — Projects included logging six years in Peru’s Amazon and coastal deserts; a year in Ecuador, followed by a challenging three years in Venezuela with excursions of work in Argentina and offshore Trinidad. Speak or swim, I had to learn Spanish.

- **Australia** — A call brought my family into citizenship and many years of work in the diverse outback; offshore Indian Ocean across the Tasman Sea to dramatic scenes in New Zealand, both offshore and land-based.

- **Asia** — Consulting work included the South China Sea off Shekou; the Java Sea off Jakarta and the jungles of south Sumatra. There were nine years of work in New Guinea in the Southern Highlands triple canopy rain forests of the Purari and Fly River basins. Pure wild could describe the annual 400 inches of rain, chopper flights, enormous gas wells, rivers, Birds of Paradise and especially snakes found there. Troubleshooting assignments included other remote corners such as Myanmar (Burma), Bismarck Sea, Baku, Caspian Sea, Chukotka Siberia, the Bering Sea including fearful nights offshore Bangladesh, Bay of Bengal, and drilling a dangerous relief well into an underground blowout.

- **Europe** — I worked on offshore rigs in the tempestuous North Sea, living for short times in Scotland and Norway, which opened travel doors to other European destinations. For those who would enjoy seeing countless furious storms and monster seas, I’d recommend Norwegian Sector, North Sea in winter.

- **Africa** — Consulting work at those ever-remote drilling locations including Mauritania, and Malabo on the island of Bioko in Equatorial Guinea. I became one of the fortunate few to visit Luba Crater, one of the most beautiful and hidden jewels of nature in Africa, and extremely hard to reach.

- **Antarctica** — Perhaps the culminating reward to this lucky career was the assignment on the ANDRILL Project. In two seasons, we drilled the two deepest wells in Antarctic history, recovering rock core below the Ross Ice Shelf for Science, a geoclimatic study. Working on the ice was the biggest highlight in a fortunate career, and proved that working in our industry can truly become ‘A Ticket to Ride,’ seeing many corners of this wild planet.

Bill Nye is a drilling fluids engineer with forty years experience worldwide. He is a Vietnam veteran and has travelled and worked on all seven continents. He became an Australian citizen in 1992 and emigrated to New Zealand in 2005. He is currently a drilling fluids consultant and has owned Adventure Books in Oamaru, New Zealand since 2012.
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Thunder is currently seeking non-operated working interest participation in projects and prospects.

Contact Walter S. Light Jr.
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Entrance to Meeting Events

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

SIPES Member, Associated Member and Non-Member Registration includes the following items:

- Icebreaker
- Technical Sessions on Tuesday & Wednesday a.m.
- All-Convention Lunch on Tuesday
- SIPES Ethics Course
- SIPES Discovery Room
- Ability to register for all optional tours and events
- Access to priority registration for the Thursday Post-Convention Field Trip

Spouse/Guest Registration includes the following:

- Icebreaker
- Coffee & Water Service in the hospitality area
- Ability to register for all optional tours and events
- Access to priority registration for the Thursday Post-Convention Field Trip

Extra fees are required for the SIPES Foundation Seminar, all optional tours and events, SIPES Awards Banquet, and the Post-Convention Field Trip. Fees for all events increase after May 25, 2017. You may register for tours and events in advance. Some events may also be available at a higher rate during the meeting through the registration desk.

Non-registered spouses and guests may not attend the convention icebreaker or register for optional tours and events. After May 25, if space is available, non-registered spouses and guests may register for the Thursday Post-Convention Field Trip at the higher rate.

All SIPES Convention Events and Tours are non-transferable.

There are no refunds for any cancelled tour or event after May 25, 2017.

Icebreaker

Monday, June 26 — 6:00-7:30 p.m.

Meet with friends and colleagues while enjoying outstanding hors d'oeuvres and drinks at the 2017 Convention Icebreaker. Each registrant will receive two complimentary drink tickets. A cash bar will also be available. Convention registration is required to attend.

All-Convention Luncheon & Annual Business Meeting

Tuesday, June 27 — 12:00-1:15 p.m.

Petroleum Industry Perspective 2017 — OPEC is Back and So Are U.S. Drillers

by Philip H. "Pete" Stark,
Senior Research Director & Advisor,
IHS Markit — Englewood, Colorado

Fundamentally, world oil and gas markets are impacted by the unconventional revolution. The surge in North American tight oil and shale gas production upset the supply-demand balance resulting in substantial adjustments to global oil and gas flows and prices. OPEC’s move to defend its market share was short lived. In November 2016, OPEC decided to resume its role in balancing the market and pledged to reduce production by 1.2 MMb/d along with 558 Mb/d from non-OPEC producers. Initial OPEC compliance with pledges has been sufficient to move oil prices into a new band above $50/bbl and the oil market is rebalancing. But there are significant downside risks including a surge in U.S. drilling and production.

Over the last two years U.S. producers have significantly increased capital efficiency and lowered upstream break-even costs. More tier 2 and tier 3 wells break even at $50 oil prices. Led by the Permian Basin, U.S. oil production could add more than 600 Mbd of new production by year end and could challenge the efficacy of OPEC reductions. Nevertheless, if the oil market maintains a rough balance U.S. oil production is projected to grow 1.9 MMb/d to about 11 MMb/d by the mid-20’s.
Philip H. “Pete” Stark is Senior Upstream Research Director and Advisor for IHS Markit in Englewood, Colorado. Prior to joining IHS in 1969, Stark was an exploration geologist for Mobil Oil. Dr. Stark has authored papers on E&P databases, hydrocarbon shows, horizontal drilling, U.S. natural gas, global oil and gas resources, global E&P trends, giant fields and unconventional O&G. He co-authored special IHS studies of North American gas supplies, unconventional gas supplies, North American and global tight oil and global reserves replacement.

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

Ethics Course

Tuesday, June 27 — 3:15-4:15 p.m.
Louisiana Board of Professional Geoscientists and Ethical Behavior
by Bill Finley, #2167, Aquila, LLC

Included is a brief introduction to the Louisiana Board of Professional Geoscientists, the requirements for licensure and the purpose for licensure. Since we are licensing geoscientists in Louisiana it seemed relevant to discuss the meaning and application of the term “Geoscientist.” While this information may not seem applicable to the broader audience of a diverse group such as SIPES, it helps illustrate at least one perspective of the value of understanding ethical behavior.

For most of my professional career ethics was something we did, not because it was required, but because it was the right thing to do. Until I became involved with the Louisiana Board, it never occurred to me that ethical behavior might not be the same, whether in principle or practice, for everyone in every circumstance. Now, having a license and being required to participate in ethics continuing education, I have attended numerous ethics presentations. Each of these presentations has provided me with other perspectives of the topic. I have attempted to integrate and expand on some of these perspectives.

As a final summation, I include a brief discussion of ten factors suggested as an acceptable “Code of Behavior” applicable not only to the practice of geoscience, but for most human interactions. Hopefully, you will agree with me that this is ethical.

Bill Finley went to college on the GI Bill and finished his course work with a B.S. degree in geology in 1974, and an M.S. degree in geology in 1975 from the University of Southwestern Louisiana (now ULL).

He started with Gulf Oil Corp. in New Orleans in 1975. Accepting a position with Forest Oil Corp. in Lafayette in 1979, he worked on development projects and large regional studies in south Louisiana. Becoming a free agent in 1990, Bill began to seek his fortune as an independent, contracting his first consulting job with his previous employer, Forest Oil. As an independent, Bill has worked extensively with computer applications for geologic mapping and seismic interpretation. He joined Rozel, LLC in 1996 as a partner generating prospects and selling deals. Bill left Rozel and opened an office in the Oil Center as Aquila, LLC in 2013.

Bill was appointed to the Louisiana Board of Professional Geoscientists as a charter member in 2013, has been involved in writing the LBOPG Rules, and currently serves as the LBOPG Chairman.

There is no fee to attend this course; it is presented to help meeting attendees meet ethics course requirements. Please indicate on the registration form if you will attend this talk so we can have enough seating for everyone. Certificates of completion will be prepared for attendees and distributed at the meeting.
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Tuesday, June 27

Geology & Geophysics

8:30-9:00 a.m. — Bob Hardage — Bureau of Economic Geology
‘Double the Value of Your P-Source Seismic Data’

9:00-9:30 a.m. — Tim Rynott — Ridge Resources, LLC
‘Evolution and Economic Implications for Upper Cretaceous Sandstones: A New Example from the Inboard Gulf of Mexico’

9:30-10:00 a.m. — Brad Bacon — PDC Energy, Inc.
‘Employing Multiple Sources of Data to Optimize Field Development’
(co-author Mark Graeve)

10:00-10:15 a.m. — Break

10:15-10:45 a.m. — Rob Yorke — Advanced Geophysical Technology, Inc.
‘Value of Depth Imaging Onshore — Better than Time. Period’

10:45-11:15 a.m. — Randy Bissell — Headington Energy Partners, LLC
‘Evolving Models for Eocene Deepwater Channel Complexes and Fan Systems, Scotland District, Barbados’

Business Applications

1:30-2:00 p.m. — Scott Taylor — Branscomb PC — Shareholder
‘Leases, Operating Agreements and Letters of Intent’

2:00-2:30 p.m. — Bill Fairhurst — Riverford Exploration, LLC
‘Developing Creative, Critical & Strategic Thinking for Natural & Social Sciences’

2:30-3:00 p.m. — Jory Pacht, #3054 — Altair Resources
‘Zero to $50 Million in One Year: How to Start Up a Private Equity Energy Company’

3:00-3:15 p.m. — Break

3:15-4:15 p.m. — Bill Finley, #2167 — Aquila, LLC
Ethics Course — ‘Louisiana Board of Professional Geoscientists and Ethical Behavior’

SIPES Discovery Room — Open from 4:15 - 5:15 p.m.

Wednesday, June 28

Field Discovery

8:30-9:00 a.m. — Tony Hauglum, #2807 — Riviera Exploration, LLC/ Riviera Production Company, Ltd.
‘Whitsett South Eagle Ford Project’
9:00-9:30 a.m. — Bill Fairhurst — Riverford Exploration, LLC
‘Stealth’ Exploration and Serendipitous Exploration for the Texas Woodford (≈ Barnett), Permian Basin

9:30-10:00 a.m. — Frank Cornish, #3128 — Imagine Resources, LLC
‘Hydrocarbon Traps Associated with Upper Wilcox Canyons and Seismic Response, Mid-Gulf Coast, Texas’
(co-author Louis Lambiotte)

10:00-10:15 a.m. — Break

10:15-11:45 a.m. — Steve Sonnenberg, #2158 — Colorado School of Mines
- ‘The Niobrara Petroleum System, a Major Tight Resource Play in the Rocky Mountain Region’
- ‘Insights into Niobrara Stratigraphic Architecture and Diagenesis, Wattenberg Field, Denver Basin, Colorado’
  and
- “Glenwood Canyon - Field Trip Overview”

SIPES Discovery Room — Open from 1:30 - 5:00 p.m.

Speakers and schedule are subject to change. Please see www.sipes.org for updates.

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Corpus Christi, Texas
361-884-1811
thauglum@swbell.net
James B. Bennett and C. Randall Schott

Support the 2017 SIPES Convention and hope everyone has a great time in Vail!
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 a delicious dinner at about 7:15 p.m.

There will also be an awards ceremony to recognize retiring national directors. The SIPES Outstanding Service Award will be presented to Marc D. Maddox, #2777, who will be honored for his many years of service to both SIPES and the SIPES Foundation.

Winning tickets for the SIPES Foundation’s No Hassle Raffle will also be drawn.

SIPES Awards Banquet

Tuesday, June 27 – 6:30 - 9:00 p.m.

Fee: $95 per person ($120 after 5/25/17)
(This event is not included with your basic registration fee, and must be purchased separately)

Best Wishes for a Successful 54th Annual Meeting & Convention

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Terms: There will be no tour refunds after May 25, 2017. All tours are non-transferable. Advance reservations are recommended. Only a limited number of tour reservations will be available during onsite registration. In the event a tour is cancelled, SIPES will issue you a refund.

Tuesday, June 27

**Vail Area Hike**
9:00 a.m. - 12:00 p.m.
$150.00 per person ($200.00 after 5/25/17)

Enjoy a gentle half-day hike through beautiful scenery on your first day in Vail! Lace up your boots and accompany a local guide who has extensive knowledge of the area’s mountains on this guided hike.

*Tour includes guide, round-trip transportation from the hotel, water, snacks, taxes and gratuity.*

**Jeep Tour**
9:00 a.m. - 1:00 p.m.
$200.00 per person ($250.00 after 5/25/17)

Explore the Colorado High Country by jeep on this exciting tour. You can take in spectacular vistas, view wildflowers and snow-capped peaks and observe native wildlife of the area’s national forests. Your expert guide will work with the group on the day of your trip to determine the best location for this adventure. This selection is based on trail conditions, weather and the group participants.

*Tour includes round-trip transportation from the hotel, guide, land-use fees, snacks, water, and gratuities.*

**Horseback Riding Adventure**
10:00 a.m. - 12:00 p.m.
$175.00 per person ($225.00 after 5/25/17)

This is a unique opportunity to experience the true beauty of the Sawatch and Gore Mountain Ranges on horseback. Saddle up for a 1.5 hour private ride through beautiful meadows and forests of evergreens and aspens.

*Tour includes professional wrangler, all necessary equipment, round-trip transportation from the hotel, taxes and gratuities.*

**Flower Market Class**
10:00 a.m. - 12:00 p.m.
$125.00 per person ($175.00 after 5/25/17)

While you adjust to the altitude in Vail, take this opportunity to participate in a class on the technical tricks of flower arranging. You’ll also learn about composition, color and design from a professional florist. You’ll be taught how to create effortless-looking arrangements that have that just-picked-from-the-garden look.

*Course includes private flower class instruction, professional florist instructor, florals, materials, taxes and gratuities.*
Betty Ford Alpine Gardens
1:30 - 4:30 p.m.
$125.00 per person ($175.00 after 5/25/17)

The Betty Ford Alpine Gardens, the world’s highest botanical garden, contains four distinct areas: Alpine Display, Mountain Perennial, Meditation, and Rock Gardens. The facility attracts more than 100,000 visitors annually to see its unique collection of alpine and mountain plants from around the world. They should be in full bloom during the SIPES Convention. You will enjoy a two-hour, docent-led tour of the gardens, named in honor of former First Lady Betty Ford, and her many contributions to the Vail Valley.

Tour includes a donation to the gardens, a docent-led guided tour of the gardens, round-trip transportation from the hotel, and taxes.

Brewery Tour
1:30 - 4:30 p.m.
$225.00 per person ($275.00 after 5/25/17)

Colorado is famous for having many micro-breweries throughout the state. There are three major breweries right in the Vail Valley area that you will have a chance to visit. One has an 11% beer that will make sure you have a good time!

This trip includes three brewery tours, three flights of beer at each location, tour and tasting at each brewery, one appetizer per person, round-trip transportation from the hotel.

Mountain Bike Tour
1:30 - 5:30 p.m.
$225.00 per person ($275.00 after 5/25/17)

Maximize your time in the Vail Valley by taking a mountain bike tour with a guide who knows the terrain, trails and roads in the area. This tour will utilize Forest Service roads and single track trails in the White River National Forest surrounding the Vail Valley.

Your ride includes guides, bike rental, round-trip transportation from the hotel, water, snack, taxes and gratuities.

Pastel Painting Class
10:00 - 11:30 a.m.
$100.00 per person ($150.00 after 5/25/17)

Follow along as an instructor guides you through a step by step demonstration of painting with chalk pastels on a pasteboard panel. Finished paintings will be covered with tracing paper to prevent smearing in transportation.

Class includes local artist instructor, all necessary supplies, 9” x 12” canvas, gratuity, and taxes.

Wednesday, June 28
Hike & Click
10:00 a.m. - 12:00 p.m.
$175.00 per person ($225.00 after 5/25/17)

This is an opportunity to combine exercise and art. While you enjoy the beautiful outdoors, you can learn from a professional photographer about how to find that one perfect shot! You can capture your amazing trip on camera and, also have a little workout.

Event includes photographic instructor, all materials and tools, gratuity and taxes.

Vail Food Tour
12:00 - 3:00 p.m.
$150.00 per person ($200.00 after 5/25/17)

This three-hour walking tour combines eating delicious gourmet food and learning about Vail's rich history. The tour will visit specially selected restaurants and food shops that best represent the culture and pride of the Vail area. While walking and enjoying a progressive lunch, you'll hear stories about the past, present and future of this world-class destination resort. There will be enough food for a moderate lunch, as well as one alcoholic beverage.

Food tour includes all food tastings, alcohol, guided historical walk, taxes, and gratuity.

Upper Colorado Float Trip
12:30 - 5:30 p.m.
$225.00 per person ($275.00 after 5/25/17)

The Vail Valley is a rafter's wonderland throughout the summer. Rivers are relatively gentle, beginning with Class II rapids and running up to Class V. The SIPES Group will enjoy an afternoon trip in Class I-II rapids. The trip location is subject to change based on water levels.

Float trip includes professional rafting guide, round-trip transportation from the hotel, all necessary equipment, life jackets, water, taxes and gratuities.

Fly-Fishing Tour
12:30 - 5:30 p.m.
$325.00 per person ($375.00 after 5/25/17)

Fly-fishing wade trips are perfect for the fishing enthusiast. Many of the bountiful rivers and streams of the region that are designated for fishing have the trophy class Gold Medal, making them catch and release only. They contain brook, brown, cutthroat and rainbow trout. You can also practice your technique with a certified guide. There will be one guide provided for every three participants.

Fishing tour includes certified guide, round-trip transportation from the hotel, all necessary equipment, fishing license, guide gratuities and taxes.

In order to sign up for these tours, you must be a registered meeting attendee.
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Don’t miss Dr. Hardage’s tech talk on a new breakthrough seismic imaging technology that makes Shear Wave Processing both more affordable and more accessible to oil & gas producers of all sizes.

Multicomponent Seismic Imaging & Interpretation, the processing of both P-wave and shear-wave data together, has long been the future promise to reduce drilling risk and increase the economic success rates for the industry. Combining this data provides greater fault and fracture information, subtle fault detection, stress orientation, fracture intensity, rock lithology and mechanical properties, fluid detection, and more.

However, this promise has not been realized by everyone due to the high costs of multicomponent’s specialized seismic acquisition needs: 3-component geophones, specialized shear wave sources, and complex survey planning and recording.

Recent discoveries at Dr. Hardage’s BEG lab at UT have not only found that there are significantly strong shear waves generated by traditional P-wave sources (including dynamite), but there is also a long overlooked shear wave image SV-P hidden in the latent noise of P-wave recordings on single-component (1C) geophones. This breakthrough concept now means that Legacy P-wave seismic data can be reprocessed to obtain all the multicomponent benefits to reservoir interpretation without the high costs of a new field acquisition. This also means that Multicomponent seismic data can be obtained in the most challenging landscapes - dense timber, swamps, and other remote environments with 1C geophones and shot-hole explosives.

Dr. Hardage and The University of Texas are part owners in VertiShear, LLC a company formed to patent and commercialize the processing technology involved with this new technique. Please visit the website, or contact VertiShear to obtain more information. Make sure you add multicomponent seismic imaging and interpretation to your next exploration plans!
Geology of the Vail to Glenwood Springs Area, Northwest Colorado

Led by Steve Sonnenberg, #2158 — Colorado School of Mines

This one-day field trip will examine geologic outcrops from Vail to Glenwood Springs. The trip starts and ends in Vail, and goes along the I-70 corridor through Paleozoic and Mesozoic strata on the way to Glenwood Springs. The trip goes through the famous Glenwood Canyon area. The canyon is famous for its scenic beauty, road construction, and geology. Road construction through the canyon began in 1980 and was completed in 1992. The road was constructed into a fragile canyon environment leaving as much of the flora, fauna, and geology intact as possible. Total cost of the road project was estimated to be $490 million. Precambrian through Mississippian rocks are exposed in the canyon.

Some of the geologic items of interest include the following:
- Paleozoic and Mesozoic stratigraphy of northwest Colorado
- Tectonism (Precambrian, Ancestral Rockies, Laramide events)
- Cenozoic volcanism
- The Eagle Valley evaporite and salt-tectonism and sink holes
- Economic geology of northwest Colorado (mining and petroleum)
- Modern landslides, debris flows, rockfalls

Participants should be prepared for Colorado weather (bring layers of clothing just in case), along with hiking shoes, sunglasses, hats, and sunscreen.

Tour includes round-trip bus transportation, boxed lunch, a guidebook, bottled water, taxes and gratuities.
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- Robert B. Ferguson — San Juan Capistrano, CA
- Donald C. Gifford — Dallas, TX
- William T. Goff III — Littleton, CO
- Albert R. Hensley — Rockwall, TX
- William F. Howell — Houston, TX
- John D. Kullman — Midland, TX
- Gregg A. McDonald — Oklahoma City, OK
- John H. Newberry — Austin, TX
- R. Leo Newport — Dallas, TX
- Robert B. Owen — Corpus Christi, TX
- Larry J. Lairden — Bellaire, TX
- John M. Rakowski — Florissant, CO
- David L. Read — Highlands Ranch, CO
- Phillip Salvador — Conroe, TX
- Daniel L. Smith — Houston, TX
- Stephen M. Smith — Houston, TX
- Stephen A. Sonnenberg — Golden, CO
- John R. Stephens — Dallas, TX
- Jerry S. Stokes — Fort Worth, TX
- C. Al Taylor, Jr. — Reston, VA
- James Travillo — Oxford, MS
- Scott A. Wainwright — Metairie, LA
- William G. Watson — Midland, TX
- Mark A. Worthey — McKinney, TX
- James M. Zatkiewicz — Metairie, LA
- Garnet W. Brock — Midland, TX
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- Mark A. Worthey — McKinney, TX
- James M. Zatkiewicz — Metairie, LA

**Investor – $100**
- Robert W. Anderson — Houston, TX
- Donald I. Andrews — Metairie, LA
- Dawn S. Bissell — Corpus Christi, TX
- Foy W. Boyd, Jr. — Midland, TX
- Marlan W. Downey — Dallas, TX
- J. Frank Fuller — Dallas, TX
- Clement E. George — Midland, TX
- David N. Grimes — Midland, TX
- W. Kenneth Hall — Fort Worth, TX
- Henry R. Hamman — Houston, TX
- Arthur H. Johnson — Kenner, LA
- Garnet W. Brock — Midland, TX
- Leo C. Carr — Midland, TX
- Duncan D. Dubroff — Houston, TX
- Robert B. Ferguson — San Juan Capistrano, CA
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- William G. Watson — Midland, TX
- Mark A. Worthey — McKinney, TX
- James M. Zatkiewicz — Metairie, LA

**Scout – $50**
- Martin M. Cassidy — Cypress, TX
- Jacob D. Eisel — Boulder, CO
- Peter A. Emmet — Cypress, TX
- Leonard S. Fowler — Richardson, TX
- William J. Furlong — New Orleans, LA
- Monty J. Gist — Midland, TX
- Eduardo Gonzalez — Carrollton, TX
- James M. Hancock, Jr. — Meadows Place, TX
- James B. Jackson — Oklahoma City, OK
- Bill Layton — San Antonio, TX
- Nina C. Lian — Houston, TX
- Laurence S. Melzer, Jr. — Midland, TX
- Stanley L. Perkins — San Antonio, TX
- Jack J. Richard — Parker, CO
- Hector F. San-Martin — Katy, TX
- Autry C. Stephens — Midland, TX
- Tony R. Stuart — Hattiesburg, MS
- Richard W. Thompson, Jr. — Plano, TX
- Mitchell F. Veh, Jr. — Bellaire, TX
- Bonnie R. Wise — San Antonio, TX
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### Registrant Information

<table>
<thead>
<tr>
<th>Name __________________________</th>
<th>SIPES No. _____</th>
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<tr>
<td>Nickname for Badge ______________</td>
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<tr>
<td>SIPES Chapter Affiliation ________</td>
<td></td>
</tr>
<tr>
<td>Spouse/Guest Name ________________</td>
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<tr>
<td>Mailing Address __________________</td>
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<tr>
<td>City __________ State ______ Zip ______</td>
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<tr>
<td>Is this: ☐ Office Address ☐ Home Address</td>
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<tr>
<td>Daytime Phone Number ____________ Fax Number __________________</td>
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<tr>
<td>E-mail __________________________</td>
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### Payment Information

<table>
<thead>
<tr>
<th>Total Amount Due $ _____</th>
</tr>
</thead>
</table>

Please Check One:

- ☐ Check Enclosed
- ☐ MasterCard
- ☐ VISA
- ☐ Discover
- ☐ American Express

Please Make Checks Payable to: SIPES 2017 Convention

<table>
<thead>
<tr>
<th>Credit Card Account Number: __________________________</th>
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<tbody>
<tr>
<td>Expiration Date: ______ Billing Address: ____________</td>
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<tr>
<td>Your name as it appears on the credit card: __________</td>
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<td>X __________________________________________________</td>
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</table>

Authorized Signature

*Please see reverse side for Registration Fees
You will receive confirmation from SIPES by e-mail or mail*

Have you made reservations with the Four Seasons Resort? ☐ Yes ☐ No

*(See Page 5 for Hotel Reservation Information)*

I plan to attend the Tuesday afternoon ethics course: ☐ Yes ☐ No

Please indicate any food allergies: __________________________

Please include this form with your payment! No Refunds After May 25, 2017
### Registration Fees

**Name:** ___________________________________________________________________

#### Registration Category

<table>
<thead>
<tr>
<th>Registration Type</th>
<th>On or before May 25</th>
<th>After May 25</th>
<th>Price Includes</th>
<th>Number</th>
<th>Total Cost</th>
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</thead>
<tbody>
<tr>
<td>SIPES Member/Associated Member*</td>
<td>$325</td>
<td>$375</td>
<td>Icebreaker, Technical Sessions, Discovery Room, Ethics Course, Tuesday luncheon &amp; Coffee/Water</td>
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<tr>
<td>Non-Member</td>
<td>$400</td>
<td>$450</td>
<td>Icebreaker, Technical Sessions, Discovery Room, Ethics Course, Tuesday luncheon &amp; Coffee/Water</td>
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<tr>
<td>Spouse, Widow, or Guest of Member</td>
<td>$175</td>
<td>$225</td>
<td>Icebreaker, Coffee/Water, and ability to register for optional tours &amp; events</td>
<td></td>
<td></td>
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</table>

*SIPES Member rates apply to members of the following societies: AAPG# _________   SEG# _________   SPEE# ________

#### Optional Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates/Times</th>
<th>On or before May 25</th>
<th>After May 25</th>
<th>Number</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIPES Foundation Seminar</td>
<td>Monday, June 26 3:00-5:00 p.m.</td>
<td>Member/Associated Member $65</td>
<td>Member/Associated Member $90</td>
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<td></td>
<td>Non-Member $75</td>
<td>Non-Member $100</td>
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<td></td>
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<td>Spouse/Guest $35</td>
<td>Spouse/Guest $60</td>
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<tr>
<td>All-Convention Luncheon (for registered spouse/guest)</td>
<td>Tuesday, June 27 12:00-1:15 p.m.</td>
<td>$80</td>
<td>$105</td>
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<tr>
<td>Awards Banquet</td>
<td>Tuesday, June 27 6:30-9:00 p.m.</td>
<td>$95</td>
<td>$120</td>
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<tr>
<td>Post-Convention Field Trip</td>
<td>Thursday, June 29 9:00 a.m.-5:00 p.m.</td>
<td>$185</td>
<td>$235</td>
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#### Optional Tours

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates/Times</th>
<th>On or before May 25</th>
<th>After May 25</th>
<th>Number</th>
<th>Total Cost</th>
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<tbody>
<tr>
<td>Vail Area Hike</td>
<td>Tuesday, 9:00 a.m. - 12:00 p.m.</td>
<td>$150</td>
<td>$200</td>
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<td>Jeep Tour</td>
<td>Tuesday, 9:00 a.m. - 1:00 p.m.</td>
<td>$200</td>
<td>$250</td>
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<tr>
<td>Horseback Riding Adventure</td>
<td>Tuesday, 10:00 a.m. - 12:00 p.m.</td>
<td>$175</td>
<td>$225</td>
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<tr>
<td>Flower Market Class</td>
<td>Tuesday, 10:00 a.m. - 12:00 p.m.</td>
<td>$125</td>
<td>$175</td>
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<tr>
<td>Betty Ford Alpine Gardens</td>
<td>Tuesday, 1:30 - 4:30 p.m.</td>
<td>$125</td>
<td>$175</td>
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<td>Brewery Tour</td>
<td>Tuesday, 1:30 - 4:30 p.m.</td>
<td>$225</td>
<td>$275</td>
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<tr>
<td>Mountain Bike Tour</td>
<td>Tuesday, 1:30 - 5:30 p.m.</td>
<td>$225</td>
<td>$275</td>
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<tr>
<td>Pastel Painting Class</td>
<td>Wednesday, 10:00 - 11:30 a.m.</td>
<td>$100</td>
<td>$150</td>
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<td>Hike &amp; Click</td>
<td>Wednesday, 10:00 a.m. - 12:00 p.m.</td>
<td>$175</td>
<td>$225</td>
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<tr>
<td>Vail Food Tour</td>
<td>Wednesday, 12:00 - 3:00 p.m.</td>
<td>$150</td>
<td>$200</td>
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<tr>
<td>Upper Colorado Float Trip</td>
<td>Wednesday, 12:30 - 5:30 p.m.</td>
<td>$225</td>
<td>$275</td>
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<tr>
<td>Fly-Fishing Tour</td>
<td>Wednesday, 12:30 - 5:30 p.m.</td>
<td>$325</td>
<td>$375</td>
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</tbody>
</table>
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