
ACE RESOURCES

A Newsletter for the Association
of Conservation Engineers

JULY 2013

Enhancing Our
Natural Resources

ACE 2013 Conference *welcomes you!*

ACE-2013 SKI COUNTRY

Association of Conservation Engineers

52nd Annual Conference

Breckenridge, Colorado • September 15-19, 2013

These Activity Details are subject to change as arrangements and contacts are finalized. Any changes will be posted to the conference website.

**SUNDAY
SEPTEMBER 15**

Arriving at the DoubleTree by Hilton: as you drive State Highway 9 into Breckenridge from Frisco and Interstate 70, continue to follow Hwy. 9 as you turn right at the roundabout. After the second stop light (Ski Hill Road) take Village Road which turns off to the right. Watch for the DoubleTree on the right as you drive up the hill a short distance, just past Primrose Path (street). The hotel is providing free parking for our conference but it will be valet parking, so pull up in the drop-off drive in front of the hotel.

Check-in and enjoy a famous walnut chocolate chip cookie from the front desk, free room internet, gift shop, 24-hour business center, indoor swimming pool, outdoor hot tubs, and a fully equipped fitness center and sauna. Dine at 9600 Grill for breakfast, lunch or dinner daily. The hotel has a complimentary in-town shuttle or just below the hotel (on Village Road) there is a stop for the FREE RIDE bus.

Oktoberfest in Breck: September 13th – 15th is the 19th Annual weekend festival. Enjoy the great food, beverage, music and more as you walk Main Street.



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President's Message

KEITH PARKER

Dear ACE Members,
I want to thank each of you for choosing me to serve ACE as president over the past year. I also hope you share my excitement about attending our upcoming conference in Breckinridge, Colorado, from September 15-19. I can't think of a more beautiful place to meet for a group of engineers and professionals dedicated to our environment. All we will have to do is look out the window to realize why we picked our particular field of work. I am especially excited to see that we will be in town during the start of the peak time to observe the stunning fall foliage including the yearly gold rush of Aspen leaves. In order to receive discounted pricing for the hotel you *must* reserve your room by August 15th and you *must* register for the conference by August 1st.

Don't forget to fly in a little early so you can attend the largest Oktoberfest in the Rocky Mountains. From the

13-15, Breckinridge transforms into a German town nestled into the Alps with all the German food, music and bier you desire. The 15th is also the last day you can take the Breck-Connect Gondola to the base of Peak 8. If you decide to stay late, we have scheduled a Ski Country Tour on September 19, plus there are many other outdoor related activities available during your stay.

We will open the conference on Monday and then all week we will have various presentations dealing with engineering and the environment. I believe the majority of ACE members chose their profession because they are natural problem solvers with an interest in the great outdoors. I hope you will be able to take what you learn at our conference and apply this to unique problems and opportunities in your state. Also, don't forget that being a part of ACE allows you access to a distinguished network of environmental professionals that you can contact throughout the year.

I want to thank Norval Olson and Veronica Mitchell in our Program Committee for preparing this special event. They, along with others, have volunteered many hours so that we can enjoy our stay in Breckinridge. If you would like to host a conference or serve on one of our many committees please send me a note or let's discuss over a Paulaner Bier at Oktoberfest!

**ACE President
Keith Parker, PE**

Committee Members

2012 - 2013

EXECUTIVE COMMITTEE

Keith Parker, KY
President

Breagan Eicher, IN
President Elect

David Bumann, WY
Past President

Randy Knott, GA
Past President

Howard Thomas, MO
Treasurer

Dale Gunter, AR
Secretary

Terra McParland, IL
At Large

BYLAWS

Greg Mihalevich, MO—Chair
John Hageman, WI—Chair
Gerald Dorscheid, WI

AWARDS

Eric Brooker, KY—Chair
Holly Bentz, OR
John Leszczynski, IN
Alice Anderson, TX

HISTORY

Terry Boyd, AL—Chair
Ed Donahue, WA
Gerald Dorscheid, WI

MEMBERSHIP

Breagan Eicher, IN—Chair
Tom Hohman, IN
Howard Thomas, MO
Randy Knott, GA
Kathy Dillmon, WY
Veronica Mitchell, CO

PROGRAM COMMITTEE

Norval Olson, CO—Chair
Veronica Mitchell, CO

SCHOLARSHIP COMMITTEE

Steve Atkinson, MO—Chair
Champak Patel, IN
Deb Ohlinger, CO

SPECIAL ACTION

None

NEWSLETTER

Lynda Cliburn, IL—Editor/Chair
Gary Wilken, IL
Sue Peterson, IN
Dale Brockamp, IL

OPERATIONS MANUAL

David Bumann, WY—Chair
Kathy Dillmon, WY
Jeff Moody, IN

PAST PRESIDENTS

David Freedman, GA—Chair
John Hagman, WI
Tom Hohman, IN

SPECIAL SPOUSE (PROGRAM)

ADVISORY COMMITTEE

Jean Olson, CO—Chair
Anita O'Keefe, WI
Alice Anderson, TX

2013 SPECIAL COMMITTEES

TIME AND PLACE

Holly Bentz, OR—Co-Chair
Ed Donahue, WA—Co-Chair
Bob Roads, IL
David Bumann, WY

NOMINATING

Gary Wilken, IL—Chair
Ed Donahue, WA
John Hagman, WI



ACE-2013 SKI COUNTRY

Association of Conservation Engineers
TENTATIVE AGENDA
52nd Annual Conference
Breckenridge, Colorado • September 15-19, 2013

The Preliminary Agenda listed below is subject to change as activity, presentation and other details are finalized. Any changes will be posted to the website. Additional details regarding the guest program can be found on the GUEST webpage. Unless otherwise noted all meetings will be held at the hotel.

SUNDAY, SEPTEMBER 15

We encourage early arrivals to enjoy Oktoberfest weekend on your own. Ski mountain activities are available including the free Breck-Connect gondola to the base of Peak 8

- 3:00-5:00 pm Early registration
- 3:00-4:00 Executive Committee Meeting
- 5:00 Breck-Connect Gondola closes for season
- 4:00-5:00 Conference reception

MONDAY, SEPTEMBER 16

- 8:00 am Registration
- 8:30-8:40 am **Opening; Keith Parker, ACE President**
- 8:40-9:15 **Rick Cables, Director, Colorado Parks and Wildlife**
- 9:15-10:00 **Sid Roslund, Director of Technical Services, National Ski Area Association**
- 10:00-10:15 Break (with Exhibitors)
- 10:15-10:45 **Forest Health Presentation**
Rick Cooksey, Director-State and Private Forestry and Tribal Relations, USDA Forest Service
- 10:45-11:00 Conference Photo
- 11:00-11:45 **Breckenridge and Local History**
- 11:45-1:00 pm Visit with Conference Exhibitors (*Note: breaks and lunches will be in the Exhibitor Display room*)
- 12:00-1:00 Lunch
- 1:00-1:30 **20th Annual Carl V. Anderson Conservation Project Awards**
- 1:30-2:10 **Exxon Pegasus Pipeline Rupter—Lake Conway, Faulkner County, Arkansas**
Dale Gunter, Arkansas Game and Fish Commission
- 2:10-2:50 **Rehabilitation of the Dominion Creek Railroad Trestle**
Merv Eriksson and Corrie Kegel, DJ&A Professional Consultants and USDA Forest Service
- 2:50-3:10 Break (with Exhibitors)
- 3:10-3:50 **Enhancing Stream Habitat for Fisheries in Colorado**
Tracy Kittell, Colorado Parks and Wildlife
- 3:50-4:30 Preliminary Business Meeting
- 6:00-7:30 Off-site Dinner at Blue Sky Lodge



Rick Cables,
CPW Director

TUESDAY, SEPTEMBER 17

8:00 am	Registration	ACE-2013 SKI COUNTRY	
8:30-9:05	Swan Ranch Rail Park Bruce Perryman, AVI		
9:05-9:40	The Roman Aqueduct of Nimes, France Greg Mihalevich, Retired—Missouri Department of Conservation		Tentative Agenda cont'd
9:40-10:15	Stabilization of an Infinte Slope Failure Utilizing Hollow Bar Soil Nails with Long-term Monitoring Plan Christopher A. Lundgreen, USDA Forest Service Northern Region		
10:15-10:35	Break (with Exhibitors)		
10:35-11:10	“We’ve got a Dam Problem” - Part II Dale Gunter, Arkansas Game and Fish Commission		
11:10-11:45	USFS Tech and Dev Update on Projects Alex Gavrishoff, USFS Technology & Development		
11:45-1:00 pm	Visit with Conference Exhibitors (Note: breaks and lunches will be in the Exhibitor Display room)		
12:00-1:30	Lunch (on your own)		
1:30-4:30	Local Interest Tour (not finalized) Dinner on your own		

WEDNESDAY, SEPTEMBER 18

8:00 am	Registration
8:30-9:05	Revitalization of the Sioux Ranger District Compound Bruce D. Crockett, USDA Forest Service Northern Region
9:05-9:40	Brown Bridge Dam Removal: Expected and Unexpected Challenges to an EA and Mitigated FONSI William Elzinga, AMEC Environmental and Infrastructure
9:40-10:15	72 MGD State Park Water System Tom Hohman, Retired—Indiana Department of Natural Resources
10:15-10:35	Break (with Exhibitors)
10:35-11:10	TBD Keith Parker, Kentucky Department of Fish and Wildlife
11:10-11:45	Engineers Without Borders Allen McCaw, USDA Forest Service San Juan NF
12:00-1:30 pm	Lunch (on your own)
1:00-1:35	Stabilization and Repairs to a Historic Stone Wharf at Kalaupapa National Historical Park Molokai Island, Hawaii Randy Knott, AMEC Environment and Infrastructure Inc.
1:35-2:10	Alcoa Parking Lot and Filter System Neil B. Myers, Williams Creek Consulting, Inc.
2:10-2:45	Enterprise Infrastructure Asset Management System (EIAMS) Howard Thomas, Missouri Department of Conservation
2:45-3:00	Break
3:00-4:00	Business Meeting and Election of 2013-2014 ACE Officers
6:00-8:00	Formal Banquet and Conference Closing

THURSDAY, SEPTEMBER 19

9:00 am 2:30 pm **Ski Country Tour (Breckenridge and Vail)**

Activities Details cont'd



Conference Hotel Information:

September 15-19, 2013
DoubleTree by Hilton

Standard Hotel Room: \$102 +tax
Mountain View Hotel Room: \$119 +tax
Rooms/rates available up to 3 days before and after the conference based on availability

Reservations: **888-355-6318**
Indicate **Group CODE G34**

or use website:

<http://breckenridge.doubletree.com/>

On left, above "Check Availability", click on "Add special rate codes", enter Group Code "G34", enter the dates, etc. then "Check Availability" (you may need to call in your reservation if arriving early or staying after).

Room block commitment date is **Friday, August 16, 2013**

<http://www.breckenridge.com/>

<http://www.townofbreckenridge.com/>

<http://www.qobreck.com/>

<http://www.breckresorts.com/doubletree-by-hilton>

(Continued from page 1)

Mountain Activities and the ACE Social: September 15 is the last day of the season for Breckenridge Mountain activities on Peak 8. The free Breck-Connect Gondola is a fully-enclosed tram that will take you on a gorgeous ride from the town's North Gondola Parking Lot to Peak 7 base then Peak 8 base. With two stations on the way to Peak 8, don't get off until the end! The ACE Social will be held 4-6 pm at One Ski Hill Place Lodge, which you will see as you get off the gondola at the base of the Peak 8 area. The gondola shuts down for the season at 5pm so there will be shuttles to bring folks back to the DoubleTree. Please let us know if you are fearful of riding the gondola and a shuttle can be arranged to take you to the social location.

Conference opening and speakers: Three speakers will open the conference in the Columbine Ballroom of the DoubleTree Hotel: **Keith Parker** (KY), the 2012-2013 ACE President, will open the 2013 ACE Conference; **Rick Cables**, irector of Colorado Parks and Wildlife, and previously Regional Forester for USDA Forest Service Rocky Mountain Region; and **Sid Roslund**, Director of Technical Services for the National Ski Areas Association.

After additional presentations and a group photo, everyone will gather for lunch at the hotel.

Historic Walking Tour: In the afternoon, the guests/spouse program will include a guided walking tour through Breckenridge's National Historic District with a local expert. Ninety minutes via Breckenridge Heritage Alliance.

Dinner: Attendees and guests will take a short walk to the Blue Sky Lodge to enjoy dinner catered by Food Hedz, a well known local eatery.

Hospitality Room: It is anticipated that a designated hospitality room at the hotel will allow attendees to gather in the evening for social time.

Guests/Spouses: Enjoy free-time in the morning with shopping and sightseeing in downtown Breckenridge, relaxing at the hotel, hiking, biking or ?

Local Interest Tour: This activity for all attendees is still being organized. It may include a mine tour, road refurbishing demonstration, ski area snow making, or ?

Hospitality Room: It is anticipated that a designated hospitality room at the hotel will allow attendees to gather in the evening for social time.

Guests/Spouses: Free-time today is currently planned for the group. Lunch at the hotel noon-1 pm will include all attendees.

Dinner: The semi-formal banquet will be held in the Columbine Ballroom of the DoubleTree 6-8 pm. Awards, presentation of new ACE officers and conference closing will be a part of the banquet activities.

Optional Field Trip: From the hotel at 9 am, the field trip will travel first to Peak 8 for a talk and walk about ski area construction activities and operations. Next we travel over Vail Pass to tour Vail Village and the Ski Museum. Our last stop is the Betty Ford Alpine Gardens where a box lunch and docent tour will complete the trip. We travel back over Vail Pass, by Copper Mountain ski area and through the town of Frisco to arrive back at the hotel in Breckenridge at ±2:30 pm.

**MONDAY
SEPTEMBER 16**

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**WEDNESDAY
SEPTEMBER 18**

**THURSDAY
SEPTEMBER 19**

Tentative Guest/Spouse Agenda

ACE-2013 SKI COUNTRY

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- 6:00-7:30 Off-site Dinner at Blue Sky Lodge

TUESDAY, SEPTEMBER 17

- Morning Free Time—Sightseeing and Shopping in Breckenridge
Lunch on your own
- 1:30-4:30 am Local Interest Tour (with whole group, not finalized)
Dinner on your own



WEDNESDAY, SEPTEMBER 18

- 8:00 am Registration
- Morning Free Time—Explore more Breckenridge and Summit County
- 12:00-1:00 pm Lunch (whole group, at hotel)
- Afternoon Free Time
- 6:00-8:00 Formal Banquet and Conference Closing

THURSDAY, SEPTEMBER 19

- 9:00 am 2:30 pm **Ski Country Tour (Breckenridge and Vail)**

Roxbury Fish Culture Station, Vermont

Reconstruction and Improvements

The Vermont Fish and Wildlife Department's (VTFWD) Roxbury Fish Culture Station is a state hatchery that produces approximately 85,000 catchable size rainbow and brook trout and 300,000 juvenile salmon (fry) annually for stocking Vermont's lakes, rivers and streams. The hatchery was built next to Flint Brook in 1891 and is listed on the National Historic Register of Historic Places.

Over 150 years ago a retaining wall was constructed on Flint Brook that creates an abnormal 90 degree turn in the brook at the bottom of a mountain. The stone retaining wall was used to force the water away from the railroad tracks and a state highway that are located along the Flint Brook. During Tropical Storm Irene on August 28, 2011, flood waters breached the retaining wall, which caused water to flow down the Roxbury valley rather than in the altered stream bed of Flint Brook.

The flood waters damaged homes, State Route 12A, the railroad bed, and Roxbury FCS. The flood waters passed directly through the hatchery and lab facility causing extensive damage. Most of the hatchery buildings sustained minor to moderate damage. However, a portion of private home that had been torn apart and carried downstream, destroyed the hatchery's spring house. The hatchery's five rearing ponds and two raceways and a tank were also completely destroyed due to the brook's new water course. With the destruction of these facilities, the Fish Culture Station rearing processes were considered a complete loss. This was the third time the hatchery had flooded since 1998.

VTFWD hired HDR Engineering to plan the rebuilding of the Roxbury FCS and mitigate the potential for future flooding. HDR visited the site in September of 2011 to assess the storm damage. The design for the facility renovation was completed in March 2013. FEMA is currently reviewing the design and



One of Roxbury Fish Culture Stations' rearing ponds that were completely destroyed due to Flint Brook's new water course thanks to Tropical Storm Irene in 2011.

projected costs to determine the level of funding available for the project. VTFWD is awaiting further direction and plans to bid the project when funding has been determined. A 12-18 month construction period is anticipated.

The reconstruction plan calls for the construction of two rearing unit pavilions designed to be flood tolerant and located on the lower part of the facility where water velocities have historically been slower and less damaging. The pavilions are to be built on a concrete knee wall that would help deflect future flood waters and reduce fish loss and any structural damage. Each would house five 20-foot diameter tanks whose tops would be three feet above ground level to keep flood water that infiltrates the building from entering into tanks. The tanks are

to be constructed with stainless steel sides and concrete bottoms.

Spring, well and river water are all used to supply the hatchery. Influent water will be treated with drum screen filtration to remove solids that could plug pipes and cause disease in fish. Ultraviolet disinfection will remove bacterial and microscope organisms (pathogens) in the water. Finally, oxygen supplementation will be added to increase oxygen levels in water for fish reared at higher densities in tank culture. Effluent treatment includes an effluent drum screen, clarifier and sludge storage tank to handle the accumulated solids. A chemical disinfection pond has also been provided. Pump back capabilities for reuse of a portion of the process water after microscreening has been included.

**Terra McParland
HDR Engineering, Inc.**

ACE Happenings

As with any long standing organization there will events and people which have impacts on us over the course of time and since the last ACE newsletter we have been advised of three major impacts to members of the organization.

Eugene Comoss passed away after only one year in retirement. He was actively involved in the ACE, having hosted the 2006 conference in Erie, PA. Eugene was always willing to undertake anything for the organization and served as president during the 2007-08 cycle. He provided numerous excellent conference papers over the years. I recall two in particular: one about the restoration of a railroad viaduct for a bike trail and the other about the reconstruction of a historic aqueduct on the Erie Canal. He was a golf addict and a staunch Penn State fan. He was always willing to discuss problems associated with football hotel rooms and game tickets. In fact, one of his last presentations dealt with utilizing visitor accommodations at a state parks for Penn

State fans at a reasonable cost.

Roger Manninen, a long time ACE member, passed away in May. After attending his first Conference in Alabama in 1978, he attended many conferences during his working years and after retirement in 2001. He and his wife Lois loved to travel around the country and ACE Conferences provided another opportunity to see another state. He recognized the value of the professional contacts provided by ACE membership. Roger was a Regional Engineer at the Minnesota Department of Natural Resources for 32 years. He was known as a tireless worker, particularly when administering construction contracts and had a reputation for setting grade stakes after dark with a flashlight! His obituary reflected his ambition to provide quality professional engineering services to DNR Resource Managers to enhance the public's opportunity to enjoy its natural resources and recreation opportunities.

Bob Koons - Bob, who joined ACE in 1967, hadn't attended many

conferences recently. He is survived by Janice, his wife of 31 years, also one son and one daughter and 2 grandchildren.

On a happier note we have been advised that **Norval Olson** retired this year from the Colorado Parks and Wildlife. In recent years no one as been more active in the organization or served it better than Norval and his wife Jean. His family attended numerous conferences with Norval. He has served on various committees, presented numerous papers, held various offices within the organization (Secretary 2000-02 and President 2003-04) and sponsored two conferences, one in 1996 in Durango and this year's in Breckenridge. I know we will all wish Norval and Jean well and hope they continue their active participation in the ACE during their retirement.

I wish I could have figured out how to retire at such early ages as Norval, Tom Hohman and John Hagman!

Bob Roads
HDR Engineering, Inc.

ACE RESOURCES

inside...

2013 Conference Agenda
(tentative)

HDR Engineering Inc.
5201 South Sixth Street Road
Springfield, Illinois 62703-5143
217.585.8300