

# ACE RESOURCES

A newsletter for the Association  
of Conservation Engineers

AUGUST 2014

Enhancing our  
Natural Resources

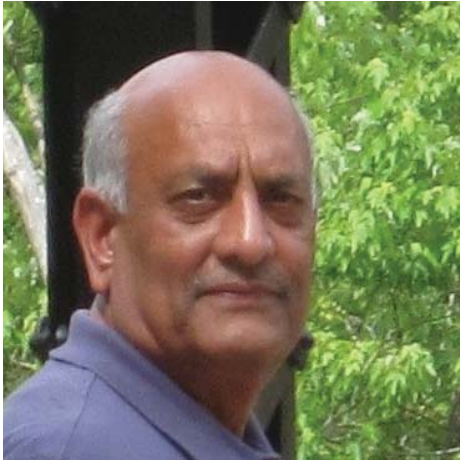
## Congratulations!

**Placer River Trail Bridge** over the Placer River, Spencer Whistle Stop, Girdwood R.D. Chugach N.F., Kenai Peninsula, Alaska is the **21st Annual Carl Anderson Conservation Project Engineer Award of Excellence Winner**. The Award of Honor winner is Salt Lick Creek Stream Restoration and the Award of Merit is Forks Creek Hatchery Modernization. Come to the conference to learn all about these award-winning projects!

2014 Conference  
Agenda - pp 3-5

Projects of  
Interest - pp 8-11

Scholarship  
Deadline  
Extended - pp 6-7



## Champak Patel retires from IN DNR

Champak Patel has joined the ranks of the retired, after 22 years with the Indiana Department of Natural Resources (DNR). Champak originally started with Indiana DNR as a structural engineer in the Civil Engineering section, but soon was promoted to Chief of Construction. Champak also served as the Treasurer of ACE between the years 2008 and 2012. Even though retired, Champak plans to continue attending the ACE conferences. As most long time ACE conference attendees would agree, he finds them to be a great opportunity to sharpen his engineering knowledge and renew old friendships.

## ACE Member William “Buddy” Phillips passes away

William “Buddy” Phillips of Ayden, North Carolina, passed away April 11, 2014. Buddy joined ACE in 1980. He was a lifetime member and was retired. He is survived by his wife, Lena, who said, “We enjoyed going to the different states to the conferences... many thanks.”

## Committee Members

2013 - 2014

### EXECUTIVE COMMITTEE

Breagan Eicher, IN  
President

Joel Krause, MT  
President Elect

Keith Parker, KY  
Past President

David Bumann, WY  
Past President

Howard Thomas, MO  
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Dale Gunter, AR  
Secretary

Terra McParland, IL  
At Large

Eric Brooker, KY  
At Large

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John Hagman, WI - Chair  
Gerald Dorscheid, WI

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Eric Brooker, KY – Chair  
Hans Nielsen, CO  
Terry Boyd, AL  
Alice Anderson, TX

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

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Tom Hohman, IN - Chair  
Randy Knott, GA  
Kathy Dillmon, WY  
Veronica Mitchell, CO  
Natalie Little, UT  
Joel Krause, MT

### Program

Holly Bentz, OR  
Ed Donahue, WA

### Scholarship

Champak Patel, IN – Chair  
David Bumann, WY  
Terra McParland, IL

### Special Action

Tom Hohman, IN – Chair of Ad Hoc  
Committee to investigate online  
membership application and renewal

### Publications/Newsletter

Lynda Cliburn, IL – Editor- Chair  
Gary Wilken, IL  
Norval Olson, CO

### Operations Manual

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

### Past Presidents Committee

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

### Spouse Advisory

Jean Olson, CO  
Abby Eicher, IN



53rd Annual **C O N F E R E N C E**  
**Association of Conservation Engineers**

September 21-25, 2014

Bend, Oregon

**RESTORE,  
RENEW,  
RECREATE**

**MONDAY** September 22

8:00 am	Registration
8:30-8:40 am	Opening - <i>Breagen Eicher, ACE President</i>
8:40-8:45 am	Welcome and Housekeeping - <i>Holly Bentz</i>
8:45 - 9:10 am	Deschutes National Forest - <i>John Allen, Forest Supervisor</i>
9:10-9:30 am	Region 6 Welcome - <i>Jose Lineras</i>
9:30-10:00 am	Bend Parks and Rec - <i>Michele Healy (invited)</i>
10:00-10:20 am	Break
10:20-10:50 am	Suttle Lake Dam Fish Passage - <i>Nate Dachtler</i>
10:50-11:20 am	TBA
11:20-11:45 am	Conference Photo
Noon-1:00 pm	Lunch - Conference Center
1:00-1:30 pm	Rehabilitation of Park Roads - <i>Bo Vandergriff</i>
1:30-2:00 pm	Covered Bridge Load Ratings - <i>James Wacker</i>
2:00-2:30 pm	Forks Creek Hatchery Adult Holding and PA - <i>Jason Hill</i>
2:30-2:45 pm	Break
2:45-3:15 pm	Exhibitors Presentations - 5 minutes each
3:15-4:00 pm	Preliminary Business Meeting   Dinner on Your Own
8:00-10:30 pm	Hospitality Room Open



## TUESDAY September 23

- 8:30-9:00 am Ohio Hatchery - *Dale Brockamp*
- 9:00-9:30 am Upper Arkansas River NRD Aquatic Habitat Enhancement - *Tracy Kittle*
- 9:30-10:00 am Place River Trail Bridge - *Eleanor Orman, Rod Dell'Andrea*
- 10:00-10:15 am Break
- 10:15-10:45 am Sustainable Operations and Climate Change in the Forest Services - *Natalie Little*
- 10:45-11:15 am Design Decision Making Using the 9-Step Planning Process for Stream Restoration  
- *Nathaniel Todea and Jason Roper*
- 11:15-11:45 am Carl Anderson Awards
- 11:45 am-1:00 pm Lunch
- 1:30-4:30 pm Field Trip with the Conference (bus provided)  
LEED Gold Office, Colorado Dam Safe Passage, Deschutes Brewery
- 5:30-7:30 pm Dinner at Aspen Hall
- 7:30 pm Return by bus to Mt. Bachelor Village Resort
- 8:00-10:00 pm Hospitality Room Open

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## Thursday's Excursion

The Thursday event begins at 9 a.m. with the group leaving Mt. Bachelor Village Resort and traveling to Lava Lands Visitor Center. Arriving at 9:30, the group will tour the visitor center on their own. At 10:30 am the group will gather and walk to the Wildlife Passage Project.

The group will leave for Lava River Caves at 11 a.m. for a picnic lunch at 11:15 a.m.

The group will leave at 12:15 pm for the High Desert Museum. After touring the museum on their own, the group will depart at 2 p.m. to return to the Mt. Bachelor Village Resort.

## Guest Agenda

The Guest Agenda for this year's conference includes a culinary tour with Well Traveled Fork on Monday afternoon; and the Bend Art Safari on Wednesday. There is also plenty of time to just explore Bend.



## WEDNESDAY September 24

- 8:30-9:00 am Maloney Creek Stream Restoration and Trail Project - *Randy Knott*
- 9:00-9:30 am Dam 3 Completion - *Dale Gunter*
- 9:30-10:00 am Whychuse Creek - *Marc Thalacker*
- 10:00-10:15 am Break
- 10:15-10:45 am Tumbling Creek AOP: Bottomless Arches and SHPO - *Jim Kozik*
- 10:00-11:15 am Forest Service Dam Safety Products - *James Gronier*
- 11:15-11:45 am West Salt Creek Landslide - *Ben Stratton*
- 11:45 am-1:00 pm Lunch
- 1:00-1:30 pm Gird Creek Wall: a Geosynthetic Reinforced Soil (GRS) Wall - *Chud Lundgren*
- 1:30-2:00 pm Restoring Wildlife Movement across Highways through Public Lands - *Sandra Jacobson*
- 2:00-2:30 pm Corps of Engineers
- 2:30-2:45 pm Break
- 2:45-3:15 pm I-90 Development and Partnerships
- 3:15-4:30 pm Business Meeting
- 5:30-6:00 pm No Host Bar
- 6:00 pm Closing Banquet

More conference information is available on the ACE website:  
<http://conservationengineers.org>

# James (Jim) Schalk Memorial Association of Conservation Engineers Scholarship

## *Application Requirements*

1. The purpose of this program is to promote the Association of Conservation Engineers (ACE) and the continued study and learning required for the conservation of our natural and renewable resources in the areas of preservation and recreation. The Association of Conservation Engineers (ACE) is an international organization of engineers and allied personnel employed by conservation and natural resource agencies and consultants with specialized interests in the area of fish, wildlife, parks, forests and related conservation/recreation fields. Additional information about ACE can be found on our web site at [www.conservationengineers.org](http://www.conservationengineers.org).
2. The selection of scholarship nominees shall be according to the following eligibility guidelines:
  - a. The selection shall be restricted to junior and senior class students enrolled in an accredited course of college study directed toward a degree in engineering, any of the natural sciences, ecology, or agriculture.
  - b. Students shall carry a full program and be enrolled as a full time student.
  - c. The student shall submit a technical paper of 1250 words maximum but not less than 750 words written in essay form. The paper's topic shall relate to the conservation and/or preservation of natural, cultural or renewable resources.
  - d. A recommendation letter, on university letterhead, from one of the student's instructors shall accompany the submitted technical paper stating the student's qualifications for this scholarship.
3. The monetary value of this scholarship shall be \$1,500.00 (one thousand five hundred dollars) paid directly to the recipient. Presentation of the award shall be mailed to the recipient after the ACE annual conference. It is the discretion of the recipient on how the award shall be used.

# James (Jim) Schalk Memorial Association of Conservation Engineers Scholar- ship

2014 Application Form

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Major: \_\_\_\_\_

Class (circle one): Junior / Senior      Anticipated Graduation Date: \_\_\_\_\_

Name of School: \_\_\_\_\_

Address of School: \_\_\_\_\_

Send completed Application Form, instructor's letter of recommendation, and written essay to:

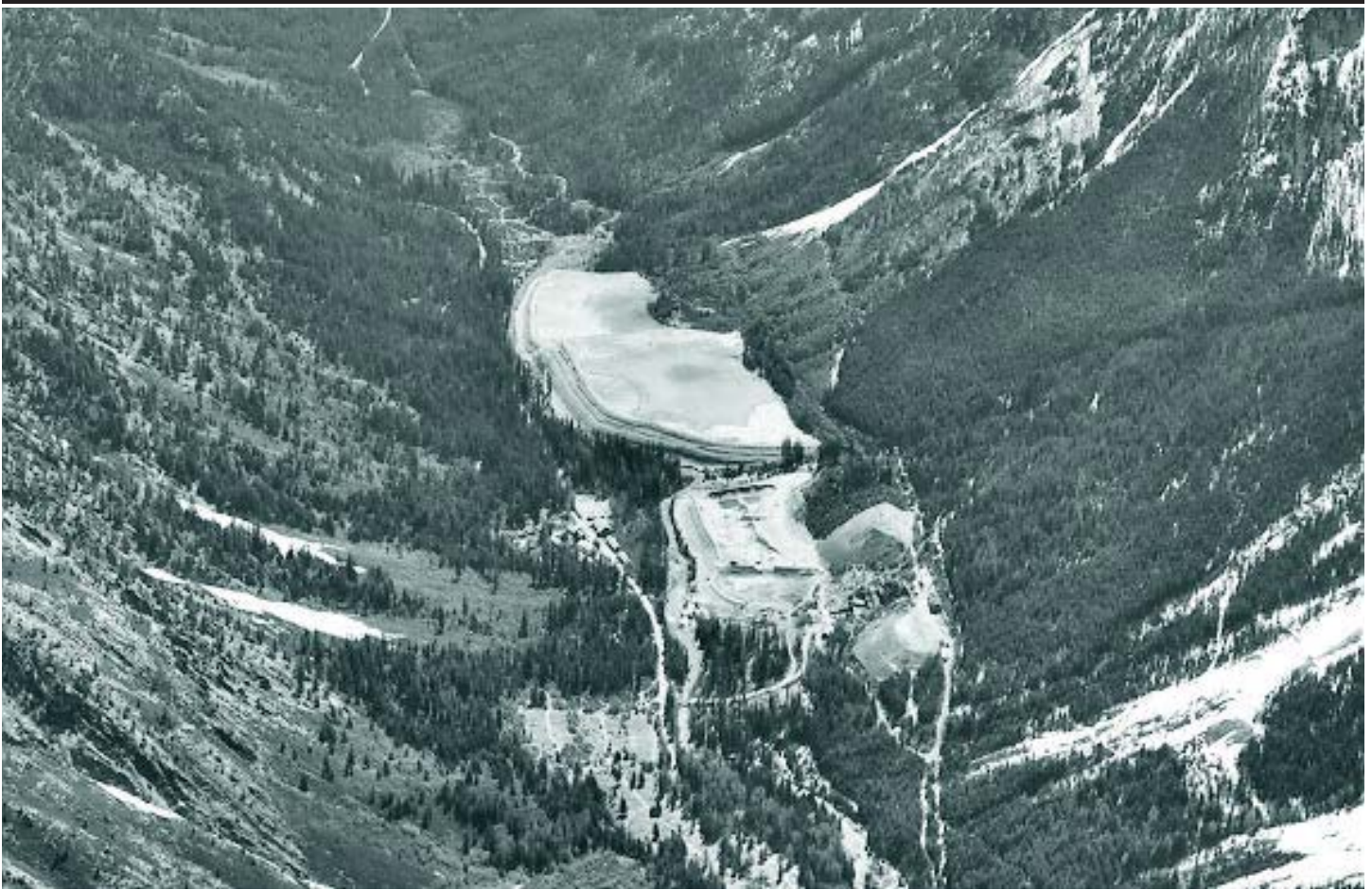
Breagan P. Eicher, P.E., CFM  
Civil Engineer  
Lawson-Fisher Associates P.C.  
525 West Washington Ave.  
South Bend, IN 46601  
**or email to:** [beicher@lawson-fisher.com](mailto:beicher@lawson-fisher.com)

**and also e-mail to:** Champak Patel, P.E. at [cpatelbg@yahoo.com](mailto:cpatelbg@yahoo.com)

**Applications must be received no later than August 29, 2014**

Winner will be notified by September 15, 2014.





## Washington State News: Holden Mine Site History and Clean Up

Holden Mine is an inactive underground mine located along Railroad Creek, in the Okanogan-Wenatchee National Forest, about 50 miles north of the town of Chelan and 10 miles west of Lake Chelan. Between 1938 and 1957, the Howe Sound Mining Company mined copper, zinc, gold and silver from the Holden Mine. It was one of the largest copper mines in the United States at the time producing \$66 million from copper, zinc, silver, and gold today worth over \$1 billion.

300,000 cubic yards of waste rock and about 8.5 million tons of mine tailings covering about 90 acres were left at the site. Since mining

operations ceased, the mine partially filled with water. This water becomes contaminated as acid mine drainage that drains into Railroad Creek at concentrations toxic to aquatic life.

The most significant Site features, with respect to releases or threatened releases of hazardous substances, include: 57 miles of underground mine workings; three tailings piles, which contain approximately 8.5 million tons of tailings and are up to 120 feet high; two waste rock piles, which contain approximately 0.25 million tons of waste rock. A mill site located between the tailings piles was demolished in 2013.

The remedial action at the Site will eliminate the imminent and substantial for the greatest good endangerment to the water quality and aquatic habitat of Railroad Creek by: Capturing and treating water contaminated with hazardous substances including copper, cadmium, lead, zinc, iron compounds, and aluminum compounds; and consolidating and capping tailings, waste rock, and impacted soil with hazardous substances including aluminum compounds, arsenic, cadmium, copper, and lead.

Rio Tinto, a global mining company,

*Continued on page 10: Holden*



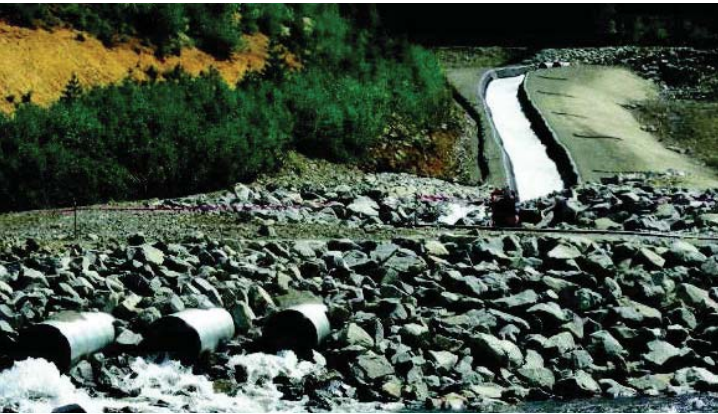


Photo at left on page 9: 1975 aerial photo of the Holden Mine site including tailings, waste rock piles, and Railroad Creek.

Photos on page 10: Top: Tailings and sawdust placement on east tailings pile 3. Middle: East Copper Creek diversion entering Railroad Creek. Bottom: Compacting the north-west corner of tailings pile 1 following sawdust pile removal.



# Flooding causes more FEMA projects; plus member news

Since last year's conference we have had three deaths to ACE members or spouses of members.

Clif Dixon (60) passed away on Tuesday, September 17, 2013, after a 10 month long battle with cancer. Clif was a member of ACE, who had attended a few conferences and made presentations. He had been a landscape architect for the Alabama Department of Conservation & Natural Resources (ADCNR) since 1997. Clif retired from the Engineering Section in March of 2013. Clif was very active in his church and will be missed by his wife, daughters and grandchild and all those who knew him.

Julia Boozer Reed (90) passed away on Thursday, October 3, 2013, after a battle with cancer; Julia was the spouse of one of the original members of ACE, (Clurin Reed the 1976 Baker Award winner and member #23). Julia and Clurin were fixtures at many ACE conferences from 1962 until Clurin's death in 2004. They hosted the 1966 and the 1980 ACE conference in Alabama. Julia was a great story teller who could keep the entire group laughing; she was a great southern lady who will be missed by all who knew her.

Jessie Mae Temple (83) passed away July 4, 2014, after a battle with cancer and kidney problems, she had been on dialysis for over a year. Jessie was the

spouse of a long time ACE member (Frank Temple) who designed and drew the covers to many proceedings for over 20 years. Frank was the 2009 Baker Award recipient and his membership number is 220L. Frank and Jessie Mae attended numerous ACE conferences until their health declined. She will truly be missed by those who knew her.

We have been really busy in Alabama, as always. We had over 20 inches of rain in Baldwin County on April 28 and 29, which caused massive flood, which damaged numerous docks and other structures on numerous waterways. This caused debris from the damaged structures and trees to be scattered along these waterways, a new FEMA debris project, even without a hurricane. Again I am back doing FEMA stuff again, as usual it takes forever, and we have been waiting over to 2 months to get environmental clearances to start the cleanup work. Also still doing close out and paper work for the April 27, 2011 tornadoes damages at Guntersville State Park. Look forward to coming Bend Oregon this fall. I know the conference committee is doing an excellent job, but without your attendance it cannot be a success, please make plans to attend.

**Terry Boyd**  
**Chief Engineer**

*Continued on page 8: Holden*

is managing the cleanup on behalf of Intalco and is paying for the entire cleanup. Rio Tinto never owned or operated the Holden Mine; but, through a series of company acquisitions and legal transactions Rio Tinto has an arrangement to manage this cleanup.

The USDA Forest Service, in cooperation with the United States Environmental Protection Agency and the Washington State Department of Ecology are providing cleanup oversight under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and state's Model Toxics Control Act (MTCA).

TODAY: The major components of the Holden Mine cleanup effort will take place over the next several years. Phase One of implementation involves heavy construction during the 2013-15 summer seasons. Cleanup work can only occur in the snow free season, generally May through October.

TODAY: Holden Village Mine Remediation: <http://www.holdenvillage.org/mine-remediation/>

TODAY: Holden Village is a Lutheran ministry, nestled in a forested valley at 3,200 feet in the North Cascade Mountains of Washington State. The Village welcomes people of all ages, races, faiths and backgrounds, offering modest yet comfortable amenities in a wilderness setting. <http://www.holdenvillage.org/about-us/his/>



# Arkansas News: Jim Hinkle Spring River Dam #3 Progress

At the ACE Conference last year, Dale Gunter of Arkansas, presented a paper on the Jim Hinkle Spring River Dam project. Here are a few photos of the soon to be completed project.

Rock fill base of dam was pressure grouted before mass concrete work was placed. Mass Concrete placement on June 17. Mass Concrete placement complete on July 23. Final concrete pour was placed on July 21. Removal of 18 inch of dam crest, placement of reinforcing steel for new dam crest and forming for new crest all in progress simultaneously on July 23. Obermeyer water control gate system will be added to new dam crest.

The Contractor is ASI Constructors, Inc. of Pueblo West, Colorado. The Project Cost is \$3,150,000. Construction started March 17, 2014 and the projected completion date is October 01, 2014.





# Like us on Facebook!

That's right - ACE is now on Facebook! Not only can information about ACE on be found on ACE's website: <http://conservationengineers.org>, now information about ACE can be found on Facebook: <https://www.facebook.com/conservationengineers>.

We are reaching more and more members electronically! Please keep your email address current with ACE to always receive the newsletter and other ACE news and notices.

This news letter contains some of the upcoming conference information but all the details are available on the ACE website including hotel information. All the planning for this year's conference has come together to create another great event that I hope you are planning to attend.

**Lynda Cliburn**  
Editor

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ACE Association of Conservation Engineers Engineering/Construction

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- An International professional organization of engineers and others in related disciplines who work in the field of natural resource protection.
- <http://conservationengineers.org/>

PHOTOS >

Association of Conservation Engineers May 13

Remember to invite all your engineering friends to like our page!

Like · Comment 1

Association of Conservation Engineers shared a link. May 2

Nominate your favorite recent project for an award! More information at: [http://conservationengineers.org/downloads/Newsletters/ACEMar\\_14.pdf](http://conservationengineers.org/downloads/Newsletters/ACEMar_14.pdf) Deadline is May 16th!

[conservationengineers.org](http://conservationengineers.org)  
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**ACE RESOURCES**  
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