

# ACE RESOURCES

A newsletter for the Association  
of Conservation Engineers

MARCH 2014

Enhancing our  
Natural Resources

## Restore, Renew, Recreate!

### Make Plans Now to Attend 2014 ACE Conference in Bend, Oregon September 21-25

Join us for our 2014 conference 'Restore, Renew, Recreate' in beautiful Bend, Oregon. Come and hear experience engineers talk about projects involving stream restoration, roads, bridges, sustainability and more, while earning those valuable professional development hours. Tour a certified LEED Gold building, visit a dam removal/stream restoration/whitewater channel project in progress, and learn about sustainable practices being used as we tour the EPA recognized Deschutes brewing company. Lastly don't forget the invaluable networking as you meet with others engineers working in the natural resource fields.

On Thursday enjoy a visit to the Lava Lands Visitor Center, the Lava River Caves and the High Desert Museum.

Bend is located in the heart of central Oregon and is well known for its access to both winter and summer recreation opportunities. Come a few days early or plan a few days after the conference and take a whitewater rafting trip down the Deschutes river, visit the Newberry National Volcanic Monument or explore the trails around Smith Rocks.

If you are flying, Redmond is the closest airport and shuttle service can be purchased to the conference facility. Or if you would like to see more of Oregon, fly into Portland and with a rental car it is just a three hour drive with lots to see along the way.

Look for registration opportunities on the web starting May 1. We look forward to seeing you in September.

## Call for Papers

### Guidelines for submitting abstracts

All abstracts must be postmarked by  
May 16, 2014.

Abstracts are not required, but if  
submitted shall be a maximum of  
one-page, single-spaced and be  
submitted prior to the established  
deadline.

Full papers will be required for  
publication of the conference  
proceedings: PowerPoint  
presentations are acceptable.

Biological sketches of all authors  
shall be a maximum of one page.

Papers shall be on portable drive or  
on CD, in Word format with hard  
copy. Papers and biological sketches  
are due at the conference.

Further instructions for speaker  
presentation will be provided upon  
notification of a paper's acceptance.

Submittal form is on Page 9.

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# 2014 Conference and Scholarship is focus of this newsletter

Spring is coming - just not soon enough after all the brutal winter weather. Through the cold, snowy, dark days of winter, the planning for the 2014 ACE Conference has continued. The conference is always a great opportunity to network, share ideas, and build friendships, so make plans to attend! This edition of the newsletter contains all the information needed to submit a project for award consideration (see pages 3-8). Award winners will be featured at the Conference. Please take some time to put together an entry for one of your projects. This is a great way to promote the work you do, to say thanks to the team you work with, and to highlight a great project! This issue

also contains the application information to submit an abstract for consideration of presentation at the Conference (see page 9). This is another great way to promote the work you do. The James Schalk Scholarship information and application is included (see pages 10-11). Please extend the opportunity to a young person

interested in conservation engineering. One last thing, support the membership drive! Invite someone to join and become active in ACE!

**Lynda Cliburn**

Reminder to keep your email address current with ACE to always receive the newsletter and other ACE news and notices.

## Editor's Message

LYNDA CLIBURN

## Committee Members

2013 - 2014

### EXECUTIVE COMMITTEE

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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

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Eric Brooker, KY  
At Large

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John Hagman, WI - Chair  
Gerald Dorscheid, WI

### Awards

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Hans Nielsen, CO  
Terry Boyd, AL  
Alice Anderson, TX

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Ed Donahue, WA  
Gerald Dorscheid, WI

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Randy Knott, GA  
Kathy Dillmon, WY  
Veronica Mitchell, CO  
Natalie Little, UT  
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Holly Bentz, OR  
Ed Donahue, WA

### Scholarship

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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

## Purpose

The purpose of this design awards competition is to give recognition to those members and/or their departments whose work, as judged by their peers and associates, best exhibits the goals and objectives of The Association of Conservation Engineers.

## Categories

### Project Category A - STUDIES / RESEARCH PROGRAMS

Non-design services including, but not limited to: Pilot/experimental projects; bioengineering; electrical heating; new products and materials; basic research on new technology; fuels and water; properties and uses of fuels; research in natural resources; hazardous waste studies; resource recovery; environmental impact studies; soils and other subsurface geotechnical investigation and evaluation; damage correction; computer services; technical papers. All of the entries in Category A are involved with non-construction document design services.

### Project Category B - CONSERVATION / ENVIRONMENTAL

Energy generation, transmission, distribution, conversion, conservation and storage-mitigation, Dams (water supply, irrigation, flood control, recreational, fisheries management), Drainage systems, Incineration, Mine, Reclamation Parks and Wildlife facilities, Resource recovery, Waste treatment facilities, Water resources and supply, Wetlands treatment.

### Project Category C - SPECIAL PROJECTS

Any project that does not fit into other categories including, but not limited to: Erosion protection and control Recreational-theme parks, zoos, marinas, aquariums, Site development, Structure of buildings, Historical restoration, and Construction projects resulting from unique studies or research of the type in Category A.

## Eligibility

### Entrant:

Any governmental agency or department, or its selected consultant, engaged in the fields of recreation, wildlife preservation, tourism, and/or conservation of the natural environment, which is a member of or has made application for membership in the ACE, is eligible for participation in this awards program.

### Project:

1. The project entered must be the completed work of the governmental agency or department making the submission.
2. Up to two project entries may be submitted by each participant.
3. The project must have been completed within the **24 months** preceding its submittal.

*For use of award chairperson only*

PROJECT REG. NO. \_\_\_\_\_

Received \_\_\_\_\_

## DECLARATION OF INTENT TO SUBMIT FOR ACE CONSERVATION PROJECT ENGINEERING AWARDS

*(This page is due by fax or email postmarked on or before **May 16, 2014**)*

Date submitted: \_\_\_\_\_

*Note: Please furnish all information requested below for each entry. If additional forms are required, copy this format.*

I intend to submit an entry to the Association of Conservation Engineers Design Awards Program in the following category and division designated.

Category (*Check One*)

A. Studies/Research Program \_\_\_\_\_

B. Conservation/Environmental \_\_\_\_\_

C. Special Projects \_\_\_\_\_

Budget Cost of Project: \_\_\_\_\_ Scheduled Completion: \_\_\_\_\_

Actual Cost of Project: \_\_\_\_\_ Actual Completion: \_\_\_\_\_

Name of Submitting Entity: \_\_\_\_\_

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

Contact Name: \_\_\_\_\_ Phone No: (\_\_\_\_\_) \_\_\_\_\_

Fax No: (\_\_\_\_\_) \_\_\_\_\_

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

Name of Project: \_\_\_\_\_

Location: \_\_\_\_\_

Owner's Name: \_\_\_\_\_

*Note: Remember to get Owner's approval for use of project award nomination*

Name of Consultant(s): \_\_\_\_\_

*(if applicable) May be the same as submitting entity*

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

**Note: The submitting entity or the owner of the project must be a member of the ACE organization or must have made application for membership at the time the Declaration of Intent is filed.**

## Entry

Making your submittal for the ACE Conservation Project Engineering Award is a simple two-step process as follows:

**FIRST:** Send your Declaration of Intent to submit by fax, email or mail postmarked no later than Friday, May 16, 2014.

**SECOND:** Prepare your Entry packet. Entries must be postmarked no later than **Friday, June 13, 2014**.

Winners will be notified on or before **August 15, 2014**, to prepare a Project Panel to bring for display and presentation at the ACE 53rd Annual Conference in Bend, Oregon, September 21-25, 2014.

Each entry shall be emailed to the Committee Chairman no later than **Midnight June 13, 2014 (Eastern Time Zone)**. If submittal is larger than 10 MB then the entry can be submitted on a CD to the Committee Chair. The entry shall include:

1. A copy of the ACE Declaration of Intent form as previously submitted.
2. Letter from the agency or owner giving written permission allowing for publication of any feature or innovation found to be of interest to the members of the Association.
3. ACE Data Sheet 1 (attached).
4. ACE Data Sheet 2 (attached).
5. Drawings; up to a maximum of 4 sheets as needed to delineate project.
6. Colored photographs (a maximum of six) may be utilized to complement the written description.

## Project Panel

### To be completed before the 2014 Conference

A project panel will be required of those winning entries receiving an Award of Excellence or an Award of Merit, and is requested, but optional, from the winner of the Award of Honor. The project panels will be on display during the annual conference for viewing by all those in attendance. Project panels will be returned after the conference.

Project panels will be restricted to one 30" x 40" heavy weight crescent or mat board, or two 20" x 30" boards hinged and capable of standing on an easel. Material displayed shall be either B/W or colored photos, printed texts or drawings which best describe the features of the entry. Project panels shall be identified with the name of the submitting department or agency, the name of the project and its location.

### Submit to:

**ACE Committee Chairman—Eric Brooker**  
Kentucky Department of Fish and Wildlife Resources  
#1 Sportsman's Lane  
Frankfort, KY 40601  
Phone: (502) 564-5209  
Fax: (502) 564-3667  
Email: [Eric.brooker@ky.gov](mailto:Eric.brooker@ky.gov)

*Note: The entry fee for the 2014 awards competition has been waived. No entry fee will be required.*

*For use of award chairperson only*

PROJECT REG. NO. \_\_\_\_\_

Received \_\_\_\_\_

## ACE 2014 DESIGN AWARDS DATA SHEET #1

PROJECT NAME: \_\_\_\_\_

1. Agency / Firm Making Submittal: \_\_\_\_\_

2. Address: \_\_\_\_\_

3. Contact Name: \_\_\_\_\_ Contact Phone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

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

4. Project Location: \_\_\_\_\_

5. Project Category: \_\_\_\_\_

6. Outside Consultant(s): \_\_\_\_\_

7. If a winning entry, please give exact name(s) or title(s) as they should appear on the plaque or certificate:

## Judging

The judging panel shall consist of not less than three nor more than five judges. All judges will be qualified design professionals such as engineers, architects, biologists, botanists, or others involved in the conservation or environmental field. At least two of the judges will be a member of ACE. The judges will be selected by the Awards Committee and may reside in the state

hosting the conference. The judges will meet soon after the submission deadline to evaluate and select the projects to receive awards. The judges' decision shall be final.

None of the judges may submit entries nor be identified with any submitted entry.

## Definitions of Ratings Guidelines

### **1. Originality / Innovation / New Application of Existing Techniques:**

Does the entry represent any new branch of conservation engineering or some type of breakthrough in general knowledge of our environment?

Does the entry represent a unique mix of different techniques, materials or equipment?

### **2. Technical value to the Conservation Engineering Profession:**

Does the entry advance the state of the conservation engineers' art?

### **3. Complexity:**

Does the entry involve very complex criteria or types of problems to be addressed?

Were extraordinary problems of site, location, hazardous conditions, project requirements, or similar elements present?

Does the entry require out-of-the-ordinary technology and ingenuity for achievement?

### **4. Meeting and Exceeding Owner's Needs:**

Is it an economical and cost-effective solution?

How did final cost relate to original budget estimate?

How closely does the entrant's solution meet the total goals of the owner?

Does the entry meet and justify its original concept?

Did the entrant meet the owner's time schedule?

### **5. Natural Resources and Environmental Considerations:**

Does the entrant's solution bring into play an improved program, i.e., are additional benefits realized as a spin-off?

Does the entrant's role provide society with any useful advancement in the area of conservation and environmental sciences?

Is the public health, safety, or welfare enhanced as a result of the entrant's role in the project

## Awards

The jury shall make awards to three meritorious entries. At the discretion of the jury, the number of awards may be limited or expanded. The following awards will be issued:

Award of Excellence.....Special Award

Award of Merit..... Plaque

Award of Honor.....Plaque

A certificate of participation may be presented to all other qualified entries. From time to time a letter of recognition or certificate may be awarded to other entries as the judges may recommend.

**Awards will be presented during the Awards Banquet at the ACE 53rd Annual Conference in Bend, Oregon September 21-25, 2014.**

*For use of award chairperson only*

PROJECT REG. NO. \_\_\_\_\_

Received \_\_\_\_\_

## ACE 2014 DESIGN AWARDS DATA SHEET #2

PROJECT NAME: \_\_\_\_\_

In approximately 500 words (total), write a short summary of the project features and solutions that best answer the following rating guidelines:

- |   |            |
|---|------------|
| 1. Complexity of Program:   | 15%        |
| 2. Technical Value to Conservation Engineer's Profession:         | 15%        |
| 3. Originality/Innovation/New Application of Existing Techniques: | 20%        |
| 4. Meeting and Exceeding Owner's Needs:                           | 25%        |
| 5. Natural Resources & Environmental Considerations:              | <u>25%</u> |
|   | 100%       |

*Note: The unnecessary use of names of agencies, departments, consultants, or individuals should be avoided.*



## PAPER ENTRY FORM

*Submit by May 16, 2014*

1. Paper Title: \_\_\_\_\_

2. Author: \_\_\_\_\_

3. Name: \_\_\_\_\_ Title: \_\_\_\_\_

4. Organization: \_\_\_\_\_

5. Address: \_\_\_\_\_

6. City/State/Zip: \_\_\_\_\_

7. Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email \_\_\_\_\_

8. List any conferences where this paper has been previously presented

\_\_\_\_\_

9. List any equipment needs (Laptop, projector, etc)

\_\_\_\_\_

10: List any specific product your paper endorses

\_\_\_\_\_

Fax, mail, or email form to:  
Bob Roads  
HDR Engineering  
5201 South Sixth Street Road  
Springfield, IL 62703  
217-585-8300  
217-585-1890 (Fax)  
*bob.roads@hdrinc.com*

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# 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 at the annual awards banquet. It is the discretion of the recipient on how the award shall be used.

rev: 03/2014

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

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

**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 01, 2014**  
Winner will be notified by September 15, 2014.

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# Recruitment of New Members is Priority

As we hit the midway point between conferences, I'd like to thank all the people serving on various committees working to keep the organization moving forward. Thank you all for your hard work throughout the year!

A few items were brought to my attention over the last month that would greatly benefit from the participation of all members. The Membership Committee is working hard to convey the benefits of membership in ACE, and to recruit new members. Tom Hohman, chair of the Membership Committee, has requested that our current members aid in this recruitment drive by sharing names of people we interact with who may be interested in joining the Association. If you are aware of anyone who may be interested in joining, or could benefit from the joining, please forward their contact information on to Joel Krause at [jkrause@fs.fed.us](mailto:jkrause@fs.fed.us)



## President's Message

BREAGAN EICHER

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*James Schalk Scholarship  
... an excellent opportunity  
for any students enrolled in  
a conservation engineering  
related program.*

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Another opportunity for member involvement is in the form of the James Schalk Scholarship. An updated application form for 2014 will be available on our website shortly. This is an excellent opportunity for any students enrolled in a conservation engineering related program.

I remember how tedious searching for scholarships was as a college student, and how much easier it was to find a scholarship opportunity if someone I knew forwarded me information, rather than leaving me to search on my own. The other portion of maintaining a robust scholarship program is funding. We will be adding a line in the conference registration this year to allow people to donate directly to the scholarship fund, and hope you will consider donating to the next generation of conservation engineers.

**Breagan Eicher**

**ACE RESOURCES**  
HDR, 5201 South Sixth Street Road, Springfield, IL 62703-5143