

# ACE RESOURCES

A newsletter for the Association  
of Conservation Engineers

JULY 2016

Enhancing our  
Natural Resources

## Respect for Game Wardens / Rangers

The 2016 ACE Conference is rapidly approaching. Register now and start making your plans to attend September 25 – 29 in Claremont, California. Tyrone Kelley, US Forest Service Director of Engineering for the Pacific Southwest Region has planned an excellent program for this year's conference.

Law enforcement has suffered several tragic events in the past few months, the most recent being Dallas, Texas. How often do we pause to reflect on the jobs our respective state wildlife officers and federal park rangers do? Do they receive the respect they deserve from the public? I've sometimes heard remarks about "game wardens" being "possum cops." I've seen video clips of a young person being arrested for being a minor in possession of alcohol and commenting to the arresting officer, "You can't arrest me you're just a game warden." Here in Arkansas, our Wildlife Officers have the broadest policing authority of any law enforcement agency in the state. When a natural disaster occurs, our officers are there with boats, ATVs and 4x4 vehicles to render whatever service is necessary. When a criminal suspect is believed to be in a rugged wooded area, our officers provide support to other law enforcement agencies with ATVs, 4x4 vehicles and K-9 officers to assist in apprehension. When there is a drowning, our Enforcement dive team is on-site to search and recover the body. An Enforcement chaplain is on site to counsel with the grieving family. Take time to thank your state and federal wildlife enforcement officers for the job they do that goes far beyond simply being

### President's Message

DALE GUNTER

"game wardens" or "rangers".

It is easy for conservation engineering to get caught up in the technical detail of our jobs and forget to enjoy the fruits of our own labor. Take time this summer to enjoy our state and federal recreational resources. They are economical and sometimes no cost to enjoy. The second weekend in June is "Free Fishing Weekend" in many states including Arkansas. The Arkansas Freedom Foundation and the Arkansas Wildlife Federation sponsors a Fishing With Heroes Bass Tournament that weekend

on Lake Dardanelle and invites wounded veterans from all over the country to come to Russellville State Park to be paired with a volunteer boat captain for a day of fishing fun and competition. This is a standing reservation on my calendar each year. The photo is SFC Rufus Hicks, my Hero, and I at this year's event.

I'm looking forward to seeing everyone in California in September.

**Dale Gunter, P. E.**  
**ACE President**



SFC Rufus Hicks and ACE President Dale Gunter at this year's Fishing With Heroes Bass Tournament at Russellville State Park, Arkansas.

Award Competition

4-9

Conference Agenda

10

Conference Hotel

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Scholarship

12-13

# Past ACE President Carl North passed away in December 2015

Carl M. North, 91, Indianapolis, died December 11, 2015 at his home. He was born in 1924 in Williams County, Ohio.

Carl was a veteran of the U.S. Army during World War II, serving in Central Europe. On December 5, 1946 he married Mary E. North (who preceded him in death). Together they were a couple that radiated strength, composure and happiness.

In 1950, they moved to Terre Haute, Indiana for Carl to attend Rose Hulman on GI bill. He graduated in 1955 and began working for Paul J. Kleiser & Associates.

While there, they made friendships that have lasted a lifetime.

In 1965, they relocated to Indianapolis for him to begin work for the Department of Natural Resources, Division of Engineering, State of Indiana. He became the Director of Engineering and later the State Engineer, Public Works Division. Carl was known for his work ethic, dedication to family and sense of humor. Carl was former Director of the Division of Engineering for Indiana Department of Natural Resources and ACE president in 1982-83.

Survivors include daughter Carla North and three of his 13 siblings, Dean (Elsie) North of Edon, Ohio, Rosemary Renn of Marion, Ohio and Helen Grandy of Bryan, Ohio.

Memorial contributions can be made to organizations that promote the conservation of natural resources or scholarships for education. Arrangements were entrusted to Simplicity Funeral & Cremation Care, Indianapolis, Indiana.

## Committee Members

2015 - 2016

### EXECUTIVE COMMITTEE

**Dale Gunter, AR**  
President

**Holly Bentz, OR**  
President Elect

**Joel Krause, MT**  
Past President

**Breagan Eicher, IN**  
Past President

**Howard Thomas, MO**  
Treasurer

**Natalie Little, UT**  
Secretary

**David Bumann, WY**  
At-Large Member

**Matt Cochran, IL**  
At-Small Member

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Greg Mihalevich, MO  
Dave Bumann, WY  
Norval Olson, CO

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Karen Valiquett, IN  
Josh Morgan, KY  
Alice Anderson, TX  
Randy Knott, GA

### Membership

Gary Wilken - Chair  
Jeff Leftwich, MO  
Matt Cochran, IL  
Natalie Little, UT  
Chitra Poudel, MO

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Tyrone Kelley, CA - Chair  
Holly Bentz, OR  
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### Scholarship

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Joel Krause, MT  
Erica Davis, AL  
Terra McParland, IL

### Tim and Place

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### Special Communications / Social Media

Norval Olson, CO - Chair  
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Darin Martens, WY

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Norval Olson, CO- Chair  
Colter Pence, MT  
Bo Vandergriff, OK  
Dale Gunter, AR

### Operations Manual

Randy Knott, GA – Chair  
Tom Hohman, IN  
Breagan Eicher, IN  
Dale Parsons, MO

### History

Tom Hohman, IN – Chair  
Norval Olson, CO  
Linc Cochran, IL  
Gary Wilken, IL  
Terry Boyd, AL

### Past Presidents Committee

Joel Krause, MT – Chair  
Breagan Eicher, IN  
Dave Bumann, WY

### Spouse Advisory

Jean Olson, CO  
Abby Eicher, IN

# News and Thank You from Alabama

Greetings from Alabama. I want to first thank all of you for the thoughts, prayers, and donations in Missy's honor, during our six month battle with cancer. The write up in the April 2016 ACE Newsletter about Missy was great.

Hope all of you are surviving the summer. It is never too early to start making plans to attend the 2016 Conference in Claremont, California. Everyone has great projects so please present a paper, who knows it might help you get permission to attend if you present a paper.

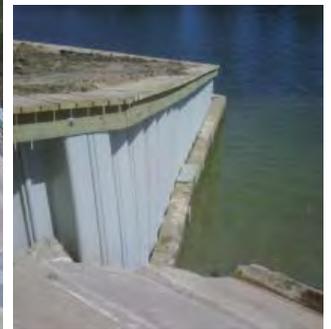
We have been busy in the south and very hot already hit 100-plus degrees. We have several projects due to floods in late December and early January - over 25 inches in a few days. So guess what? We are back at doing more FEMA paperwork again.

Speaking of FEMA we just finished up the final paperwork for the 2011 Tornadoes, but it should mean around \$940,000.00 additional funds for our State Parks Division.

We finally finished the boat basin project for our Claude Peteet Mariculture Center on the Intracoastal Waterway in Gulf Shores.

I have said this before but I believe it is worth saying again, Lynda does a great job of putting together the newsletter, but without input from the membership, she has nothing to put in it. So, I encourage every ACE member to submit at least one paragraph to the newsletter letting everyone know what is going in your state or at your facilities. Please send a brief description and pictures of your projects. We can all learn from others successes and failures.

I am still offering my membership challenge fund, even with the dues increase, so please get someone to join because I would rather pay for 8 new members than me spend it on shells or bait. I want to encourage everyone to get one new member this year.



Completed boat basin project at the Claude Peteet Mariculture Center in Gulf Shores, AL.

Speaking of membership I was chairperson of the membership committee last year, I know we made a big push and then I got sidetracked with Missy's illness. I am now ready to get back on that mission, so Gary and committee, if I can assist with membership, let me know.

Please contact your peers and tell them about ACE, what a great information sharing forum for those in the conservation and natural resources engineering design and construction field, because there are not many college courses that address most of the issues we deal with on a daily basis, being able to share information, designs, ideas, not having to reinvent the wheel saves time

and money.

Pictured below are the memorial fishing reef we deployed in Missy's honor in June. We also had a luau party to scatter her ashes at the beach on June 18th. Her son, Joshua, is on the jet ski scattering ashes. We had some of our old ACE buddies from Illinois attend the luau (Gary and Linda McCandless).

I was looking forward to see you all in Claremont, but I am having knee surgery on September 23rd, will not be able to attend.

**Terry N. Boyd, PE, PLS**  
Chief of Engineering Section  
ADCNR





# ASSOCIATION OF CONSERVATION ENGINEERS



## 23rd Annual Carl Anderson Conservation Engineering Project Awards Competition Announcement and Rules



*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 email or postmarked on or before **Friday, July 29, 2016**)*

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: (\_\_\_\_\_) \_\_\_\_\_

E-mail: \_\_\_\_\_ Fax No: (\_\_\_\_\_) \_\_\_\_\_

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*

**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.**



## Purpose

The purpose of the Carl Anderson Conservation Engineering Project Awards competition is to give recognition to those members, consultants 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

Dams (water supply, irrigation, flood control, recreational) Fisheries management, Parks and Wildlife facilities, Energy generation, transmission, distribution, conversion, conservation and storage-mitigation, Drainage systems, Incineration, Mine Reclamation, 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 that 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.
4. The project must have written permission from the owner for entry into the competition and future publication.



# ASSOCIATION OF CONSERVATION ENGINEERS



## 23rd Annual Carl Anderson Conservation Engineering Project Awards Competition Announcement and Rules



*For use of award chairperson only*

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

Received \_\_\_\_\_

### ACE 2016 DESIGN AWARDS DATA SHEET #1

*(This page is due by fax, email or postmarked on or before Friday, August 12, 2016)*

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

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

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

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

E-mail: \_\_\_\_\_ Fax No: \_\_\_\_\_

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

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

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

7. If a winning entry, please give exact Project Information as it should appear on the plaque or certificate:

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

Project Owner &/or  
Consultants: \_\_\_\_\_

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



# ASSOCIATION OF CONSERVATION ENGINEERS



## 23rd Annual Carl Anderson Conservation Engineering Project Awards Competition Announcement and Rules

### Entry

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

**FIRST:** Send your Declaration of Intent to submit by fax, email or mail postmarked no later than Friday, **July 29, 2016**.

**SECOND:** Prepare your Entry packet. Entries must be postmarked no later than Midnight Eastern, Friday, **August 12, 2016**.

#### The entry Packet shall include the following:

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.

**Note:** *If submittal is larger than 10 MB, then the entry can be submitted on a CD to the Committee Chair.*

Winners will be notified on or before August 26, 2016, to prepare a Project Panel to bring for display and presentation at the ACE 55th Annual Conference in San Dimas, CA, September 25-29, 2016.

### Winner Project Panel

#### To be completed before the 2016 Conference

A project panel is 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 are on display during the Conference for viewing by all in attendance. Project panels are returned to their owner at the end of the conference.

Project panels are 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 B/W or colored photos, printed texts and/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—Breagan Eicher**  
 Civil Engineer, Lawson-Fisher Associates  
 525 West Washington Avenue  
 South Bend, IN 46601  
 PH# (574) 234-3167  
 Fax# (874) 236-1330  
**beicher@lawson-fisher.com**

*Note: The entry fee for the 2016 awards competition has been waived. No entry fee will be required.*



*For use of award chairperson only*

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

Received \_\_\_\_\_

## ACE 2016 DESIGN AWARDS DATA SHEET #2

*(This page is due by fax, email or postmarked on or before Friday, August 12, 2016)*

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

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

**Note:** *The unnecessary use of names of agencies, departments, consultants or individuals should be avoided. The name of the submitter(s) is removed prior to project review, so that the panel of judges may consider projects based on solely on merit.*

- |   |            |
|---|------------|
| 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%       |



# 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 55th Annual Conference in San Dimas, California, September 25-29, 2016.**

# ASSOCIATION OF CONSERVATION ENGINEERS

## 55th Annual Conference - September 25-29, 2016

Monday, Sept. 26	
Caring for the Land and Serving People	<b>Jennifer Eberlien</b> , Deputy Regional Forester, USDA Forest Service Pacific Southwest Region
Overview of USDA Forest Service Technology and Development Programs	<b>Alex Gavrishoff P.E.</b> , Director – USDA Forest Service National Technology & Development
Professional Ethics in Engineering - Case Studies	<b>Tom Hohman P.E.</b> , Indiana Department of Natural Resources; Retired
Hume Lake Dam Rehabilitation Project	<b>Stephen Romero P.E.</b> , USDA Forest Service Pacific Southwest Region (R5) Dam and Geotechnical Engineer
Epic Discovery, A First-Of-Its-Kind Summer Adventure Experience	<b>Andrew Strain</b> , Vice President of Planning & Governmental Affairs Heavenly Mountain Resort   Northstar California Resort, Lake Tahoe
Dovetails and Broadaxes: Hands-On Log Cabin Preservation	<b>Kathie Snodgrass</b> , Architect, Project Leader National Technology and Development USDA Forest Service
Saws & Slaws	<b>Norval Olson</b> , Colorado Parks and Wildlife, Retired
TBD	<b>Howard Thomas</b> , Missouri Department of Conservation
Rock Road Refurbishing with the IronWolf Crusher	<b>Bo Vandergriff</b> , IronWolf Manufacturing, LLC
Tuesday, Sept. 27	
Burn Area Emergency Response (BAER) Embankment Protection Project	<b>Mark Russell P.E.</b> , Project Leader National Technology and Development, USDA Forest Service
Lake Isabella Dam Safety Modification Project	<b>Creg Hucks P.E.</b> , Director South Pacific Division Dam Safety Production, US Army Corp of Engineers
Trends in sport fish Restoration Hatchery Design	<b>Matt Cochran</b> , Fisheries, HDR
Climate Change Vulnerability / Adaptation	<b>Natalie Little P.E.</b> , USDA Forest Service
Wednesday, Sept. 28	
Boiler Ash Road Stabilization Project	<b>Mark Russell P.E.</b> , Project Leader National Technology and Development, USDA Forest Service
Aquatic Organism Passage	<b>Kurt Gerner P.E.</b> , National Assistant Director of Engineering, USDA Forest Service
Wyoming Sage Creek Road – Aquatic Organism Passage (AOP) Project	<b>Julian Maskeroni P.E.</b> , Federal Highways Administration Central Federal Lands
FAST ACT Federal Land Access Program Project	<b>Richard Tippett P.E. T. E.</b> , Director Trinity County Department of Transportation, County Engineers Association of California
California High Speed Rail Study of Tunnel Routes under the Angeles National Forest (San Gabriel Mtn National Monument)	<b>Michelle Boehm</b> , Southern California Regional Director, California High - Speed Rail Authority
SR 89/Fanny Bridge Community Revitalization and SR 28 National Scenic Byway North Demonstration Projects	<b>Carl Hasty</b> , District Manager, Tahoe Transportation District
USDA Forest Service Geospatial	<b>Carl Zulick</b> , National Assistant Director of Engineering, USDA Forest Service
San Dimas Technology Development Center Photo Voltaic (Solar) Project	<b>John Handy</b> , Federal Business Development Manager REC Solar
Award Winning Angeles National Forest Supervisor Office	<b>Ricardo Lopez</b> , Facilities Engineering, Angeles National Forest, USDA Forest Service

Conference information is available on the ACE Conference Page at  
<http://www.conservationengineers.org/conferences/2016Presentations/index.html>  
 including registration for the conference as well as lodging

# 2016 ACE Conference Information

Nestled in the foothills of the San Gabriel Mountains, Claremont, California is one of those perfect places that combines charm, excitement and natural beauty. It is an inviting college town with tree lined streets, live music and stunning architecture. Claremont seems to be right in the middle of all the action without all the distraction. Expect sunny days, a full schedule at this year's Conference, and opportunity to participate in various tours designed to showcase all that Claremont has to offer.

## Getting to Claremont

A small oasis in the middle of the hustle and bustle of the greater Los Angeles area, getting to Claremont is easy.

*Ontario International Airport (ONT):* Conveniently located only minutes from the Claremont Village Shops and the conference hotel.

*Burbank Bob Hope Airport (BUR) and Los Angeles International Airport (LAX):* These two airports are about 50 miles from Claremont and also offer convenient service and shuttles.

## Conference Registration

Full conference registration includes all conference sessions, lunches and evening events. For those attending the entire conference, a certificate acknowledging 15 Professional Development Hours will be awarded. Register by August 15th to receive the early registration rate. Please go online for registration or print and mail/fax the Attendee Registration Form provided there.

## Optional Conference Item

On Thursday, Sept. 29, a tour to the award winning



Angeles National Forest Supervisor's Office in Arcadia, the West Fork Pedestrian Bridge Project, and Cattle Canyon Visitor Services Project of the San Gabriel River in the San Gabriel Mountains National Monument is available.

## Guest Program

The guest agenda features conference sessions as well as events specifically for guests. Highlights of the Guest Agenda include: an afternoon tour of the Botanical Gardens; a tour of the San Dimas Technology Development Center, and shopping in Historic Claremont.

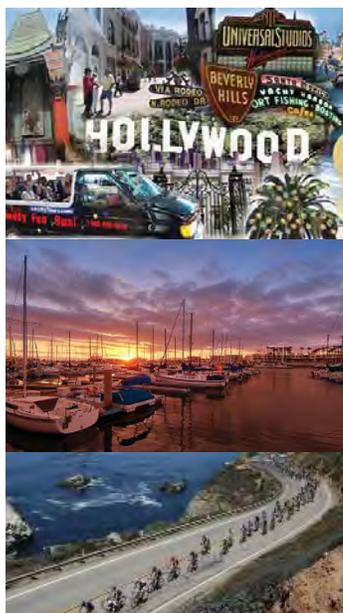
## Hotel Information

The Doubletree by Hilton is located less than a mile from the charming shops and restaurants of Claremont Village. Please contact the hotel directly for lodging information and reservations. Call 800-222-TREE and make sure to mention ACE to guarantee the conference room rate of \$120 plus tax. Reservations must be made by September 5th to receive this rate.

## Airport Shuttle

A 10% Discount on the Super Shuttle from the Airport is available to conference attendees.

## 2016 ACE Conference - Things to do while in Southern California



**Rancho Santa Ana Botanic Garden** - California has the richest flora of any state in the United States. Nearly 40% of the more than 6,000 kinds of native plants species are endemic to California which means they occur here and nowhere else in the world. More than 1,100 plant species are considered rare or endangered in California. Rancho Santa Ana Botanic Garden programs and facilities have had a long and successful history of promoting conservation of California's native plant diversity through research, education, and collections.

**Candlelight Pavilion Dinner Theater** - Ben D. Bollinger's Candlelight Pavilion Dinner Theater in Claremont provides patrons with a dinner theater and musicals for a theatrical experience the caliber of the Broadway shows in downtown LA - without the freeway or parking dilemmas.

**Raging Waters San Dimas** - 50 beautifully landscaped acres of slides, attractions and a sand beach, offer family fun for everyone.

## Other nearby attractions:

Auto Club Speedway  
City Center  
Claremont Village  
Disneyland  
Knott's Berry Farm  
LA County Fairgrounds/Fairplex  
Montclair Plaza  
Mt Baldy Ski Resort  
Ontario Mills Mall  
Pasadena Rose Bowl  
Quakes Stadium  
Route 66 Museum  
Staples Center  
Universal Studios  
University of LaVerne  
Victoria Gardens Mall  
Citizens Bank Arena

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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 a [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 students of the undergraduate study program and students of the graduate study program, enrolled in an accredited course of college, directed toward a BS or MS 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.

rev: 02/2016

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

2016 Application Form

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

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

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

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

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

Class (circle one): Junior / Senior of undergraduate study and graduate study

Anticipated Graduation Date: \_\_\_\_\_

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

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

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

Champak N Patel, P.E.  
Civil Engineer  
3938 S Emerson Ave.  
Indianapolis, IN 46203  
**Or email to:** cpatelbg@yahoo.com

**Applications must be received no later than August 15, 2016**

Winner will be notified by September 15, 2016.

**SOUTHERN CALIFORNIA**

# ACE 55th ANNUAL CONFERENCE

September 25-29, 2016

DoubleTree by Hilton  
Hotel Claremont  
555 W. Foothill Blvd.  
Claremont, California 91711  
Ph: 909.626.2411  
Fax: 909.624.0756

**Register for the Conference online at:  
[http://www.conservationengineers.org/  
conferences/2016Presentations/index.html](http://www.conservationengineers.org/conferences/2016Presentations/index.html)**

**ACE RESOURCES**

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