

Newz and Viewz

Calendar of Upcoming Events

September 2017

*Remember – All employees of member firms are members of ACEC/AZ.
Everyone is welcome and encouraged to attend meetings and programs!
Please register at least 48-hours in advance for all programs.*

September Meetings

- 06** **ACEC of Arizona and ADOT Liaison** – 7:15 a.m. Breakfast
University Club, 39 East Monte Vista, Phoenix
Speaker: Greg Byres, Division Director, Multimodal Planning, ADOT
Topic: Overview of the Five-Year Program, Major Projects Across Arizona, Status of Funding, Challenges in Implementing Program ... plus, a Schedule of Upcoming RFQ's
- 08** **ACEC of Arizona Board Meeting** – 11:30 a.m. to 2:00 p.m.
University Club, 39 East Monte Vista, Phoenix
- 12** **ACEC of Arizona Business Practices Committee** – 7:15 a.m. Breakfast
University Club, 39 East Monte Vista, Phoenix
Speaker: Doug Folk, Attorney, Clark Hill PLC
Topic: Recent Arizona Supreme Court Case Upholding Statute of Repose Bars Untimely Claims
- 13** **ACEC of Arizona Maricopa County Liaison** – 7:15 a.m. Breakfast
University Club, 39 East Monte Vista, Phoenix
Speaker: Denise Lacey, Planning Branch Manager, Transportation Systems Management
Topic: The Active Transportation Plan
- 14** **ACEC of Arizona Roads & Streets Committee** – 11:30 a.m. Luncheon
University Club, 39 East Monte Vista, Phoenix
- 19** **ACEC of Arizona and Pinal County Liaison** – 7:15 a.m. Breakfast
The Property, 1251 W. Gila Bend Highway, Casa Grande
Speaker: Andy Smith, Transportation Planning Supervisor, Pinal County
Topic: Regional Transportation Plan for Pinal County
- 21** **ACEC of Arizona HR, PR, Social Media Committee** – 7:30 a.m. Breakfast
University Club, 39 East Monte Vista, Phoenix
Speaker: Beverly Babb, CAE, AdamsChandler LLC
Topic: What's New in Websites and Databases
- 23** **ACEC of Arizona Awards Banquet** – 5:30 to 9:30 p.m. Reception/Awards/and Dinner
Phoenix Art Museum, 1625 North Central Avenue, Phoenix
- 26** **ACEC of Arizona Golf Committee** – 11:30 a.m. Luncheon
University Club, 39 East Monte Vista, Phoenix
- 28** **ACEC of Arizona and City of Phoenix Liaison** -- 11:30 a.m. Luncheon
University Club, 39 East Monte Vista, Phoenix
Speaker: Tracee Crockett, Assistant Director, City of Phoenix Parks and Recreation Department
Topic: Hance Park Master Plan Update

In The Newz

CivTech proudly announces the return of Gerry Perez to the design team, plus welcome Stephanie Croker as the new Traffic Engineering Technician.

HILGARTWILSON is very proud to announce the addition of Debra Donado in the leadership role of Operations Manager.

Rick Engineering Company welcomes Sanjay Paul to their Phoenix Office as a Principal Traffic Engineer.

PARSONS has moved to 1050 West Washington Street, Suite 114, Tempe, AZ 85281.

PAC Activity

“Thank You” to the following PAC contributors:

**James Barr * Michael Bechtel * Bruce Beenken * Maria Brady * Janice Burnett
Tony Cabrera * Donna Chiappini * Tim Crall * Gregg Creaser * John Derr * Kent Dibble
Jeff Erickson * Lauren Evans * Bill Ferris * Doug Folk * C. G. * Greg Haggerty * Sam Heffelfinger
Dan Heller * Paul Iezzi * Lance Jones * Jay Koesters * Julie Leid * Rob Linke * Bill Linck
Tony Mardum * Jim Martin * Dan Marum * Doug McCants * Cliff Metz * Doug Moseke
Ahmad Omais * Bruce Paton * Chris Patton * Doug Peters * Dave Peterson * Ben Porritt
Steve Rex * Kevin Roberts * Michael Schiller * Scott Schlund * Melissa Serven
Curt Slagell * Tom Smith * Don Tappendorf * Jon Treen**

*Total PAC dollars raised to date = \$12,799 // Goal = \$18,753
Please Help Us Make Our PAC Goal!!! See Attached PAC form.*

Congratulations to the 2017 ACEC of Arizona Engineering Excellence Award Winners

Engineering Excellence Awards Banquet – Saturday, September 23rd.
Phoenix Art Museum, 1625 North Central Avenue, Phoenix 85004

Reserve a Table Today!!!

2017 Engineering Excellence Grand Award Winning Projects

The “Judges Choice Award” for the Grand Award high scoring project will be announced at the event.

AECOM

Client: Arizona Department of Administration

Project Name: Hillside Mine Remediation

Rich gold and silver were discovered at the Hillside Mine in 1887. Mining activity ceased in the mid-1950s leaving behind continual erosion of tailings into nearby Boulder Creek, adversely impacting water quality. The project goal focused on a sustainable and long-term solution. Rather than importing soils, AECOM identified on-site locally derived rock to protect the evapotranspiration cover from erosion along Boulder Creek during flood events. “Thank You” AECOM for designing a long-term solution and reclaiming a site that will ultimately blend into the natural surroundings.

Dibble Engineering

Client: City of Phoenix

Project Name: 27th Avenue Composting Facility

The new composting facility is capable of processing up to 110,000 tons of green and food waste per year, resulting in an estimated 11% reduction of waste being sent to the city landfills. The compost will be sold to landscapers and used by the City to maintain its parks. This facility is not only a key component in the City’s waste reduction plans, but is also a key piece of the City’s new Resource Innovation Campus, which aims to be a hub for innovators to develop Phoenix’s circular economy and find sustainability solutions. “Thank You” Dibble Engineering for being a leader in sustainability!

Entellus, Inc. / Carollo Engineers

Client: City of Phoenix

Project Name: Raw Water Pump Station and Pipeline

The new nine MGD Raw Water Pump Station and Pipeline from Union Hills Water Treatment Plant to Cave Creek Water Reclamation Plant provides the ability to move Central Arizona Project raw water into the Cave Creek non-potable water delivery system. Innovations included dual mechanical strainers for mussel and debris control; 24-inch HDPE pipe; and operating at night. “Thank You” Entellus, Inc. and Carollo Engineers for a project completed on time and under budget, leaving a legacy of innovation that can provide even greater benefit to Phoenix and its citizens in the future!

Gannett Fleming

Client: City of Phoenix Aviation Department

Project Name: Phoenix Sky Harbor Terminal 3 Modernization – Phase 1

“Brutal architecture with good bones” – that’s how Phoenix Sky Harbor International Airport leaders described their 1970s era Terminal 3 building. The transformation is a story of imagination, investigation, innovation, and teamwork. The team demolished 56,600 square feet of underused floors, installed 14 geometrically complex skylights, and added 29,380-square-foot at the west end providing three new escalators and elevators that serve as the main interface with the PHX Sky Train® Portal. “Thank You” Gannett Fleming for utilizing the “good bones” of this building to achieve a world-class modern terminal!

Gannett Fleming

Client: City of Tempe

Project Name: Tempe Town Lake Downstream Dam Replacement

As one of the largest hydraulically controlled steel-gate dams of its kind, the Tempe Town Lake Downstream Dam is a shining example of innovative design and construction. The dam has eight hydraulically operated steel gates, each 106 feet long, 17 feet tall, and approximately 300,000 pounds, and it includes a one-of-a-kind dogging system for maintenance and repair of the dam’s hydraulic cylinders while maintaining the lake. “Thank You” Gannett Fleming for ensuring the preservation of Tempe Town Lake, a treasured recreational facility and community gathering place!

GHD Inc.

Client: EPCOR (USA) Water, Inc.

Project Name: Bell Road Force Main Improvements

Based on the complexities of the project, EPCOR choose to use the construction manager at risk process. GHD was teamed with Achen Gardner Construction to discuss the project approach and the team listened to new ideas and methods to complete the project on schedule. Lessons learned included the technical design of the pipeline; the development of alternative alignments considering constructability; cost and risk; and phasing the project for permitting and construction. “Thank You” GHD Inc. for successfully demonstrating the value of alternative delivery methods for infrastructure projects!

HDR Engineering, Inc.

Client: Pima County Department of Transportation

Project Name: Elephant Head Road Bridge at the Santa Cruz River

This was a severely deteriorated bridge that required a new concrete superstructure and precast, prestressed concrete box girders to support current AASHTO truck loading; design of the approach roadway, metal railings and a detour through the Santa Cruz River. Approximately 5,000 bats were excluded from the existing bridge prior to demolition and have since re-established themselves back in the new bridge superstructure. “Thank You” HDR Engineering for access across a major river by completing the design in 10 weeks and the demolition and construction in only 49 continuous days!

J2 Engineering and Environmental Design, LLC

Client: City of Peoria

Project Name: Peoria Cove

“Peoria Cove” adds a new dimension to Spring Training facilities. Two distinct zones, “The Ballyard” and the “Shipyard” reached fruition through a connected design process where the client’s desire to capture a new generation of sports fans by creating a themed play zone was balanced with budgetary and site constraints. This led to a first of its kind Kid’s Xone at a spring training facility. No other ballpark has a custom ship integrated into a concourse, complete with a playground, splash pad, and shade sail mast. “Thank You” J2 for providing users with new memory opportunities beyond the crack of the bat!

LSW Engineers Arizona, Inc.

Client: Midwestern University

Project Name: College of Veterinary Medicine Equine and Bovine Center

The Equine and Bovine Center is a new 70,000 SF, two-story large animal facility located on the 143-acre campus in Glendale. The facility consists of buildings and open structures including Bio-Safety Level 2 & 3 large animal necropsy laboratory spaces, tissue storage, histopath laboratory, biohazard storage, teaching theater, chemical storage, feed storage, bovine and equine housing areas and treatment rooms, pharmacy, and much more. “Thank You” LSW Engineers for meeting the complex mechanical, plumbing, electrical, technology design and construction phase services for this unique facility!

Psomas

Client: City of Tucson

Project Name: Sabino Canyon Road – Tanque Verde Road to Kolb Road

This \$12 million project extended a 4-lane, divided roadway approximately one mile. Several unique challenges were addressed including construction of a bridge over a closed landfill and a bridge over the Pantano Wash; intersection and drainage improvements, bike lanes, sidewalks, and a multi-modal path connecting Pantano Linear Park with Udall Park. The bridge over the Pantano Wash was dedicated as the Airmen Memorial Bridge to honor 18 servicemen who died in a mid-air collision near the site in a WWII Training accident. “Thank You” Psomas for striking a balance that works for many diverse interests!

Speedie & Associates, Inc.

Client: Ryan Companies for Marina Heights

Project Name: Marina Heights (*State Farm*)

The 2,040,000 SF Marina Heights campus is the largest development in Arizona history. Understanding the local geology on which the structures would be built was imperative. Soil conditions ranged from sand, gravel, and cobbles, then deep loose sand and shallow rock close to Hayden Butte. An innovative combination of mat foundations, spread footings and drilled shafts were used to meet these challenges. Special inspections and quality control services were provided to the contractor. “Thank You” Speedie & Associates for identifying and addressing the various geologic hazards!

Structural Grace, Inc.

Client: Pima County Department of Transportation

Project Name: Sunset Road – Silverbell Road to Interstate 10

The project included a new 3-lane, multi-modal arterial roadway and a new 720' bridge across the Santa Cruz River. The project addressed off-site overland cross drainage, with a roadside channel designed for conveyance. Check dams were added to the channel to enhance the landscape experience by harvesting runoff for irrigation. The underlying geology was conducive to evaluating the influence of pore water pressure during storm events allowing for shorter drilled shafts and a savings of approximately 1 million dollars. "Thank You" Structural Grace for your multi-disciplinary approach and adaptive strategies!

2017 Engineering Excellence Honor Award Winners

AECOM Technical Services, Inc.

Client: Arizona Department of Transportation

Project Name: State Route 77 – Widening & Wildlife Crossings

The wildlife crossing structures and one-of-a-kind wildlife elements are highly functional allowing wildlife to safely cross under and over SR 77, thus reducing wildlife fatalities and vehicle collisions.

Entellus, Inc.

Client: Desert Botanical Garden

Project Name: Desert Botanical Garden Underground Retention System

A Master-Planned Retention Offset allowed the stormwater volume to be collected & stored at a location separate from exhibits and facilities, plus retention on a parking area decreased stormwater damage.

Entellus, Inc.

Client: City of Mesa

Project Name: Val Vista Transmission Main Phase 3

This project stands as a distinguished example of how a critical, rapid paced construction and design complex infrastructure project can be successful when all parties fully commit to its timely completion.

J2 Engineering and Environmental Design, LLC

Client: City of Phoenix Parks and Recreation Department, Natural Resources Division

Project Name: Desert Hills Trailhead

The design preserves the natural washes and embraces the site topography by terracing the parking areas along the existing land contours nestling them into the site with minimal earth disturbance.

Kimley-Horn and Associates, Inc.

Client: Arizona Department of Transportation/Mohave County
Project Name: Oatman Highway at Sacramento Wash Crossing

The design optimized the roadway profile enabling a new bridge and roadway to be constructed utilizing FHWA's Accelerated Bridge Construction method in a record 87 hours, thus minimizing lengthy detours.

Ritoch-Powell & Associates

Client: City of Phoenix
Project Name: Adams Street Activation

The project activated this growing corridor by improving walkability and incorporating sustainable features such as wider sidewalks, LID bioretention basins, lighting, seating areas, and shading amenities.

Stantec Consulting Services Inc.

Client: City of Mesa
Project Name: Porter Park Pathway

The project has been well received by the neighborhood transforming a dark empty alley corridor into a gem that is well lit, maintained, and promotes outdoor recreation and connects schools and parks.

T.Y. Lin International

Client: Arizona Department of Transportation
Project Name: US 60/Bell Road Traffic Interchange

The design and construction approach included ideas providing an optimized best-value solution for traffic operations, reducing congestion, shortening wait times, shaping the community well into the future.

The Clifford Sawyer Achievement Award For Promoting Communication of Engineering Excellence

Desert Hills Trailhead panel board by **J2 Engineering and Environmental Design** clearly outlines the challenges to connect pedestrians and equestrians to the desert preserve ... the design solution minimizes the impact to the site ... and the innovative uniqueness of preserving and making sensitive connections into the habitat of the Sonoran Desert. "Thank You" J2 Engineering and Environmental Design for a panel board celebrating preserving the natural environment!

37th Annual Engineering Excellence Awards



Saturday, September 23rd
Phoenix Art Museum
1625 North Central Avenue
Phoenix, AZ 85004

Attendees have the opportunity to view the current special exhibition entitled “Longer Ways to Go – Photography of the American Road”
This exhibition explores the symbiotic relationship between photography and the folklore of the American highway, including the emblematic Rt. 66.
“Longer Ways” juxtaposes photographs from different eras, exploring themes related to travel, ideals of small-town life, the national heritage of westward expansion, and personal freedom.

Reception starting at 5:30 p.m.

Awards Presentation 6:30 p.m.

7:00 p.m. Dinner

No Host Bar / Semi Formal Dress

Welcome by ACEC of Arizona
Past President Gregg Creaser, P.E.

Special Guest Emcee
Ray Dovalina, Street Transportation
Director, City of Phoenix

Sponsor the Engineering Excellence Awards

Excellence Sponsor ...Investment \$3,000

Firm Name in All Promotional Material ... Recognition During Awards Presentation
Newsletter Recognition ... Firm Sign on Table ... Special Seating at Dinner ... Table of Eight for Dinner

Honor Sponsor ...Investment \$2,000

Special Seating at Dinner ... Firm Sign on Table ... Newsletter Recognition ... Table of Eight for Dinner

Friends Celebrating Engineering Excellence

Newsletter Recognition ... Two Dinner Seats ... Investment \$750

Individual Seating ... \$150 Per Person



37th Annual Engineering Excellence Awards Reservation Form

Saturday, September 23rd
Phoenix Art Museum
1625 North Central Avenue
Phoenix, AZ 85004

“The Sun Vow” by Hermon Atkins MacNeil – 1899 ... Phoenix Art Museum

Firm Name _____

Address _____

City _____ State _____ Zip _____

Contact Person _____

E-Mail _____ Business Phone (_____) _____

Please reserve the following:

___ **Excellence Sponsor / \$3,000**

___ **Honor Sponsor / \$2,000**

___ **Friends Celebrating Engineering Excellence / \$750**

___ **Number of Individual Seats / \$150 Per Person**

Please make check payable to “ACEC of Arizona” or

To pay on-line by credit card, ACEC of Arizona will email invoice with on-line payment options.

Name of Person to receive email invoice: _____

And, their email address: _____

Return this form by September 5th to ensure priority seating at the event:

ACEC of Arizona, 1309 East Echo Lane, Phoenix, AZ 85020

Or Fax to 602/995-2218 or Email engineers@acecaz.org

Questions? Call 602/995-2187

Please save a copy of this form as your receipt.



Win Big

One Entry = \$25

**\$1,000 Grand Prize
Two \$500 Second Place Prizes
Eight \$250 Third Place Prizes**

2017 Arizona ACEC/PAC Goal = \$18, 753 ACEC/PAC Contributor Form

YES! I want to **Win Big** and I want ACEC/PAC to **Win Big** by supporting Members of Congress who will fight for the Business Interests of the Engineering Community.

Enclosed is my personal contribution of \$_____

Name: _____

Firm: _____

Job/Position Title: _____

Home Address: _____

City, State, Zip: _____

Phone: (____)_____; Fax: (____)_____; Email: _____

**Personal, Partnership, and Sole Proprietorship Checks *ONLY* Made Payable to: ACEC/PAC
Or Personal, Partnership, and Sole Proprietorship Credit Card**

_____ MasterCard; _____ Visa; _____ American Express

Credit Card No. _____ Expiration Date _____ Security Code _____

Name of Credit Card Holder _____

Authorized Signature _____

Return to: ACEC of Arizona, 1309 East Echo Lane, Phoenix, AZ 85020

Partnership and sole proprietorship checks are permitted; however, federal law prohibits corporate checks and corporate credit cards. Contributions or gifts to ACEC/PAC are not deductible as charitable contributions for federal income tax purposes. Contributions will be screened and those from outside the restricted class (non-members) and those from individuals who have not given prior approval may be returned. Contributions are voluntary and amounts included herein are merely suggestions. An individual is free to contribute more or less than the guidelines suggest, but may not contribute more than \$5,000 per calendar year. Federal law requires that our committee report the full name, address, occupation and company name of each individual whose contributions aggregate in excess of \$200 in a calendar year.