



The Arizona Civil Engineer

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*The Arizona Civil Engineer is a publication of the Arizona Section of ASCE*

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Information published in the newsletter must be consistent with ASCE Arizona Board Policy.

**President's Message**

**June/July 2016**

*Mark Fountain, PE, CFM, ENV, SP,  
President, M.ASCE*



School is out for the summer! A big congratulation's goes out to all the students this year, we wish you the very best of luck in the future within the engineering community, no matter what path you choose to follow. As a big reminder, don't forget to stay involved and find the ASCE YMF and or Branch nearest you where you may land.

On another note, guess what time it is? Did you guess its time to start thinking about vote for next year's Arizona Section, Branch, and YMF Officers? I knew you would! This year you will be receiving an email from the Board (or a delegate) directing you to an online voting portal through our Section website. Gone are the days of trying to fill out a PDF and sending them back via email. Keep you eyes out, the email will come later in the month of June. Your time and commitment to voting is greatly appreciated.

Do you have plans for October? How about October 3rd? Would you like to escape the heat wave of Phoenix and join some fine folks in the wonderful City of Flagstaff? Who wouldn't! So mark those calendars, and plan for a day of fun! I invite you to attend the ASCE Northern Arizona Branch - NAU ASCE Golf Tournament...

*Continued on Page 11.*

**This newsletter is your link to Arizona civil engineers.**

**Maximize your advertising dollars by placing your ad with ASCE Arizona.**

Ads will appear in this publication and on the website.  
Rates: \$350.00 per year (Business Card)

For Information please contact:  
[editor@azsce.org](mailto:editor@azsce.org)

If you're looking for a civil engineering-related job, visit  
<http://www.azsce.org/classifieds.php>



## Calendar of Events

### June

1

Yuma Branch Luncheon

2

SAB YMF Social

8

Phoenix Branch Luncheon

Southern Arizona Branch Luncheon

9

Northern Arizona Branch Luncheon

14

Section Board Meeting

### July

6

Yuma Branch Luncheon

12

Section Board Meeting

13


Phoenix Branch Luncheon

Southern Arizona Branch Luncheon

14

Northern Arizona Branch Luncheon

**Pass the Civil PE Exam!**  
**EngineeringVideos.Net**



Full Video Subscription Only \$5/Month    Practice Exams and Problems Only \$20-\$25/Book



Friday, September 9, 2016



## 2016 ASCE/ASHE Annual State Conference

DESERT WILLOW Conference Center  
4340 East Cotton Center Boulevard | Phoenix, AZ 85040

Registration	7:00 AM
Conference	7:45 AM-4:30 PM
Networking Reception	4:30-6:30 PM

Conference proceeds support student scholarships.





# Fill a Bag. Feed Families.



ASCE Southern Arizona Branch members helped the Community Food Bank of Southern Arizona in sorting food donations collected by the annual National Association of Letter Carriers Stamp Out Hunger Food Drive. ASCE SAB is looking forward to making this an annual event!





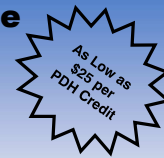
SEE NEXT PAGE FOR CONFERENCE SCHEDULE AND REGISTRATION RATES

# SEAOA 50th Anniversary Convention And Conference

June 16-18, 2016

Attendee Registration Information

REGISTER ONLINE at <http://www.seaoa.org>



WE-KO-PA RESORT & CONFERENCE CENTER 10438 NORTH FORT MCDOWELL ROAD • SCOTTSDALE/FOUNTAIN HILLS, AZ 85264 PHONE: (480) 789-5300

**SEMINAR TOPICS (9.0 PROFESSIONAL DEVELOPMENT HOURS)**

**The Future of Structural Engineering**—Ashraf Habibullah, President/CEO, Computers and Structures, Inc.

**OdySEA Aquarium (Scottsdale, AZ)** — Daniel Van Cuyk, P.E., CTS Consulting Structural Engineers

**Steel Moment Frame Testing, How and Why?** - Erin Conaway, P.E.; SidePlate Systems

**Post-Tensioned Concrete Design** — Bryan Allred, S.E., Seneca Structural Engineering

**Design Considerations for Mid-Rise Wood Structures**—Terry Malone, P.E., S.E.

**3D Printed Structures: Challenges and Opportunities** — Caitlin T. Mueller, PhD, Massachusetts Institute of Technology

**Vibrations of Concrete Floors** — Mike Mota, PhD, PE, SECB, Concrete Reinforcing and Steel Institute

**Design of Shelf Angles for Masonry Veneers**—W. Mark McGinley, Ph. D PE, FASTM; University of Louisville, Arizona Masonry Guild

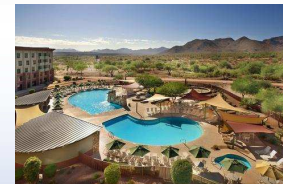
**2015 NDS Design Specification** — Michelle Kam-Biron, P.E., S.E., SECB

**Innovation in Lateral Force Resisting Systems: Viscous Dampers in Light Frame Wood Construction** — Jesse Karns, P.E., S.E. ; MiTek USA



- Exhibitor Trade Show and Welcome Reception

- SEAOA Excellence Awards



- Raffle Prizes for Attendees
- Commemorative Gift
- A Relaxing Resort Atmosphere

**SEAOA 50th Anniversary MAIN EVENT**

Sponsored by

**Ashraf Habibullah and Computers & Structures, Inc.**

Friday Evening June 17th, 6-9pm

Food, Entertainment and Honoring our History

*This event is included in the conference registration, however separate registration is available if you are not able to join us for the full conference (see website)*

STRUCTURAL ENGINEERS ASSOCIATION OF ARIZONA PO BOX 645 TEMPE, AZ 85280 Voicemail:602-492-6732 Email: [info@seaoa.org](mailto:info@seaoa.org)



# SEAOA 50th Anniversary Convention And Conference

June 16-18, 2016

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2016 REGISTRATION RATES				CONVENTION AND CONFERENCE SCHEDULE		
<b>Thursday Afternoon and Friday Sessions (9.0 PDHs)</b>	<b>Registration Period</b>	<b>Member Rates</b>	<b>Non-Member Rates</b>	<b>Thursday June 16th</b> 8:00 AM—12 Noon <i>Separate Registration Required</i> <b>Communication Skills For Engineers</b> (4.0 PDHs)	<b>Friday June 17th</b> 7:30am—Breakfast 8:00am—8:15am Opening Remarks/Housekeeping	<b>Friday Evening</b> (Separate registration available)
	Early Registration March 22nd—May 9th-May 12th	\$225	\$275	1:00 PM Convention Opening Remarks <b>1:30pm—5:00pm</b> Post-Tensioned Concrete Design <b>OR</b> Mid-Rise Wood Structures	8:15—11:45am Steel Moment Frame Testing <b>OR</b> Shelf Angles for Masonry Veneers	3:30—5:00pm <b>SPECIAL PRESENTATION</b> The Future Of Structural Engineering - Ashraf Habibullah
	Standard Registration May 13th — June 10th	\$275	\$325	Vibrations of Concrete Floors <b>OR</b> 2015 NDS Design Specification	<b>OR</b> OdySEA Aquarium Presentation	6:00-9:00pm <b>SEAOA 50th Anniversary MAIN EVENT</b> Sponsored by Computers and Structures, Inc. and Ashraf Habibullah
	Bring-A-Colleague Combo Rate May 13th—June 10th	\$225 Each Person	\$275 Each Person		11:45-1:30pm Lunch Presentation <b>SEAOA Excellence Awards Presentation</b>	
	LATE or Walk-In Registrations After June 10th		\$375		1:30pm-3:00pm 3D Printed Structures <b>OR</b> LFRS: Viscous Dampers in Wood	6:00—Complimentary Cocktail Hour ~6:30—Dinner Service ~7:30 Honoring SEAOA's Past ~8:00 Entertainment -To Be Announced
Students VALID ID REQUIRED Registrations through June 10th		\$25 (fee waived if sponsored by a Chapter)		3:00-3:30pm ATTENDEE RAFFLE	<b>Saturday Ethics Seminar 8am –12pm</b> Separate Registration	
Companion Registration Anytime		\$125				
<b>Thursday Morning Session (4.0 PDHs)</b>	Standard Registration Till June 10th LATE/Walk-In Registration After June 10th <i>Separate Registration on Website</i>	\$75 \$125	\$100 \$125	<b>5:00pm—7:30pm</b> Exhibitor Trade Show  <b>Minute-to-Win-It Competition</b> Watch our exhibitors and sponsors compete for your votes		
<b>Saturday Session (4.0 PDHs)</b>	Standard Registration Till June 10th LATE/Walk-In Registration After June 10th <i>Separate Registration on Website</i>	\$125 \$200	\$150 \$200			

Join SEAOA now for member rates and membership through July 2017  
Email us directly for these offers at [info@seaoa.org](mailto:info@seaoa.org)

**\$99 Hotel Rate**

Rate Valid June 13th to June 20th

Book by phone using code **SEAOA** or through the link below to received our guaranteed lowest negotiated rate with no resort fees:

<https://bookings.hotelier.com/bookings.jsp?groupID=1550189&hotelID=96432>

BOOK EARLY Rooms are limited and this rate may not be available after May 16th.

STRUCTURAL ENGINEERS ASSOCIATION OF ARIZONA PO BOX 645 TEMPE, AZ 85280 Voicemail:602-492-6732 Email: [info@seaoa.org](mailto:info@seaoa.org)

## ASCE Phoenix Branch News

*Rob Lyons, PE, CFM, Vice President ASCE Phoenix Branch*

Here is a brief update on what the Phoenix Branch is providing to our members and some upcoming events you won't want to miss.



### LAST MONTH....

#### **May Luncheon**

ASCE members were brought up to date with the latest economic forecast data provided by Jim Rounds. Mr. Rounds presented the latest National, State, and local economic data with predictions of how it will affect the Civil Engineering business.

**IN COMING MONTHS** - Register at:

<http://www.azsce.org/branches-technical-groups/branches/phoenix-branch/>

**June 8, 2016** - Arizona Water Initiative: Gerry Walker, the Deputy Assistant Director for Water Planning of ADWR will provide information leading up to the Arizona Water Initiative in 2015 and will discuss the two tracks of the initiative: the Governor's Water Augmentation Council and the Planning Area Process.

Additionally an overview and update of the council will be provided with an updated of the Planning Area Process and the results from a recent drought workshop.

**July, 2016** - Happy Hour Networking Mixer. Details to come soon.

ASCE Phoenix Branch Luncheons take place the second Wednesday of the month, Jan to June and Aug to Oct. at 11:30 a.m. to 1:00 p.m. The luncheons are held at Dave & Busters, Tempe Marketplace, 2000 E. Rio Salado Parkway, Tempe, AZ 85281.

**Volunteers Needed!** The Phoenix Branch is looking for candidates for various volunteer opportunities on the board. This is an excellent opportunity to give back to the civil engineering community and for career and personal growth. Please contact any board member if you're interested or know someone who might be a good fit.

**Thank you for your membership and participation! ~ The ASCE Phoenix Branch Board**



## TEP Technical Tour

*Melanie Rice, Southern Arizona Branch Community Chair and Past President*

On January 29, members of the ASCE Southern Arizona Branch toured Tucson Electric Power's (TEP) Sundt Power Generating Station on Irvington Road in Tucson. A subsidiary of Fortis, Inc., TEP provides electric service to more than 414,000 customers in southern Arizona, utilizing a mix of fuel sources such as natural gas, coal, wind, solar, and other renewable resources.

Conrad Spencer, TEP's Director of Operations, led a tour of the plant, and gave a brief overview of power generation, transmission, and distribution. The Sundt station last used coal in August 2015 and now relies primarily on natural gas, supplemented by renewable landfill gas and a unique "solar boost" system. While on the tour, ASCE members had a rare opportunity to see one of its turbine units torn down for maintenance.



## U of A ASCE vs SAB YMF Softball Game & BBQ

### *Southern Arizona Branch YMF*

The Ashton Company will be leading a tech tour of the Kolb Road extension on Saturday, June 4th starting at 8:00 AM.

Please RSVP by June 1st at the link below. Space is limited! More information to follow.

<http://ascsabymf.weebly.com/tech-tours>

June's YMF Social will be held on Thursday, **June 2nd** at **6 PM** at **BJ's Brewhouse** at the Oracle/Wetmore location. Ask for YMF!

Appetizers and non-alcoholic drinks will be provided!

## Southern Arizona Branch ASCE June Luncheon

### *Southern Arizona Branch*

**ASCE June Luncheon:**  
**Wednesday, June 8, 2016**

**11:30 - Noon: Registration &  
Buffet Lunch**

**Noon: Announcements**

**12:10: Featured Speaker  
Presentation**

**12:55: Scholarship Raffle Drawing**

**Location:**

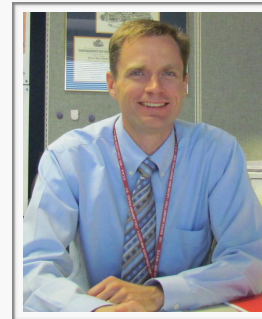
**Hotel Tucson City Center  
475 N. Granada Avenue  
(St. Mary's and Granada, SW  
Corner)**

**ASCE July Luncheon:**

**Wednesday, July 13, 2016**

**Speaker TBA**

**UofA framed poster prize  
sponsored by Aerotech Mapping**



**Speaker: Mike Smejkal**

**Senior Director of Development Services for the Tucson  
Airport Authority Planning and Development Group**

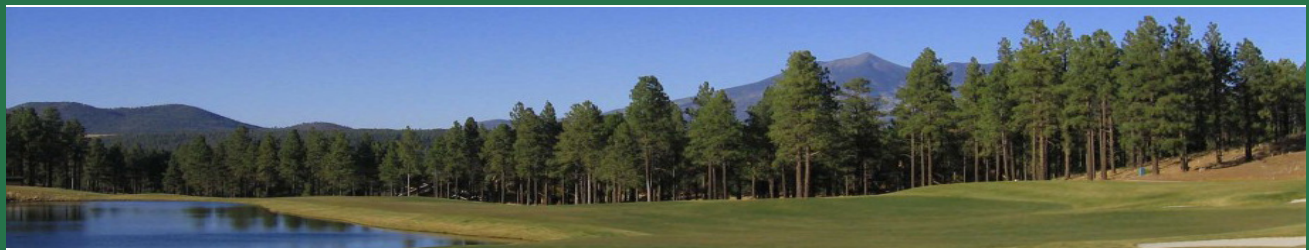
Mike will be providing a status update on the TAA's planning, environmental and construction projects at Tucson International Airport and Ryan Airfield.

To RSVP, please go to: <http://www.azsce.org/branches-technical-groups/branches/southern-arizona-branch/>

Registration closes midnight before the event.

Please be aware that if you do not register you will be charged \$5.00 extra for being a walk-in.

\$50.00 gift card raffle prize sponsored by Terracon.



## Northern Arizona Branch ASCE Golf Tournament

Proceeds support NAU Student Chapter of ASCE

### Flagstaff Ranch Golf Course

**Monday, October 3, 2016**

Check-in 10:30am-12:00pm with Lunch; Shotgun Start 12:00pm; Scramble format  
Post-game dinner to follow with prizes awarded to top teams

COMPANY/TEAM NAME: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

Please enter golfer name(s) and accompanying handicap below if known (neither is required for registration)

\_\_\_\_\_  
Player 1 Handicap

\_\_\_\_\_  
Player 2 Handicap

\_\_\_\_\_  
Player 3 Handicap

\_\_\_\_\_  
Player 4 Handicap

	By 9/16	9/17 or later
<b>Individual</b>	\$125	\$140
<b>Foursome</b> <i>(save \$40!)</i>	\$460	\$520

Fee covers green fees, cart, range, yardage book, drinks, locker room service, and professional service.  
\*Driving and putting practice will be available prior to start of tournament.

Please make checks payable to: ASCE Northern Arizona Branch  
c/o Shephard-Wesnitzer, Inc., ATTN: Taylor Layland,  
110 West Dale Avenue, Flagstaff, AZ 86001



**Questions?**

NAB.ASCE@gmail.com

Please contact Flagstaff Ranch for dress code questions

<http://www.flagstaffranch.com>

*Sorry no refunds for foul weather*







## Northern Arizona Branch ASCE Golf Tournament October 3, 2016

<p><b>Tournament Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome tournament registration included</li> <li>• Logo displayed on tournament flier</li> <li>• Logo displayed at registration table</li> </ul>	<b>\$1,200</b>
<p><b>Closest to Pin Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo displayed at tee box</li> <li>• Logo displayed on tape measure</li> <li>• Logo displayed at registration table</li> </ul>	<b>\$1,000</b>
<p><b>Longest Drive Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo displayed at tee box</li> <li>• Logo displayed on longest drive flag</li> <li>• Logo displayed at registration table</li> </ul>	<b>\$1,000</b>
<p><b>Cart Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo on balls (1 sleeve per player)</li> <li>• Logo displayed at registration table</li> <li>• Logo displayed on scorecards</li> <li>• Company card/brochure placed in cart</li> </ul>	<b>\$1,000</b>
<p><b>Survival Kit Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo on bag of mystery goodies (provided @ registration)</li> <li>• Logo displayed at registration table</li> <li>• Company card/brochure included in bag</li> </ul>	<b>\$1,000</b>
<p><b>Reception Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo displayed at registration table</li> <li>• Logo displayed at dinner banquet</li> </ul>	<b>\$1,000</b>
<p><b>Lunch Sponsor</b></p> <ul style="list-style-type: none"> <li>• Foursome registration included</li> <li>• Logo displayed at registration table</li> <li>• Logo displayed at lunch table</li> </ul>	<b>\$1,000</b>
<p><b>Hole Sponsor</b></p> <ul style="list-style-type: none"> <li>• Logo displayed at registration table</li> <li>• Logo displayed at tee box</li> </ul>	<b>\$250</b>



**YES!** Please count on our support to make the NAU ASCE Golf Tournament a great success!

**Company Name:** \_\_\_\_\_

**Contact Name:** \_\_\_\_\_

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

\_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_ **Website:** \_\_\_\_\_

<u>Sponsor Level</u>	<u>Amount</u>
Tournament	\$1,200
Closest to Pin	\$1,000
Longest Drive	\$1,000
Cart	\$1,000
Reception	\$1,000
Survival Kit	\$1,000
Lunch	\$1,000
Hole	\$250

**Sponsorship Level \$** \_\_\_\_\_

**We need your company logo for ALL sponsorships. Please send a high-quality image file to:**  
[NAB.ASCE@gmail.com](mailto:NAB.ASCE@gmail.com)

ASCE is a non-profit organization so your contribution is tax-deductible (above the cost of golf if foursome is included). All proceeds directly support NAU Civil and Environmental Engineering students.

Checks can be made payable to: ASCE Northern Arizona Branch  
 Please remit payment to: Shephard-Wesnitzer, Inc., attn: Taylor Layland  
 110 West Dale Avenue, Flagstaff, AZ 86001

**Questions?** [NAB.ASCE@gmail.com](mailto:NAB.ASCE@gmail.com)

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## President's Message

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*Continued from Page 1*

At this time they are actively seeking event sponsors for support. Refer to the attached brochure to this month's newsletter for additional information.

With our degrading infrastructure, have you taken the time to become a Key Contact for ASCE? Or rather, have you become involved in talking with your local government and key decision makers? Don't forget to check out our website and review the 2015 Report Card for Arizona's Infrastructure again so you are knowledgeable and ready to discuss when the opportunities present themselves. The future of our industry is looking fair, with lots of challenges in the near future. You play a key part as an advocate for the profession and our infrastructure planning; don't let this opportunity go to waste.

As a quick reminder, there are a number of member transitions taking place throughout the state. Be sure to keep your contact information update ASCE and your respective Branch, YMF, and or Student Chapter.

### Section Actions

The following is a snapshot of the current and future actions for the Section Board:

- The Section met on May 10th and reviewed the request from ASCE National with respect to the 2017 Section Dues. After a review of the responses received and Section budget a unanimous voted was cast to increase the 2017 Section Dues.
  - As a result all active rates have been increased by \$5
- Upcoming Region 8 Meetings are as follows:
  - Fall Assembly meeting in Boise ID, August 26th and 27th.
  - Spring WSBL Los Angeles, January 12th through the 14th
  - Fall 2017 undetermined at this time
  - Spring 2017 Las Vegas

### Save the Date

Our next Section meeting is scheduled for Tuesday, June 14th at HDR Engineering. This meeting will be located at 3200 E. Camelback Road, Suite 350, Phoenix, Arizona 85018. Look for the Great Basin Conference Room.

This event will held from 6pm and extend to approximately 8pm.

Don't forget those subsidiary reports are due by June 13th to both:

Jeff Swan: [jswan@npgcable.com](mailto:jswan@npgcable.com)

Mark Fountain: [mark.fountain@hdrinc.com](mailto:mark.fountain@hdrinc.com)