



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
March 2016

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



Hello to all. I hope you had a chance to enjoy some E-Week events during the week of February 21-27. Although it is a National Society of Professional Engineers event, the ASCE Arizona Section, Branches, YMFs and University Chapters all support E-Week. I was able to participate in several local office events, which engaged staff in a fun way to solve simple engineering challenges in a competitive and yet friendly manner. In addition, I had the privilege of attending the Phoenix Branch Awards Banquet on February 25th at the Tempe Center for the Arts. The event included a fantastic speaker, Mr. David Bluestein, who spoke about the discovery of his love for engineering, world travels from the point of an engineer, career highlights, and learning that complex problems are generally complicated further by people issues. Mr. Bluestein offered personal advices to attendees, sharing how he envisions showing his pride in engineering while becoming successful at the same time!

A big thank you goes out to every member of ASCE who participated, by any means, in supporting this year's E-Week events... *Continued on Page 9*

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Calendar of Events
March

- 2
Yuma Branch Luncheon
- 3
Southern Arizona Branch Luncheon
- 8
Section Board Meeting
- 9
Phoenix Branch Luncheon
Southern Arizona Branch Luncheon
- 10
Northern Arizona Branch Luncheon

ASCE-AZWater March Luncheon

Southern Arizona Branch

Thursday, March 3, 2016

11:30 AM - 1:00 PM

Tucson City Center InnSuites

475 N Granada Ave, Tucson

Welcome ASCE-AZWater Members and Guests!


This month's featured speaker is:

Chuck Huckelberry

Pima County Administrator

Mr. Huckelberry will be presenting on the Public Works outlook in Southern Arizona including economic and social impacts.

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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.

Regions 8 and 9 Workshop in Anchorage, Alaska

Deirdre W. Brosniban, PE, President, ASCE Southern Arizona Branch

This past February 22nd and 23rd the Regions 8 & 9 Workshop for Section and Branch Leaders, Younger Member Council, and Student Chapter Leaders was held in Anchorage. Yes, that is Anchorage, Alaska in the winter. Days hovered at or below freezing while the evenings dipped into the low teens. Yet we were prepared, with layers, hats, hand warmers and hot coffee/chocolate.

The Southern Arizona Branch was able to send three delegates and our Younger Members Forum was able to send five delegates. On the Thursday prior to the start of the conference, the Alaska Section planned two excellent excursions, first to the Alaska Wildlife Conservation Center Tour and then to the Kincaid Chalet Park for sledding and local craft beer and Moose's Tooth Pizza. On the wildlife tour we saw brown bears, musk ox, bison, deer, lynx, grey wolf and a bald eagle. At the sledding social many of us relived our childhood memories of racing sleds and making the longest multi-Section sled chain. The following two days of the conference had some excellent sessions; in particular our group enjoyed the talks on Emotional Intelligence, Conflict Management, and ASCE Resources. Aptly timed was one of the breakout sessions on Disaster Readiness just prior to that evening's earthquake in Anchorage. Luckily the damage in Anchorage was minor. Everyone however made it out safe and sound, minus one sledding injury, and all without frostbite back to warm and sunny Arizona.

The 2017 conference will be a warmer conference as well, as it is being hosted in downtown Los Angeles, California.



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....

February Luncheon

The Phoenix Branch joined forces with the ASCE Transportation Committee to host a great presentation by Jay Yenerich of Valley METRO with his presentation "Program Update and Technologies at METRO". This presentation was held at Dave and Busters on February 10, 2016 and over 60 ASCE Members attended.

Four new ASCE Life Members were recognized at the luncheon and four students were provided with \$400 Life Member Scholarships. The four new ASCE Life Members recognized were:

- Kent Dibble, P.E., RLS, M.ASCE, Dibble Engineering, Inc.
- Bruce MacIlroy, P.E., M.ASCE, Western Technologies
- Jim Lemon, P.E., RLS, M.ASCE, Integra Consulting
- Paul Porell, P.E., Roundabouts & Traffic Engineering (RTE)



Other recipients not present at the luncheon include:

- Frank Adams
- Peter Fleming
- David Mahaffay
- Glen Compton
- Robert Edwards
- Volkmar Reichert

- Richard Hoppe
- Michael Mamlouk
- Thomas Allen Gookin
- Elliot Silverston
- Darrel Wood

The scholarship recipients were:

- Emily Ford, ASU
- Victory Flys, ASU
- Simon Shuster, ASU
- Tyler Gafke, ASU

Congratulations Life Members and Scholarship Recipients!!

IN COMING MONTHS - Register at:

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

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Southern Arizona Branch Volunteers at the Community Food Bank

Jose Aguilar, EIT, ENV SP, ASCE Southern Arizona Branch YMF



On January 30th a group of ASCE members made an impact to help end hunger in our region at our local Community Food Bank of Southern Arizona. These members volunteered their Saturday morning to get their workout done by assembling thousands of bags filled with produce that will end up in the hands of families in need. While some volunteers were placing the produce inside the bags others were restocking the boxes to keep the assembly line moving non-stop. Without the help of volunteers like these, the Community Food Bank would not be able to help as many families as they do. Thanks to their help, in that morning alone, 28 tons of produce was packaged which will help 4,650 families. Great job!

ASCE Phoenix Branch News

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March 9, 2016 - Carlos Lopez with ADOT's Multimodal Planning Division - Major Projects Group will be presenting the latest updates to the Arizona Passenger Rail Corridor Study: Tucson to Phoenix, the first implementation of the plan.

April 13, 2016 - William Wiley, the Chief Engineer/General Manager of the Flood Control District of Maricopa County will be providing an update to FCDMC programs, planning, design, and construction projects.

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.

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

Discover Engineers Week 2016 in Southern Arizona

Louis Romero, PE, President-Elect, ASCE Southern Arizona Branch

As president-elect of the ASCE Southern AZ Branch, I had the privilege in serving as the planning committee chair for Discover Engineers Week 2016 in Southern Arizona. Each year, the Engineers Week (E-Week) planning committee includes members from the ASCE Southern Arizona Branch (SAB), the Southern Arizona Institute for Transportation Engineers (SAITE), the Society of American Military Engineers (SAME), Society of Design Administration (SDA), Advancing Women in Transportation (WTS), National Society of Professional Engineers (NSPE), ASCE Younger Members Forum (YMF) and the University of Arizona Society of Civil Engineers (UA-SCE). This committee has been working hard since October to organize events for Engineers Week 2016 that will:

- Inspire youth and inform the public about the need for engineers; and
- Celebrate the engineers and educators who make a world of difference.

This year we tried something new and decided to kickoff E-Week with a kickball social on Saturday February 6th at the Golf Links Sports Complex. About 10 people showed up for a game and lots of food, fun and refreshments. Thank you to Marlo Abramowitz (ASCE-SAB Treasurer) for organizing this event.



The Discover Engineering at the Mall event is an annual event to inspire youth and inform the public about the need for engineers. This year it was located at the Foothills Mall on Saturday February 20th and included 10 different hands-on STEM activities for elementary school kids. New activities included the Aquilibrium water system competition and making "concrete" cookies. Other activities included making "asphalt" cookies and the Lego challenge. A huge THANK YOU to Chelsi Jackson (ASCE member) who took the lead in organizing this event and also to Deirdre Brosnihan (ASCE-SAB President) who assisted her.

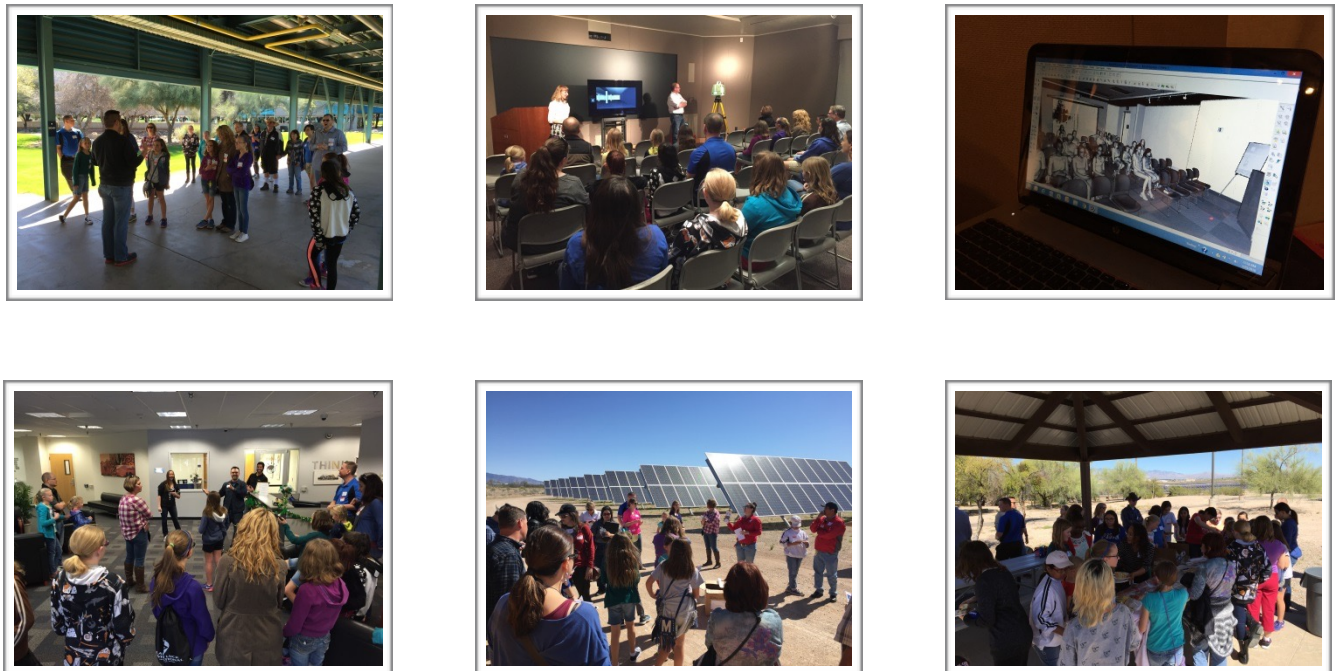


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Our 4th annual celebration of Girl Day on February 25th saw about 40 young girls and their parents attend a technical tour at the U of A Tech Park campus at I-10 and Rita Road. This tour had them explore the campus "spine" walkways where all utilities lines are housed above-ground and through the top-secret testing labs of IBM by a few of their engineers. Vail School District sponsored a bus tour of Tucson Electric Power's onsite solar power facility called the "Solar Zone". The day also included a presentation by Darling Geomatics of 3D scanning technologies and a demonstration of a Leica 3D scanner to the young girls. The tour concluded with a well-earned Eegee's lunch sponsored by the UA Tech Park. A huge thank you to Lisa Roberts (WTS) who worked with engineers from IBM and Oracle at the U of A Tech Park to organize this event. Also, thank you to Vanessa Casteneda, Michelle Frandsen, Peter Loya, Mike Hernandez and Heidi Lasham for volunteering to help at the event.



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The Southern Arizona Engineers Week Awards Banquet celebrates the engineers and educators who make a world of difference in Southern Arizona. This event was held on Tuesday, February 23rd at the Hilton Tucson East. Cocktail hour featured appetizers, live music by Oliverio and a photo fun booth by Daniel Yu Imaging. This year's featured speaker was 17th Surgeon General of the United States and Distinguished Professor of the U of A, Richard H. Carmona, M.D., M.P.H. FACS, who shared his inspirational life story. During the banquet, we recognized all nominees for Southern Arizona Educator of the Year (Sandy Merz & Enrique Santa Cruz), Young Engineer of the Year (Deirdre Brosnihan, Sean Samsel, and Kathryn Skinner) and Engineer of the Year (William Dupee, Andy McGovern, Steven Pageau, Claudia Perchinelli, and David Tapia), most of who attended. Congratulations to the 2016 award recipients Enrique Santa Cruz, Sean Samsel and Claudia Perchinelli. It was my pleasure to emcee the banquet activities and auction off this year's autographed U of A men's basketball for the ASCE-SAB civil engineering scholarship fund. Congratulations to Mark Taylor of Westland Resources who had the winning bid. Thank you to our corporate sponsors AECOM and Southwest Gas, reception sponsors Rick Engineering and Stantec, and our smiles sponsor Terracon. Also, a huge thank you to Tami Griffin (SDA) and Deirdre Brosnihan (ASCE-President) for all your hard work in making the banquet great.



A huge thank you to the E-week planning committee members who worked hard to plan and organize the events for Discover Engineers Week 2016 in Southern Arizona:
 Deirdre Brosnihan, Marlo Abramowitz, David Tapia, Buddy Evers, Chelsi Jackson, Ryan Badilla, Abby Davidson, Liz Macias, Lisa Roberts, Tami Griffin, Claudia Hunt, Randy Harris, Jim Wright, and Jay Van Echo.

President's Message

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I am extremely proud to see the dedication of our members to raise awareness of our profession, celebrate the difference we make, and increase the public dialogue about what we do. Your efforts are extremely important and play a key role in the continued commitment of advancing our profession.

Section Actions

As many of you may be aware, the Arizona Section with support from the Society has been extremely busy this past month. Several members across all levels of the organization have sprung into action as a result of the proposed House Bill (HB) HB2613. This bill, as originally proposed, was aimed at deregulating both the geologists and landscape architect professionals within the State of Arizona. Members of ASCE along with several other professional groups were in attendance at the House Commerce Committee hearing on Wednesday, February 17th at 9:00 am. At this event, I spoke to the Chairman and Members of the Committee regarding our stance against the bill as proposed. Efforts since that date have removed the identification of landscape architects from the bill for deregulation, however at this time geologists are still identified. The following points were shared with the House to raise awareness on the matter:

- Downgrading the professional registration of geologists, landscape architects, or other professions could jeopardize Arizona's ability to obtain federal transportation funding. Design and construction observation of federally-funded transportation projects must be performed by registered design professionals. Federally-funded aviation and environmental projects also require the use of registered professionals.
- The Department of Administration, in a generic occupational licensing division, cannot replicate the Board's current structure, deep technical skills, and processes without significant expense to the taxpayers of Arizona.
- Creating a professional licensing program that is unlike that in any other state will only harm Arizonans' economic interests and undermine Arizona's competitiveness.
- Converting any profession to a title-only registration does nothing to protect the public. There is no "national bureau of registration or certification"—as stated in HB 2613—that licenses geologists, landscape architects or any of the other professionals regulated by the Board. Allowing anyone with an academic degree or certificate to claim "professional" status does not assure that registrants are qualified to take responsibility of design or construction.
- HB 2613 hurts the ability of registered professionals based or licensed in Arizona to do business in other states or countries. By reducing professional registration to title-only status, HB 2613 prevents Arizona registrants from getting reciprocity or comity licensure in other states.
- ASCE endorses, supports, and promotes professional registration of geologists and landscape architects to protect and enhance the health, safety and welfare of the public. Licensure assures the public that the practice of registered professionals is undertaken in a manner consistent with applicable codes of professional conduct. The licensure requirements of education, examination, experience and continuing professional development are intended to achieve that purpose.

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Professionals across the state, with support from the Society of ASCE, are continuing to be proactive in raising awareness on these matters. Members of ASCE will be meeting with legislators for a drive-in event on Wednesday, March 02, 2016 from 10 am - 2 pm, at which time they will meet with both Arizona District Representatives and Senators to provide information related to the 2015 Arizona Infrastructure Report Card and issues pertaining HB2613.

House Bill 2613

House Bill 2613 (reference title: regulatory boards; licensing; revisions). This is a 91-page bill that would eliminate licensing of Assayers, Geologists, and Landscape Architects; plus, potentially move the State Board of Technical Registration under the Department of Administration. HB2613 was filed for the stated purpose of reducing the size and expense of Arizona state government by restructuring non-health professional licensing boards and initiating a legislative Study Committee to evaluate the transfer of all regulatory boards covered by Title 32, Ariz.Rev.Stat., (except health-related boards) to a new licensing and regulatory division created in the Department of Administration. BTR also enforces rules of professional conduct requiring technical competence and ethical business practices. BTR's vital protective function cannot be duplicated by social media rankings, word of mouth, or lawsuits filed after the fact by persons injured by negligent or unethical practice. The Department of Administration does not have the technical resources or skills to regulate the professional conduct of registered professionals. **Request to stop HB2613 as it puts public health, safety and welfare in Arizona at grave risk by jettisoning an efficient professional regulatory program that does not require any general fund appropriations.** Converting any profession to title-only registration does not protect the public. There is no "national bureau of registration or certification"—as stated in HB2613. **Allowing someone with an academic degree or certificate to claim "professional" status does not assure that registrants are qualified to take responsible charge of design or construction.**

Save the Date

Our next Section meeting is scheduled for Wednesday, March 16th in Yuma, Arizona! This meeting will be located at the Yuma City Hall, One City Plaza, Yuma, AZ 85364. The meeting begins at 12:00 pm; please feel free to join us as we support the rollout of the Arizona Infrastructure Report Card for Southwest Arizona. A snapshot of the event schedule is provided as:

- Arrive at City Hall: 11:30 AM
- Meeting / Presentation to begin at 12:00 Noon
- Event duration planned to extend up to 2:30 PM

Please contact [Mark Fountain](#) by Tuesday, March 15th if you would like to carpool to this event.

Don't forget those subsidiary reports are due in advance!

MATHCOUNTS®

Southern Arizona Chapter Benefit Golf Tournament

Title Sponsor:



Friday, May 20th, 2016

Dell Urich Golf Course **11:00 am Registration**
(Broadway & Alvernon) **11:45 am "Mob" Putting Challenge**
Tucson, Arizona **12:00 pm Shotgun Start**



Four-Person Scramble
(Single Players Welcome)



Entry Fee of \$125
per person includes:

- Green Fees, Golf Cart, Range Balls & Box Lunch
- Win a 2016 Buick Verano with a Hole-in-One! Sponsored by Royal Buick
- "Mob" Putting Challenge - \$500 Cash Pot
- Post-Game Reception

Be sure to stay for the Post-Game Reception!

Includes:

- Cocktails
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- Raffle Prizes include an autographed UA Basketball
- Awards & Trophies

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MATHCOUNTS is a nationwide math enrichment, coaching and competition program that promotes math achievement and inspires a passion for mathematics in U.S. middle school students. Currently in its 33rd year, MATHCOUNTS is one of the country's largest and most successful education partnerships involving volunteers, educators, industry sponsors and students.

The MATHCOUNTS program consists of two parts - the National Math Club and the MATHCOUNTS Competition Series. The National Math Club provides the structure and activities needed to encourage the formation of math clubs within schools. It's designed to increase enthusiasm for math and engage students using a variety of math activities.

The MATHCOUNTS Competition Series promotes mathematics achievement through a series of engaging "bee" style contests. Like the Spelling Bee, MATHCOUNTS is a program where students progress from the School Competition to the Local/Chapter Competition to the State Competition and finally to the National Competition.

Proceeds from this golf tournament fund the MATHCOUNTS Southern Arizona Chapter Competition in February 2017 and the ASCE-SAB Scholarship Fund. Thanks to this generous donation provided by ASCE, MATHCOUNTS is able to provide our local middle school students with the foundation for success in science, technology, engineering, and mathematics careers. Thank you for your support!



[Click Here to Register Online](#)

MATHCOUNTS 2016 Golf Tournament Mail-in Registration/Sponsorship Form

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Team Name _____

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Player #1: _____

Player #2: _____

Player #3: _____

Player #4: _____

Please make checks payable to:
ASCE-SAB

Send Completed Form and
Check by May 13th to:
c/o Tim Rhine
Kimley Horn
333 E. Wetmore Rd., Suite 280
Tucson, AZ 85705

Questions? Contact Tim at:
Phone: (520) 352-8630
E-mail: tim.rhine@kimley-horn.com

<input type="checkbox"/>	# of Players at	\$125 ea.
<input checked="" type="checkbox"/>	Sponsorship Opportunities:	
<input type="checkbox"/>	Tee Box	\$150
<input type="checkbox"/>	"Mob" Putting Challenge Sponsor	\$500
<input type="checkbox"/>	Hole Contest Sponsor	\$250
<input type="checkbox"/>	Buick Verano Hole-in-One	\$500
<input type="checkbox"/>	Lunch (2 available)	\$500
<input type="checkbox"/>	Post-Game Reception (2 available)	\$500
<input type="checkbox"/>	Title Sponsor (includes autosome)	\$1,500

Total Enclosed:

I would like to donate a raffle prize or goody bag item. Please contact me.