

ASCE ARIZONA SECTION

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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

*Mark Lamer, PE, MEng, M.ASCE,
Arizona Section President*



The ASCE Code of Ethics Canon One Guideline E States "Engineers should seek opportunities to be of constructive service in civic affairs and work for the advancement of the safety, health and well-being of their communities, and the protection of the environment through the practice of sustainable development." Right there in our code of ethics, it states that as part of our duty to "hold safety paramount" we have an ethical responsibility to be engaged in the development of public policy.

We spent several years in college getting educated on the technical background for our work, and many, many more years building on that education so we could become professionally competent in our areas of technical expertise. Unfortunately, most of our elected officials do not have that same level of experience and therefore may not be able to make the best decisions for our infrastructure. We can, however, provide technical information, and advice, to the best of our ability, which can be used to educate our public office holders on public policy so they can make informed decisions. It is easy for us to associate public policy work with funding, but it goes way beyond that. It includes: project approvals, procurement process rules, professional licensure, and codes and statutes created for public health and safety.

Whether your area of expertise is site design, bridges, airports, waste disposal, water treatment, roadways, water distribution systems, surveying, or foundation design; you fill the role of being responsible for the safety of the public...

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Calendar of Events March

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- PBYMF NAU Resume Workshop**
- 2
- ASCE & AZ Water Joint Luncheon**
- SABYMF March Social**
- 4
- SABYMF Dream Big Movie Premiere**
- 8
- Southern Arizona Branch Luncheon**
- 9
- Northern Arizona Branch Luncheon**
- 13-16
- ASCE Legislative Fly-In**
- 14
- Yuma Branch Luncheon**
- 30
- ASCE Arizona Legislative Drive-In**

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...and for bettering the quality of life for the public. Therefore, we all need to be aware of the decisions being made in government that affect the results of our analysis' and designs for these facilities, ultimately affecting our ability to ensure we hold the public's health and safety paramount. As civil engineers, we should be informing our public officials and assisting in the creation of technically-informed public policy, and as a bonus, we may even enhance the public image of civil engineers, and the work we do serving the public.

It is easier to get involved than you think; no matter where you are in your career you can get involved and make a difference. The easiest way to get involved is to become an ASCE Key Contact. When you sign up for this you will be provided periodic updates about policy that affect our profession, and your action can help influence this policy. The best thing about being a Key Contact is that the amount of time you spend is up to you. To sign up a Key Contact through ASCE visit (<http://www.asce.org/keycontacts/>) and have an active email address. The rest is up to you.

Taking it a step further you can share the findings in the Arizona Section Infrastructure Report Card (<http://www.infrastructurereportcard.org/arizona/arizona-overview/>). The findings in the new 2017 ASCE Infrastructure Report card will be released March 9th. In my opinion, the best chance to affect public policy is to meet with public officials face to face. This can be done on a local level in your communities, participating in the Legislative Fly-In which happens each February or at the state level by participating in our Legislative Drive-In which will happen March 30th. If you would like to participate in our Arizona Legislative Drive-In March 30th, please contact me and I can provide more information to you.

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Southern Arizona Branch Community Outreach

Deirdre Brosniban, PE, M.ASCE

On February 16th the Southern Arizona Branch hosted a technical tour of the Pantano Wash bank protection and river park project from Tanque Verde Road to Fort Lowell Park. The Pantano Wash project is being constructed by Borderland Construction, and is anticipated to cost \$5.5 million. The scheduled completion of the project is October 2017. The technical tour chairperson, Bryan Reed, P.E. with SAECO, provided lunch as Pima County Regional Flood Control District Project Manager (ASCE member and Past President), Larry Robison, P.E., gave a general project overview and safety talk with lead inspector Eddie Garcia (Psomas). Then everyone loaded into vehicles to tour the site. At the first stop, were the excavated toe trenches on the downstream end of the project to give the members a sense of scale, and just how far below ground the soil cement will be placed in a toe down. Then, it was off to the soil cement plant where members saw soil cement production including a close-up look at how the plant operates from the control room. After learning more about how soil cement is produced, the group toured the upstream end of the project where soil cement was being placed.



The tour group gathering to look down into the soil cement bank protection toe trench as Larry Robison, P.E. (Project Manager) and Heidi Lasham, P.E. (Psomas, Resident Engineer) discuss how the soil cement process starts.



The view from the command center as plant operator, Jesse Bennet (Borderland Construction) explained the process and interface.

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Pantano Ph 3 Soil cement plant

Soil Cement plant photo with key components called out.

ASCE Southern Arizona Branch

ASCE & AZ Water March Joint Luncheon
Thursday March 2, 2017 - 11:30am to 1:00pm
Hotel Tucson City Center

Welcome ASCE Members and Guests!

This month's featured speaker is:

Michael Ortega of the City of Tucson

Michael will give a general update on the City of Tucson

Vist <https://events.r20.constantcontact.com/register/eventReg?oeidk=a07edty17qzf49739b0&c=&ch=> to register.



Southern Arizona Branch YMF News and Updates

Southern Arizona Branch YMF



ASCE is hosting a PVC Pipe Bridge Competition and we need your help!

Come out and show your support for the future civil engineers out there! Volunteers will receive a free T-Shirt and a lunch the day of the competition.

Saturday April 22nd, 2017 @ University of Arizona

For more information and if you are interested please sign up by visiting

<http://ascsabymf.weebly.com/mesa.html>



PE REVIEW COURSE

For the April 21st and October 27th, 2017 Exams

Sessions will be held on Tuesdays and Thursdays from 6:30 PM - 9:30 PM

Sessions will be in February and March

(Calendar will be posted soon)

8 Sessions total covering: Structural Analysis & Design, Soils & Materials, Earth Retaining Structures, Hydrology, Hydraulics, Water Supply & Waste Water Treatment, Construction, and Transportation

\$200 for all Sessions

\$50 each

Please register by visiting

<http://ascsabymf.weebly.com/pe-review.html>

DREAM BIG Movie Premiere

Come join us March **this Saturday** to enjoy the wonders of civil engineering on the big screen!

Shows at 4:00 PM & 5:00 PM ; Only **\$3** per ticket!

When: Saturday, March 4th from 4:00 PM to 6:00 PM

Where: Harkins Arizona Pavilions 12, 5755 N Business Park Dr. Tucson, AZ 85743

RSVP: **DREAM BIG** Tickets <http://ascsabymf.weebly.com/dream-big.html> by this **Friday**, March 3rd at **noon**!

Contact Jose Aguilar (jose.aguilar@psomas.com) for more information.

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PE Review

YMF will be coordinating a PE Review for Spring and Fall 2017 Exams!

Registration deadline is Wednesday, *March 8th*!

Register *HERE! <http://ascesabymf.weebly.com/pe-review.html>!

Social

March's YMF Social will be on *Thursday*, March 2nd at *6 PM* at *Frog & Firkin*.

Pizza and non-alcoholic drinks will be provided. Parking at

Tyndall Garage will be validated.

We look forward to seeing you there!

<http://www.frogandfirkin.com/>

Phoenix Branch YMF News and Notes

Nicolai Oleden, P.E., Phoenix Branch YMF President

NAU Resume Workshop, Wednesday March 1st

NAU Mock Interviews - We have an opportunity to serve our neighboring Northern Arizona University with Resume Reviews and Mock Interviews! We will plan to head up early in the afternoon on Wednesday, March 1st and return later that evening. Please contact Nicolai Oleden, noliden@ethosengineers.com, if interested in volunteering.

YMF Spring Technical Tour - Hoover Dam

Hoover Dam Tour: Phx YMF is preparing to plan a tour of the Hoover Dam followed by a joint Happy Hour with the Las Vegas YMF! Our hope is to go on the tour in April or May. We still have many details to finalize, however, we would like to know how many of our members would be interested in this event. We will tour the Dam, meet with LVYMF in Las Vegas and return the following day. Our goal is to keep the cost under \$100/person, which will cover travel, tour, and lodging. If you are interested in this event please contact Nicolai Oleden, noliden@ethosengineers.com, and we will provide you with more information as it becomes available.