

# PIPELINE MONTHLY



## 2019-2021 Chapter Officers

President  
Grant Schaffer  
[gschaffer@harriscompany.com](mailto:gschaffer@harriscompany.com)

V.P. Technical  
Anthony Wikum  
[awikum@dawsonco.com](mailto:awikum@dawsonco.com)

V.P. Legislative  
Juan Contreras  
[jacontreras1964@yahoo.com](mailto:jacontreras1964@yahoo.com)

V.P. Membership  
Chrissy Hamm  
[chrissyk@specsales.com](mailto:chrissyk@specsales.com)

Treasurer  
Rod Koepke  
[rkoepke@syska.com](mailto:rkoepke@syska.com)

Administrative Secretary  
Liza Cusimano  
[lcusimano@treisd.com](mailto:lcusimano@treisd.com)

Corresponding Secretary  
Anthony Simpson  
[asimpson@delcosales.com](mailto:asimpson@delcosales.com)

ASPE SD Affiliate  
Martin Trim  
[Martin@barrettump.com](mailto:Martin@barrettump.com)

## TECHNICAL REPORT The Fundamentals don't change

As technology advances mechanical fundamentals do not change. But not all mechanical fundamentals are commonly known. We see many designers and engineers doing the work not that is not in line with their educational background. You may have had a great teacher who drilled in pump properties, thermal laws, and heat transfer fundamentals. Etc. Not everyone has been so lucky enough to have had a great teacher.

To the engineers,  
I encourage you to reach out to your available resources to learn what

you are expected to know in your current position and master it. Then look ahead to attend the available training you can. You want to know more than your current position requires of you so when the next opportunity comes along you are ready.

To the Principals, I encourage you to review system basics with your team members to refresh the thought process and push for continued education in and outside the office.

There are countless resources from accredited sources at the local universities to ASHRAE and ASPE literature study. So get caught up and get ahead for the good of your career path.

Anthony Wikum

Vice President Technical

## ASPE MEETING FOR FEBRUARY

Don't forget March meeting we are going back to lunch meeting @ Ranch events Conference. Envite flyers are out mark your calendars.



**New Representative:**  
**Mainline Sales**

**One Mission.  
One Focus.  
No Distractions.**

Emergency equipment isn't just what we do. It's all we do. Your safety is too important to entrust to just anyone. All Guardian emergency eyewash and shower products are inspected, fully assembled, and 100% water-tested in our Chicago facility, which means you receive the most reliable emergency equipment each time, every time. Your safety isn't just a priority. It's our only priority.

Visit [jesafety.com](http://jesafety.com) to learn more.

 **Guardian**  
EMERGENCY EYEWASH & SHOWER TECHNOLOGY

Represented by:  
**Mainline Sales**  
(877) 309-9346



**SPEC**  
**Sales**  
SPECIFICATION SALES

1295 East Acacia Street  
Ontario, CA 91761  
909-594-7088

[www.specsales.com](http://www.specsales.com)  
[orders@specsales.com](mailto:orders@specsales.com)

Our Representation in Southern California includes the following manufacturers:



# American Society of Plumbing Engineers™ S A N D I E G O

## PRESIDENT'S REPORT

Grant Schaffer ASPE SD President , Reg. 4 Nominating Committee

To all Members ASPE San Diego,

This next month we will be going back to Ranch events Conference center for our normal lunch meeting. There was good showing for February and Saum had a great topic. FYI Saum cannot publish the data he has provided as it is copy written on the 2 hour discussion from last month, but he did mention he is publishing his own version and will let us know when it is available. I will get it to the members as soon as I see it. PLEASE SEE THE NOTIFICATIONS .We are sending our e- blast.

The New ASPE SD website is ready. Please visit and see the new content. It has been a long time coming and our new webmaster has done a great job. Thanks to Jill Wells and the ASPE SD board for making this happen.

CDP exam dates are from March 30- April 5<sup>th</sup> 2020.



The dates have been set and the dates are as follows: 2020: Convention & Expo: September 11-16, 2020 in New Orleans, LA; 2021: Technical Symposium: September 21-26, 2021 in San Diego, CA; 2022: Convention & Expo: September 16-21, 2022 in Indianapolis, IN; 2023: Technical Symposium: September 26-October 2, 2023 in Bellevue, WA

The golf outing has been set and the date is April 20, 2020. See Martin Trim for sponsorship, signups and any volunteer efforts that you can spare.

Thanks for those who dedicate their time to keep ASPE AD moving forward.

Warm regards,  
Grant Schaffer  
ASPE San Diego President



### San Diego Office:

10680 Treena Street

San Diego, CA 92131

858-368-8360 Office

866-517-3293 Fax

Focusing on Healthcare, Education,  
Commercial, Private, industrial and Process  
sectors

# BARRETT

## Engineered Pumps

Specialists in pumps & pumping systems

1695 National Avenue

San Diego, CA 92113

(619) 232-7867

FAX (619) 232-3029

[www.barrettump.com](http://www.barrettump.com)

Pumps

Parts

Service

Repair



### REPRESENTING

Variable Speed pumping systems. Multi stage pumps & circulating pumps, dosing pumps and systems.  
[www.grundfos.com](http://www.grundfos.com)

Centrifugal, vertical industrial and municipal turbine pumps, ANSI process pumps.  
[www.peerlesspump.com](http://www.peerlesspump.com)

Submersible sump and sewage pumps and pumping systems.  
[www.femyers.com](http://www.femyers.com)

Self-priming industrial centrifugal and rotary gear pumps.  
[www.gormanrupp.com](http://www.gormanrupp.com)

Municipal, industrial, close & flexible coupled centrifugal pumps.  
[www.grundfos.com](http://www.grundfos.com)

Municipal water and waste water pumps.  
[www.grundfos.com](http://www.grundfos.com)

Regenerative turbine type and centrifugal pumps.  
[www.cranepumps.com](http://www.cranepumps.com)

HVAC end suction, split case, vertical inline centrifugal pumps.  
[www.aurorapump.com](http://www.aurorapump.com)

Industrial, special metal pumps and domestic water systems.  
[www.gouldspumps.com](http://www.gouldspumps.com)

Severe duty recessed and heavy duty wastewater pumps.  
[www.grundfos.com](http://www.grundfos.com)

High pressure piston and plunger pumping units & pump sets.  
[www.catpumps.com](http://www.catpumps.com)

Magnetic driven seal-less chemical pumps.  
[www.marchpump.com](http://www.marchpump.com)

Hydra-cell multi-diaphragm, low pulse positive displacement pumps.  
[www.hydra-cell.com](http://www.hydra-cell.com)

Stainless steel and bronze centrifugal industrial, marine, and sanitary pumps.  
[www.ampcopumps.com](http://www.ampcopumps.com)

Contractor, commercial, industrial cast iron & stainless steel submersible effluent & solids handling pumps & oil management controls. [www.stancorpumps.com](http://www.stancorpumps.com)

Condensate and boiler feed pumping units.  
[www.rothpump.com](http://www.rothpump.com)

Small industrial diaphragm pumps.  
[www.xylemflowcontrol.com](http://www.xylemflowcontrol.com)

Pumps for ponds and fountains.  
[www.lg-outdoor.com](http://www.lg-outdoor.com)

Butterfly and check valves, flexible connectors, strainers, heat exchangers, and expansion tanks and air separators.  
[www.wheatleyhvac.com](http://www.wheatleyhvac.com)

Commercial, industrial, municipal pump and system control panels.  
[www.sjerrhombus.com](http://www.sjerrhombus.com)

# V.P. Membership Report

## The Value and Benefits of Membership

We have continued to drop in membership numbers. Last month we are at 95 and now we are at 94. If your work will not reimburse you for your membership, please let me know and we will see if we can get someone to sponsor it. Please let me know if you have any questions or issues with renewing your membership. Keep it in mind it is important to maintain your membership status with ASPE as there are several benefits to being a member. If you find it difficult to obtain continuing education units (CEUs), ASPE can help. Through this special series, ASPE can help you accumulate the CEUs required for maintaining your Certified in Plumbing Design (CPD) credential or other regulatory agency CEU programs for your professional engineering license.

Chrissy Hamm

Specification Sales

760-427-6895



**weil aquatronics**  
Engineered Pumps, Hydronic, and Water Treatment Equipment



**REPRESENTING:**

	<ul style="list-style-type: none"><li>Submersible, vertical, and dry pit sewage and sump pumps</li><li>Condensate return, boiler feed, and circulating pumps</li><li>Submersible and vertical grinder pumps, "Slicer" pumps, "Mover" pumps, "Scum Blaster" systems, prefabricated lift stations</li></ul>			
	<ul style="list-style-type: none"><li>Submersible and dry pit non-clog sewage, effluent and wastewater pumps</li><li>Grinder pumps, cutter pumps, jacketed pumps, and portable dewatering pumps</li><li>High temperature and corrosion resistant pumps</li><li>10 GPM to over 10,000 GPM, 1/2 HP to over 500 HP Prefabricated lift stations</li></ul>			
	<ul style="list-style-type: none"><li>UL- and ETL-listed packaged variable and constant speed pumping systems</li><li>Domestic water, HVAC, irrigation, and fire pump packages</li><li>Custom engineering and design capabilities</li><li>Each system full factory-tested and warranted</li></ul>			
	<ul style="list-style-type: none"><li>High performance self-priming and end suction centrifugal pumps</li><li>Standard heavy-wall ductile iron volutes and 17-4 PH stainless steel shafts</li><li>Shimless impeller adjustment and cartridge-type 5C/TC mechanical seals</li></ul>			
	<ul style="list-style-type: none"><li>Non-chemical water treatment using ozone technologies</li><li>For cooling towers, lakes, fountains, aquariums, swimming pools and other open systems</li><li>AquaPak™ EWS emergency water supply packages for critical facilities</li><li>CleanStream™ cooling tower filtration packages</li></ul>			
	<ul style="list-style-type: none"><li>Patented electroabsorptive technology for water purification and filtration</li><li>Submicron particulate, pathogen, trace pharmaceutical, &amp; cellular debris removal</li><li>Much lower pressure drop, higher flow rates than comparable UF membranes</li><li>Seromix Advanced Metals Removal System</li></ul>			
	<ul style="list-style-type: none"><li>Packaged fire pump systems</li><li>Inline, end suction and double suction circulating pumps</li><li>Turbine, axial, and mixed flow pumps</li><li>Vertical and horizontal multi-stage pumps</li></ul>			
	<ul style="list-style-type: none"><li>PURAIN Self-Cleaning Pre-Filters for Rainwater Collection Systems</li><li>AQUALOOP Graywater Treatment<ul style="list-style-type: none"><li>6 Log Reduction of Bacteria (99.9999%) and 99.7% Virus Removal</li><li>NSF 350 Certification</li></ul></li><li>DRAINMAX Tunnel Infiltration Products for On-Site Detention</li></ul>			
	<ul style="list-style-type: none"><li>Pneumatic Ejectors</li><li>Diaphragm Pumps</li><li>Plunger Pumps</li></ul>			
	<ul style="list-style-type: none"><li>Stainless steel vertical and horizontal multi-stage pumps</li><li>Flows to 550 GPM, Heads to 1350 Ft., Temp to 285° F, Working Pressures to 600 PSI</li><li>Cast AISI 304 or 316 stainless steel S/D casing</li><li>NSF/ANSI 61 Annex G certified</li></ul>			
	<table><tbody><tr><td><ul style="list-style-type: none"><li>HVAC specialties</li><li>Triple duty valves</li><li>Suction diffusers</li><li>Expansion tanks</li></ul></td><td><ul style="list-style-type: none"><li>Air separators</li><li>Flex connectors</li><li>Strainers</li><li>Hydropneumatic tanks</li></ul></td><td><ul style="list-style-type: none"><li>Butterfly valves</li><li>Heat exchangers</li><li>Flow metering devices</li><li>ASME pressure vessels</li></ul></td></tr></tbody></table>	<ul style="list-style-type: none"><li>HVAC specialties</li><li>Triple duty valves</li><li>Suction diffusers</li><li>Expansion tanks</li></ul>	<ul style="list-style-type: none"><li>Air separators</li><li>Flex connectors</li><li>Strainers</li><li>Hydropneumatic tanks</li></ul>	<ul style="list-style-type: none"><li>Butterfly valves</li><li>Heat exchangers</li><li>Flow metering devices</li><li>ASME pressure vessels</li></ul>
<ul style="list-style-type: none"><li>HVAC specialties</li><li>Triple duty valves</li><li>Suction diffusers</li><li>Expansion tanks</li></ul>	<ul style="list-style-type: none"><li>Air separators</li><li>Flex connectors</li><li>Strainers</li><li>Hydropneumatic tanks</li></ul>	<ul style="list-style-type: none"><li>Butterfly valves</li><li>Heat exchangers</li><li>Flow metering devices</li><li>ASME pressure vessels</li></ul>		
<b>ACCESSORY LINES:</b>	<ul style="list-style-type: none"><li>Control panels, alarms</li><li>Fiberglass sump basins</li><li>Level sensors</li><li>Custom fabricated steel covers and frames</li><li>Elevator sumps, holding tanks, and alarms</li></ul>			

**SERVING THE BUILDING TRADES SINCE 1962**

115 E. Palmer Avenue, Unit C  
Glendale, CA 91205-3186  
[www.weilaquatronics.com](http://www.weilaquatronics.com)

Tel: 818.244.5582  
Fax: 818.247.0083  
[info@weilaquatronics.com](mailto:info@weilaquatronics.com)

CALL TOLL FREE:  
**800.74PUMPS**  
(800.747.8677)





9040 Carroll Way, Suite 1, San Diego, CA 92121 (800) 800-8778 p (858) 437-0117  
f [www.elmcostewart.com](http://www.elmcostewart.com)

## TAKE CONTROL.

See Water, Inc. designs and manufactures innovative electrical pump controls, high liquid alarms and pump control panels for the commercial and industrial plumbing industries.

As a UL 508A and 698A control panel manufacturer, our expert team of professionals will find a solution that fits your application.

**SEE WATER** Inc.

888-733-9283  
[www.seewaterinc.com](http://www.seewaterinc.com)

UL 508A UL 698A CE

Orange County, California

American Society of  
Plumbing Engineers™  
S A N D I E G O



# ASPED GOLF TOURNAMENT

## 33rd Annual San Diego Chapter Tournament

**Country Club of Rancho Bernardo**

April 20, 2020 • Check in 11:00 am Shotgun start at 12:00 pm

Contact: Rod Koepke

• Email: [rkoepke@syska.com](mailto:rkoepke@syska.com)

### Sponsorship Opportunities Include:

<b>Platinum Level: \$2500</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ 1-year full page ad in newsletter</li> <li>▪ Banner Recognition</li> <li>▪ Two Golf Foursomes</li> <li>▪ Two Hole Sponsor Signs</li> <li>▪ Extra Drink Tickets</li> </ul>	<b>Gold Level: \$2000</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ 1-year half page ad in newsletter</li> <li>▪ Banner Recognition</li> <li>▪ Two Golf Foursomes</li> <li>▪ One Hole Sponsor Signs</li> <li>▪ Extra Drink Tickets</li> </ul>	<b>Silver Level: \$1500</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ 1-year quarter page ad in newsletter</li> <li>▪ Banner Recognition</li> <li>▪ One Golf Foursome</li> <li>▪ One Hole Sponsor Sign</li> <li>▪ Extra Drink Tickets</li> </ul>
<b>Bronze Level: \$750</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ 1-year business card ad in newsletter</li> <li>▪ Banner Recognition</li> <li>▪ One Golf Twosome</li> <li>▪ One Hole Sponsor Sign</li> </ul>	<b>Lunch Sponsor: \$750</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ Banner Recognition</li> <li>▪ One Hole Sponsor Sign</li> <li>▪ One Golf Single</li> </ul>	<b>Dinner Sponsor: \$1000</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at ASPE Meetings</li> <li>▪ 1-year quarter page ad in newsletter</li> <li>▪ Banner Recognition</li> <li>▪ One Golf Foursome</li> <li>▪ One Hole Sponsor Sign</li> <li>▪ Extra Drink Tickets</li> </ul>
<b>Drink Cart: \$500</b> <ul style="list-style-type: none"> <li>▪ Special Recognition at Monthly ASPE Meetings</li> <li>▪ Banner Recognition</li> <li>▪ One Golf Single</li> <li>▪ One Hole Sponsor Sign</li> </ul>	<b>Hole Sponsor Sign: \$250</b>  <b>2 + 1 (2 Golfers + 1 Hole Sign) for \$500</b>	<b>Entry Fee: \$150 per player \$500 for a foursome</b> <ul style="list-style-type: none"> <li>▪ Golf w/cart</li> <li>▪ Lunch</li> <li>▪ Dinner</li> <li>▪ Two Drink tickets &amp; one Raffle Ticket</li> <li>▪ Range Balls</li> </ul>



# CHOOSE YOUR PERFECT FIT

Thermostatic Balancing Valves for Domestic Hot Water Recirculation Systems



Automatically and continuously maintain the right temperature at your fixtures.

**SPEC**  
SALES SPECIFICATION SALES

Visit [www.CircuitSolver.com/perfect-fit](http://www.CircuitSolver.com/perfect-fit) or call your local rep at 909-594-7088

American Society of  
Plumbing Engineers™  
S A N D I E G O

## Approved for more applications than any other press system

For residential, commercial and industrial projects, Viega provides more press fitting system solutions for engineers than any other manufacturer. The Viega MegaPress® system for black iron is the only press fitting solution for both hydronic and gas applications. Viega MegaPressG approvals/listings for natural gas include UPC, CSA, ICC, TSSA and LA City Lab. Viega MegaPress approvals/listings for hydronic, fire protection and compressed air systems include UMC, UL, FM, ICC and TSSA. Viega also offers the first press fitting for PEX. Approved in the City of LA, Viega PEX Press fittings provide secure connections and a guaranteed method to identify unpressed connections, the Viega Smart Connect® feature.

Contact your local Viega representative to learn more:

David Carneal - david.carneal@viega.us

1-800-976-9819 | [www.viega.us](http://www.viega.us)



“Individual Chapters are not authorized to speak for the Society”  
<https://www.aspesd.org/>



# DELCO SALES

HI NV CA

## Southern California



**A.O. Smith**  
Commercial & residential water heaters  
both gas & electric.  
[www.hotwater.com](http://www.hotwater.com)



**Accor Technology**  
The fastest, most reliable stop system for  
connecting faucets and toilets.  
[www.accortechnology.com](http://www.accortechnology.com)



**American Water Heaters**  
Commercial & residential water heaters  
both gas & electric.  
[www.americanwaterheater.com](http://www.americanwaterheater.com)



**Tolco / B-Line**  
Pipe hangers, seismic, and strut  
systems.  
[www.cooperindustries.com/content/public/en/b-line.html](http://www.cooperindustries.com/content/public/en/b-line.html)



**Bemis / Church**  
Plastic, wood, and soft toilet seats for  
residential and commercial markets.  
[www.bemisseats.com](http://www.bemisseats.com)



**CTS Flange**  
"Fully floating" copper companion flanges  
with electrolysis insulation.  
[www.ctsflange.com](http://www.ctsflange.com)



**E.A. Gray**  
Pipe nipples available in steel, brass,  
plastic, aluminum, and stainless steel.  
[www.eagray.com](http://www.eagray.com)



**Fernco**  
High performance couplings and  
innovative plumbing and drainage  
solutions.  
<https://www.fernco.com>



**Fox Environmental**  
Fox washdown units. Designed to divert  
all your wash down water to waste.  
[www.foxenviro.com.au/us](http://www.foxenviro.com.au/us)



**Just Manufacturing**  
Stainless steel sinks for commercial,  
residential, and institutional applications.  
[www.justmfg.com](http://www.justmfg.com)



**K-FLEX USA**  
Elastomeric closed cell insulation products  
that deliver reliable lasting performance.  
[www.kflexusa.com](http://www.kflexusa.com)



**Liberty Pumps**  
Sump, drain, effluent, sewage, and  
grinder pumps and pump systems.  
[www.libertypumps.com](http://www.libertypumps.com)



**Metcraft Industries**  
Stainless steel products for  
correctionals, hospitals, and schools.  
[www.metcraftindustries.com](http://www.metcraftindustries.com)



**MULTI FITTINGS**  
HIGHER STANDARDS™

**Multi Fittings**  
The widest range of injection molded  
fittings for waste, vent, and drains.  
[www.multifittings.com](http://www.multifittings.com)



**Oatey**  
Washing machine & ice maker boxes,  
Dearborn tubular, ADA trap covers.  
[www.oatey.com](http://www.oatey.com)



**Sloan Valve**  
Providing smart, clean, sustainable  
restroom solutions and designs.  
[www.sloan.com](http://www.sloan.com)



**State Water Heaters**  
Commercial & Residential water  
heaters both gas & electric.  
[www.statewaterheaters.com](http://www.statewaterheaters.com)



**T&S Brass**  
Faucets, fittings, & specialty products  
for a wide range of markets.  
[www.tsbrass.com](http://www.tsbrass.com)



**Takagi**  
Tankless Commercial & Residential  
water heaters.  
[www.takagi.com](http://www.takagi.com)



**Turbo Torch**  
Soldering and welding torches, tips,  
kits and accessories.  
[www.turbotorch.com](http://www.turbotorch.com)



**Watts (family of brands)**  
Ames - Blucher - Brae - Dormont -  
Orion - Powers - Watts Drainage -  
Watts Pure Water - Watts Regulator.  
[www.watts.com](http://www.watts.com)

5375 East Hunter Avenue Anaheim, CA 92807  
Phone (714) 888-2444 • Fax (714) 888-2448 • Sales@delcosales.com • www.delcosales.com

