

Issue No. 10

January 2018

The ASPE OC PRESS



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PRESIDENT'S MESSAGE

By Chris MacKnight

Hello All:

Happy New Year. We are looking forward to a great 2018. Our year starts off with a Technical Meeting where the topic is Legionella. Don't miss this important presentation.

We are still considering setting up classes for Revit. If you are interested, please let a ASPE OC Board Member know.

Did you know that you can gain CEU's through ASPE on line? Read,

Learn, Earn. Need some quick CEUs? ASPE's Read, Learn, Earn program provides one hour of continuing education credit for every exam you successfully pass, and you can take up to 12 exams each year. You can access the January 2018 exam and past 2017 exams at aspe.org/read-learn-earn-articles.

You still have time to apply for the 2018 Alfred Steele Scholarship. This scholarship is open to Student Members of ASPE and the sons/daughters of ASPE Members. To be eligible, you must have a 3.0

PRESIDENT'S MESSAGE

GPA or higher and be enrolled in, or plan to attend, an engineering program at a college or university on a full-time basis. Go to aspe.org/SteeleScholarship to apply by January 31.

If you need help with staying up on Code changes there is a new download that assists in researching code changes.

Complete Revision History to the 2018 I-Codes: Successful Changes and Public Comments collects all of the changes that occurred in the 2018 International Building, Residential, Fire, Plumbing, Mechanical, Energy Conservation, and Existing Building Codes, including the original proposals, committee actions, and final actions.

Our goal is to get our membership up to 110 by June 30. We are over 100 right now. As my monthly reminder, adding members (both affiliates and engineers) to our group adds a bigger knowledge base to our group, which benefits everyone. One of the rea-

sons we hear that some engineers are not attending meetings is the lack of support from their employers. Please note that many of our affiliate members are willing to help sponsor memberships and even some meetings dues for engineers who would like to attend the Technical Meetings, the CPD Review Classes, and Saum Nour's classes each month prior to our Technical Meetings. Please pass this information on to all your colleagues.

Please contribute your ideas for meeting topics to Carl Ludwig (carl@ironwoodplumbing.com). Remember there is a prize worth \$50 to anyone coming up first with an idea for a speaker that we use.

I look forward to seeing you all on January 31st.

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First Name _____ (Nickname) _____ Middle Name _____ Last Name _____

Birth Date: M ___ / D ___ / Y ___ Check all that apply: P.E. P. Eng CPD Graduate Engineer LEED AP CET Other _____

I wish to affiliate with the _____ Chapter. Certification (P.E.) State _____ Certificate No. _____ Branch _____

Preferred Mailing Address RESIDENCE BUSINESS

RESIDENCE: Street Address _____ City _____ State _____ ZIP _____ Phone _____

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Other organizations you are a member of: ASHRAE ASSE NFPA NSPE ASME PHCC ICC IAPMO SFPE Other _____

EDUCATION

	Name of Institution	Course or Major	From	To	Graduation Date	Degree/Diploma
High School						
College/University						
Technical School						
Others						

PROFESSIONAL EXPERIENCE

(This section must be completed as it affects membership grade classification. List chronologically, beginning with the present. Work description must be clear and concise: e.g., plumbing, piping, fire protection, HVAC, etc. Use additional sheet as necessary.)

Date(Mo/Yr)	From	To	Firm Name and Address	Class* (see below)	Title	Description of Work	Degree of Responsibility

*Classification of Firm A - Arch./Engr. or Cons. Engr. B - Govt. Agency C - Mfr. or Mfr's. Rep. D - Educ. Inst. E - Contractor F - Other (Explain)

REFERENCES

(References should be in engineering profession. ASPE members preferred. ASPE reserves the right to contact references.)

Name	Address	Telephone

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New members receive one of four volumes of the this definitive collection of general plumbing practices. As an ASPE member you will be sent the CD-rom unless you indicate preference for the softcover edition. If you would like both the CD-rom and softcover editions, please add \$50 to your total to the right.

CD-ROM SOFTCOVER

RENEWAL REMINDER

I WOULD LIKE TO RECEIVE MEMBERSHIP RENEWAL REMINDERS AND SOCIETY RELATED IMPORTANT ANNOUNCEMENTS VIA TEXT MESSAGES.

CERTIFICATION BY APPLICANT

The undersigned certifies that all statements made herein are correct and, if elected to the Society, agrees to adhere to the Society's Bylaws and accept the Classification conferred by the Society. Upon becoming a member, the applicant will endeavor to advance the objectives of the Society and the plumbing engineering profession.

Signature of Applicant _____ Date _____

Sponsor _____ (Please Print)

How did you hear about ASPE? Past Member Plumbing Engineer Magazine Colleague/Employer ASPE App Website Other _____

American Society of Plumbing Engineers member dues are nonrefundable and not deductible as a charitable expense, but may be deductible as a business expense. * Contributions to ASPE Education (create education programs for membership) and Alfred Steele Scholarship (to award college scholarships) and PE Curriculum/Licensing (create future curriculum and licensing opportunities for membership) Funds are Strictly Voluntary and are not deductible as a charitable contribution but may be deductible as an ordinary and necessary business expense. ** Contributions to the ASPE Research Foundation are Strictly Voluntary and are tax deductible as a charitable contribution.

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TECHNICAL REPORT

By Carl Ludwig, VP Technical

Happy New Year! I hope everyone had a wonderful 2017 and I hope 2018 is even better! In October, I had the opportunity to attend my first ASPE Technical Symposium. This year it was in Montreal. All of the ASPE events I have attended have been extremely rewarding and Montreal was no different. The Technical Symposium was full of educational information including the Technical Seminars, as well as the product show, where I was able to see new products coming to market along with products that have proven track records in our industry. The first day of the Symposium, I had the esteemed pleasure of attending the AYP Business Development class. This was an all day class with a great speaker that covered a lot of information in a really fun way. In addition, I was able to meet a lot of young professionals in our industry and share our experiences. I also sat in on the Long Range Planning Committee and the Legislative Committee meetings. Overall the Technical Symposium was total success. I am extremely grateful for the opportunity to attend this wonderful event. I hope I have the opportunity to attend the 2018 ASPE Convention and Exposition in Atlanta, GA.

We closed 2017 out with our last Technical Meeting of the year in October. The presentation was on Smart Riser Design in Skyscrapers. I would like to thank Marty Rogan, PE with Metraflex who gave a very informative presentation. Moving forward, our first Technical Meeting of 2018 will be held on January 31st. We will have Mr. Craig Boyce with Kemper AIP discuss Mitigating the Risk of Legionella in Plumbing Systems. Craig will discuss what conditions increase risk and what solutions plumbing designers have to mitigate these risks. We think this will be a beneficial topic to the group. The Health and Safety of the public is paramount in our industry and this conversation should continue. This is a Must-See presentation. For our tabletop presentation, we will have the privilege of hearing from Mr. Kurt Bramstedt with Rheem. Kurt has recently started a new position with Rheem and I am interested in hearing about what new products Rheem has to offer. If anyone would like to reserve a tabletop presentation, please do not hesitate to let me, or anyone on the ASPE Board know. In addition, please keep in mind we have Dr. Saum's - CPD Preparation Lecture - at 5:30pm. This is a Must-Attend-Event and we hope you can make it. Look forward to seeing everyone on January 31st, 2018.



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ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

ASPE OC Administrative Secretary Report

Board of Directors Meeting October 25, 2017

Called to order by President Chris MacKnight at 4:15 PM.

Present for the meeting: Chris MacKnight - President, Carl Ludwig - VP Technical, Roland Gutierrez - Corresponding Secretary, Jim Weil - Administrative Secretary, and Bob Woods - Treasurer.

Chris McKnight: Discussed meeting RSVP Web issues; not fully functional on some browsers.

Carl Ludwig reported on the Tech Symposium. AYP business development meeting discussion, ASPE capital improvement project, Rainmaker mission structure, ASPE long range planning committee. Professional liability insurance higher for engineers nationally. All day seminar with known speakers, Revit class. ETP state-funded for tech classes.

Questioned whether we received money from LA for the golf tournament.

Plumbing Design Engineer's: Orange County, San Diego and San Jose available positions at all levels.

We are looking for a team players! We are looking for a motivated, team-oriented, collaborative leader to support the growth of our fast-developing Plumbing team. This person would play a key plumbing engineering group and would be responsible for delivery of technical engineering work.

Key Responsibilities: The Plumbing Engineer is responsible for performing complex design calculations, sketches, technical comparisons and similar technical work as required by assignment. Designs complete systems (e.g. water hot and cold systems, waste and vent, storm drainage, natural gas, fuel oil, controls, medical gases) for low through mid-rise projects. In addition, the engineer calculates and understands impacting issues in Title-24 compliance.

Typical Duties:

- Performs more complex design calculations, sketches, technical comparisons and similar technical work as required by assignment / direction by Project Manager.
- Performs coordination at a higher level by reviewing drawings supplied by vendors, other team engineers, and the architects and implements design modifications as necessary.
- Researches code issues as directed by the Project Manager.
- Researches design options and discuss findings with Project Managers.
- Proficiency in the use of 2D/3D software, including AutoCAD 2D, AutoCAD 3D, Revit, and Navisworks.
- Proficient computer skills with programs such as Word, Excel, PowerPoint, and Microsoft Project Experience performing site investigations of existing building system for renovation type projects.
- Visiting jobsites during construction phase and identifying and generally confirming the proper installation of designed systems and equipment.
- Communicating with and utilizing subordinates (e.g. CAD/BIM manual drafting and Design personnel) in the preparation and/or completion of design documents.
- Communicating with architects and other consultants regarding building systems and their impact on the system design.
- Communicating with building officials regarding code issues impacting system design.
- Begin to interact with clients as his or her level of experience progresses. May attend "kick-off" and design review meetings as directed by a Project Manager.
- Reviewing project budget cost and preparing opinions of probable construction costs.

Qualifications: Bachelor's Degree in Engineering or Related field is preferred.

- 5 - 7 years of project experience in Plumbing design.
- Experience with AutoCAD and Revit is required.
- Knowledge of California Plumbing Code and related California Building Codes.
- Knowledge of green building practices and LEED Rating System.
- LEED AP Certification is desired.
- Experience with healthcare plumbing systems and life science projects are desirable. (OSHPD)

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Qualifications & Requirements:

- 3-5 years' experience in mechanical building design, including commissioning projects design review, commissioning specifications, startup review and all testing
- Functional Performance Testing (FPT) and Performance Verification Testing (PVT), and final commissioning report composition
- Technically proficient in HVAC systems design, DDC control systems and lighting control systems
- EIT or PE certification helpful but not required
- Certification with ACG as a Commissioning Authority for military, commercial, and hospitality projects helpful but not required
- Excellent written and verbal communications and some travel (mostly in Southern California) is required.

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Mechanical Designer/Engineer (Carlsbad/Vista)

Overview:

Immediate opening for a Mechanical Designer/Engineer to join our team.

The successful candidate will be professional, self-motivated, energetic, & enthusiastic with excellent communication and inter-personal skills, and a desire to contribute to our continued success. Previous consulting engineering firm experience required.

We value your experience including the following qualifications, technical skills, and abilities:

- Strong technical skills and the ability to produce accurate and timely HVAC systems designs for commercial, educational, health-care and military facilities
- Design and documentation skills
- The ability to develop layouts and detailed schematics for HVAC systems
- Expertise in piping and hydronic designs
- Comprehensive understanding of energy conservation reports
- Title - 24 calculation
- LEED design experience with a focus on energy efficiency and sustainability
- LEED documentation and coordination skills

Qualifications / Requirements:

- Bachelor's degree in Mechanical Engineering (or related industry experience) and a minimum of 4 years' experience in Mechanical design, or equivalent combination of education and experience
- Recent relevant experience in the engineering/construction field
- Experience in packaged equipment and central plants
- Knowledge of CA Energy Standards - Code Requirements
- EIT or PE certificates helpful but not required.
- LEED - AP preferred
- Team-player: Demonstrated ability to effectively manage a projects and/or take direction from project managers
- Proficiency with MS Office and CAD
- Strong verbal and writing communication skills

Plumbing Designer/Engineer (Carlsbad/Vista)

Overview:

Immediate opening for a Plumbing Designer to join our team. The successful candidate will be professional, self-motivated, energetic & enthusiastic with excellent communication and inter-personal skills and a desire to contribute to our continued success. Previous consulting engineering firm experience required.

We Value Your Experience Including the Following Qualifications, Technical Skills & Abilities:

Design and assist with designing Plumbing Systems for commercial, educational, health-care and military facilities.

- Prepare detailed layouts for all drainage and water supply systems for all types of facilities, piping & hydronic designs
- Research & select equipment from various manufacturers
- Complete fixtures / equipment schedules
- Perform calculations for a project, such as equipment selection and sizing, fixtures calculations, product specifications, and design and layout for roof drains, sanitary lines, and water lines.

- Estimate construction costs and evaluate feasibility of construction
- Comprehensive understanding of Code Compliance
- Provide drafting support using AutoCAD and BIM to drafting staff

Qualifications & Requirements:

- A minimum 4 years of directly related experience in plumbing design or equivalent combination of education and experience.
- Recent relevant experience in the engineering/construction field
- Plumbing design from Schematic Design through Construction Administration
- Comprehensive knowledge of plumbing engineering fundamentals
- LEED - AP preferred
- Team-player: Demonstrated ability to effectively manage a projects and/or take direction from project managers
- Proficiency with MS Office and AutoCAD
- Strong verbal and writing communication skills

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- 1.) Why you are interested in this position,
- 2.) The special talents or strengths you will bring to our team and
- 3.) An example of a success that demonstrates your skills and abilities, for you are particularly proud.



John Zagorski cell: 562-447-4561
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G & L SERIES, WATER & MILD CORROSIVE PUMPS, 304 & 316 INVESTMENT CAST STAINLESS STEEL, END SUCTION, HORIZONTAL & VERTICAL MULTISTAGE, HIGH PRESSURE MULTI-STAGE WATER GUNS



RESIDENTIAL AND COMMERCIAL CONDENSING STAINLESS STEEL BOILERS AND WATER HEATERS, COPPER-FIN BOILERS AND WATER HEATERS, HEAT PUMP WATER HEATERS, STORAGE TANKS, HOT WATER GENERATOR SYSTEMS, BUFFER TANKS AND GAS FIRED POOL HEATERS.



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FLEXIBLE COUPLINGS, RUBBER AND METAL CONNECTORS, METRALOOP EXPANSION LOOPS, HYDRO-FORMED EXPANSION JOINTS, EXPANSION COMPENSATORS, PIPE ALIGNMENT GUIDE, WALL PENETRATIONS SEALS, BUTTERFLY VALVES, PIPELINE STRAINERS, FM AND UL RATINGS



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STEAM SPECIALTIES, TEMPERATURE & PRESSURE CONTROL VALVES, STEAM TRAPS, AUTOMATIC & MANUAL AIR VENTS, VACUUM BREAKERS, CONDENSATE & BOILER FEED PUMPS



BOILER SAFETY CONTROLS, LIQUID LEVEL CONTROLS, FLOW SWITCHES



MADE IN USA AND GSA CERTIFIED PRESSURE INDEPENDENT CONTROL VALVES, ACTUATED BALL VALVES, MANUAL BALANCE VALVES, AUTOMATIC BALANCE VALVES, COIL PIPING PACKAGES, HOSE KITS AND PIPING COMPONENTS & ACCESSORIES



ASME CERTIFIED AND NON-ASME CERTIFIED PRESSURE VESSELS



PACKAGED SYSTEMS FOR PUMPING AND HEAT TRANSFER APPLICATIONS

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- SLANT FIN • SECTIONAL CAST IRON BOILERS, BASEBOARD RADIATION
- MILJOCO CORP. • GAUGES, THERMOMETERS

ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

ASPE OC Administrative Secretary Report
General Meeting October 25, 2017

Meeting called to order by Chris MacKnight at 6:57 PM

Recognition of Past Presidents:

- o Andrew Cole
- o Don Strickland

Announcements:

- o Greg Glover, ASHRAE
- Guest introductions
- Self-introductions

Technical Presentation:

- o Introduction by VP Tech Carl Ludwig
- o Speaker: Marty Rogin, PE
- o Topic: Understanding the Dynamics of Riser Design in Skyscrapers
- o Questions from the audience
- o Certificate of Appreciation was presented by Carl

Announcements:

- o Carl Ludwig announced that November and December would be dark.
- o January technical presentation will be on sizing recirculating pumps.
- o There will be an email survey as to whether we should have a November social gathering.

Table Top Presentation:

- o Rheem heating and cooling products

Raffle - Prizes donated by:

- o Mainline Sales/John Zagorski - Tool bag and tools
- o Grundfos/Sal Militello - Drone
- o Holiday Inn - Wine
- o Weil Aquatronics/Jim Weil - Gift certificate

Meeting adjourned 8:19 PM



Alex Jimenez
Cell: (909) 203-2008
Office: (714) 888-2444
AJimenez@Delcosales.com
www.Delcosales.com

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	<p>AB & I Foundry Cast iron pipe, fittings and no-hub couplings. www.abifoundry.com</p>		<p>Liberty Pumps Sump, drain, effluent, sewage and grinder pumps and pump systems. www.libertypumps.com</p>
	<p>Anaco Couplings All stainless no-hub couplings. www.anaco-husky.com</p>		<p>Metcraft Industries Stainless Steel Plumbing Products for Correctional Market, Hospitals Schools www.metcraftindustries.com</p>
	<p>AC Smith. Commercial & Residential water heaters both gas & electric. www.hotwater.com</p>		<p>Oatey Washing Machine & Ice Maker boxes, Dearborn tubular, ADA Trap Covers www.oatey.com</p>
	<p>american Commercial & Residential water heaters both gas & electric. www.americanwaterheater.com</p>		<p>state Commercial & Residential water heaters both gas & electric. www.staterwaterheaters.com</p>
	<p>Bemis / Church Plastic, wood and soft seats for residential, Commercial and specialty applications www.toiletseats.com</p>		<p>TAKAGI Tankless Commercial & Residential water heaters www.takagi.com</p>
	<p>Brae Rainwater harvesting. Complete systems designed to conserve water and help meet your sustainability objectives. www.braewater.com</p>		<p>Orion No hub fittings for acid waste drainage systems. Rionfuse polypropylene fittings, neutralization tanks, corrosion resistant lab sinks. www.orionfittings.com</p>
	<p>Eemax Instantaneous, tank-less, electric water heaters www.eemaxinc.com</p>		<p>Powers Water tempering and process control specialists www.powerscontrols.com</p>
	<p>Fox Environmental Fox washdown units. Designed to divert all your Wash down water to waste while allowing rainwater to go to storm water. www.foxenviro.com/au</p>		<p>Sloan Valve Manual and sensor operated flushometers, Faucets and vitreous china fixtures, hand dryers, SloanStone systems www.sloanvalve.com</p>
	<p>Holdrite The market leader in pipe support and alignment systems featuring Holdrite, Lockrite, Pexrite Quick strap, and HydroFlame www.holdrite.com</p>		<p>Watts Drainage / Blücher Specification drains, floor sinks, interceptors, trench drains, carriers stainless steel drainage systems, floor drains, shower drains. www.watts.com/drainage www.blucherdrains.com</p>
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REPRESENTING:

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Engineered Pumps, Hydronic, and Water Treatment Equipment



	<ul style="list-style-type: none"> Submersible, vertical, and dry pit sewage and sump pumps Condensate return, boiler feed, and circulating pumps Submersible and vertical grinder pumps, "Slicer" pumps, "Mover" pumps, "Scum Blaster" systems, prefabricated lift stations 			
	<ul style="list-style-type: none"> Submersible and dry pit non-clog sewage, effluent and wastewater pumps Grinder pumps, cutter pumps, jacketed pumps, and and portable dewatering pumps High temperature and corrosion resistant pumps 10 GPM to over 10,000 GPM, 1/2 HP to over 500 HP Prefabricated lift stations 			
	<ul style="list-style-type: none"> UL- and ETL-listed packaged variable and constant speed pumping systems Domestic water, HVAC, irrigation, and fire pump packages Custom engineering and design capabilities Each system full factory-tested and warranted 			
	<ul style="list-style-type: none"> High performance self-priming and end suction centrifugal pumps Standard heavy-wall ductile iron volutes and 17-4 PH stainless steel shafts Shimless impeller adjustment and cartridge-type SC/TC mechanical seals 			
	<ul style="list-style-type: none"> Non-chemical water treatment using ozone technologies For cooling towers, lakes, fountains, aquariums, swimming pools and other open systems AquaPak™ EWS emergency water supply packages for critical facilities CleanStream™ cooling tower filtration packages 			
	<ul style="list-style-type: none"> Patented electroabsorptive technology for water purification and filtration Submicron particulate, pathogen, trace pharmaceutical, & cellular debris removal Much lower pressure drop, higher flow rates than comparable UF membranes Seromix Advanced Metals Removal System 			
	<ul style="list-style-type: none"> Packaged fire pump systems Inline, end suction and double suction circulating pumps Turbine, axial, and mixed flow pumps Vertical and horizontal multi-stage pumps 			
	<ul style="list-style-type: none"> PURAIN Self-Cleaning Pre-Filters for Rainwater Collection Systems AQUALOOP Graywater Treatment <ul style="list-style-type: none"> 6 Log Reduction of Bacteria (99.9999%) and 99.7% Virus Removal NSF 350 Certification DRAINMAX Tunnel Infiltration Products for On-Site Detention 			
	<ul style="list-style-type: none"> Pneumatic Ejectors Diaphragm Pumps Plunger Pumps 			
	<ul style="list-style-type: none"> Stainless steel vertical and horizontal multi-stage pumps Flows to 550 GPM, Heads to 1350 Ft., Temp to 285° F, Working Pressures to 600 PSI Cast AISI 304 or 316 stainless steel S/D casing NSF/ANSI 61 Annex G certified 			
	<table border="0"> <tr> <td> <ul style="list-style-type: none"> HVAC specialties Triple duty valves Suction diffusers Expansion tanks </td> <td> <ul style="list-style-type: none"> Air separators Flex connectors Strainers Hydropneumatic tanks </td> <td> <ul style="list-style-type: none"> Butterfly valves Heat exchangers Flow metering devices ASME pressure vessels </td> </tr> </table>	<ul style="list-style-type: none"> HVAC specialties Triple duty valves Suction diffusers Expansion tanks 	<ul style="list-style-type: none"> Air separators Flex connectors Strainers Hydropneumatic tanks 	<ul style="list-style-type: none"> Butterfly valves Heat exchangers Flow metering devices ASME pressure vessels
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ACCESSORY LINES:	<ul style="list-style-type: none"> Control panels, alarms Fiberglass sump basins Level sensors Custom fabricated steel covers and frames Elevator sumps, holding tanks, and alarms 			

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FABRICATED STEEL PRODUCTS

LEVEL CONTROLS & FLOATS
ELEVATOR ALARMS SYSTEMS
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Contact Us

ASPE Orange County
 179 S. Barbara Way, Anaheim, CA 92806
 Phone (714) 305-9015
 E-Mail chrismacknight857@msn.com
 Web www.aspeoc.com

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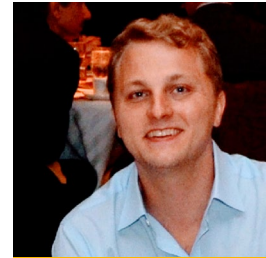
Kurt Bramstedt
 Region 4 Affiliate Liaison
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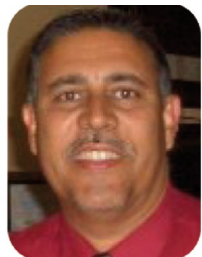
Alex Jimenez
 Vice President – Membership
 Delco Sales
 (909) 203-2008



Eric Decker
 AYP Liaison
 Dawson Company
 (909) 762-0924



Jim Weil
 Administrative Secretary
 Weil Aquatronics
 (714) 679-9514



Roland Gutierrez
 Corresponding Secretary
 Daybreak Technologies Inc.
 (714) 612-9076



Bob Woods
 Treasurer
 Raypak
 (818) 292-1538



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 Affiliate Liaison
 Signature Sales
 (951) 691-0568



Carl Ludwig
 Vice President - Technical
 Ironwood Plumbing
 (714) 900-5885



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