

Issue No. 14

May 2018

The ASPE OC PRESS



President's Message

by Chris MacKnight
Page 2

ASPE Membership

American Society of Plumbing Engineers
Membership Application
Page 5

Technical Report

by Carl P Ludwig - VP Technical
Page 9

PRESIDENT'S MESSAGE

By Chris MacKnight

Hello All:

Happy May.

2018 ASPE Convention & Expo registration is now open!

In addition to our famous Expo and top-notch technical education program, this year we also are offering a Women of ASPE Leadership Forum and Care for a Cause with the Girl Scouts of Atlanta, a Green Plumbing Design workshop, a golf outing at Stone Mountain Golf Club, an ASPE Young Professionals networking social at Top Golf, and a reception for first-time attendees, among other excit-

ing features. You can learn all about this year's event and register at expo.aspe.org. ASPE has secured discounted rates at the Hilton Atlanta and the Omni Atlanta Hotel at CNN Center for 2018 Convention & Expo attendees, and you can reserve your room here starting April 16.

New model shows how bacteria grow in plumbing systems

Rather than reproducing the conditions of a stagnant plumbing system within a lab setting, University of Illinois researchers sampled

PRESIDENT'S MESSAGE

dormitory tap water before and after a school break to determine the extent of microbe growth inside in-premise pipes. More>>

One of the reasons 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, 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 May 30.



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

*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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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 _____

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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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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 dvrainage, 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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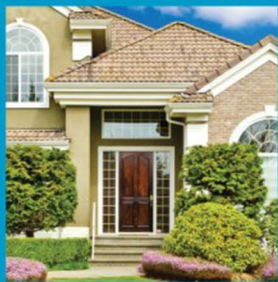


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TECHNICAL REPORT

By Carl Ludwig, VP Technical

Greetings,

Thank you to all who attended our last Technical Meeting on April 25th, 2018. We would like to thank Matthew Tucci who gave an excellent presentation on double containment piping systems.

Moving forward, we are extremely excited to announce that our next Technical Meeting will be on May 30th, 2018. The speaker will be Ira Schumer with Signature Sales. Ira will be educating us on Water Heater and Boiler Design based upon the fuel source, size, application, efficiency and type of technology that was used to make the water heater/boiler. This is a great topic and we are certainly looking forward to hearing from Ira.

Please keep in mind, if anyone would like to reserve a tabletop presentation, please do not hesitate to let me, or anyone on the ASPE OC Board know. I can be reached by phone at 714-340-5114 or by e-mail at AmericanDrafter@gmail.com.

To help prepare Plumbing Engineers for the CPD test we will have Dr. Saum's - CPD Preparation Lecture - at 5:30pm. This is a Must-Attend-Event and we hope you can make it.

Also, ASPEOC is moving forward towards the goal of our first Revit class. Chris MacKnight our Chapter President and Dr. Saum Nour, PE, our Vice President Legislative has been working very hard to make this class a reality. We are excited about it and really looking forward to learning more about Revit.

Look forward to seeing everyone on May 30th, 2018.

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ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

**ASPE OC Administrative Secretary Report
Board of Directors Meeting April 25, 2018**

Called to order by President Chris McKnight at 4:25 PM.

Present for the meeting: Chris MacKnight - President, Saum Noor - VP Legislative, Jim Weil - Administrative Secretary, Ira Schumer - Affiliate Liaison, and Carl Ludwig - VP Technical.

First item of discussion was Revit classes. Chris stated that Saum was to procure computers and instructors. Saum responded that he had not conducted any interviews yet, and that he and Carl are to set up the program. Classes will be at Saum's office, Saturdays 8AM-2PM, for five weeks. Chris suggested Jose Mora for instructor - he has taught classes for other companies. Saum asserted that we would also need backup/standby instructors. Saum will purchase equipment, with one large monitor in lieu of two smaller ones each. Carl suggested 34" TV for monitor. Saum will also be purchasing Revit software. Chris gave him the chapter credit card, and Saum committed to purchasing the equipment before Monday (4/30).

Chris raised the VP Membership situation, with no one stepping up to help fulfill the duties. We now have 107 members, with two new prospects, one away from our goal of 110 members by 6/1. Saum advocated that we look for a replacement VPM. (Saum brought up Board of Governors - side discussion followed.) Carl suggested that we all make an effort on our own to find someone to fill the position.

Saum brought up technical topics. Carl stated next month's topic will continue the hot water series. June will be on the energy code, water heaters and applications. Saum stated that Kurt Bramstedt was to do presentation on water heaters, and Ira Schumer on hot water applications. Ira to write outline. Kelly Gilfoy to do the code portion. July, tour of the Gas Company Center in Downey? August, Steve Komenda on water heater sizing. For September, Carl suggested Zay Soe of Southland, who did a previous presentation for ASPE national on the key to successful constructible design. Saum suggested the USC backflow design handbook would be a good basis for a lecture or series next year (after the pump series).

Meeting was adjourned at 5:20 PM.



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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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ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

**ASPE OC Administrative Secretary Report
General Meeting April 25, 2018**

Called to order 7:00 PM by Chris MacKnight, President

Pledge of allegiance, led by Don Strickland

Announcements:

- Saum Noor talked about the USC backflow device handbook, uses for lecture notes, IAPMO lecture.
- Don Strickland spoke about ASPE scholarships, 5/31 deadline to run for national office, and proposed bylaw changes are due 6/5. Convention registration is now open.

New member and guest introductions.

Self-introductions.

Technical Presentation:

Carl Ludwig introduced tonight's speaker, Matthew Tucci, Applications Engineer with IPEX USA. Topic: Double Containment Piping Design. Questions from the audience and discussion followed. Carl presented the chapter Certificate of Appreciation.

Tabletops:

- Spears Manufacturing (www.spearsmfg.com)
- Aqua-Rex water conditioners (www.aqua-rex.com) .

Fines were levied by Sergeant at Arms stand-in Brian Fitzpatrick


Announcements:

- Chris listed and thanked the major golf tournament sponsors.
- Carl announced upcoming meeting topics. June will be Ira Schumer with Signature Sales on water heater and boiler design; June Kelly Gilfoy on the energy code for domestic hot water systems; a tour in July; August, Steve Komenda on water heater sizing; for September, Zay Soe of Southland, on the key to successful constructible design.
- Revit classes will be Saturday 8am to 2pm for five weeks, \$400 up-front charge.

Raffle Prizes:

- Chris Smith, Lubrizol: gift cards, bottles of wine
- Ira Schumer, Signature Sales: wine
- Mario Orlando, Spears: candy
- John S, Apollo: gift card
- Jim Weil, Weil Aquatronics: golf balls
- Steve Komenda, Signature Sales: gift card
- Chris MacKnight, Custom H2O: engineer-only prizes

Meeting adjourned at 8:31 PM



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ASPE Orange County
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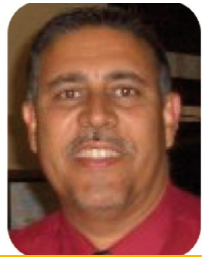
Alex Jimenez
 Vice President – Membership
 Delco Sales
 (909) 203-2008



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



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



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