

Issue No. 12

March 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 14

PRESIDENT'S MESSAGE

By Chris MacKnight

Hello All:

Happy March. Our last meeting was a tremendous success with great attendance and great technical information. Thank you very much to Eric Decker from Dawson Co. and Saum Nour from Absolute Consulting Engineers.

This month we will have even more choices for raffle prizes for the plumbing engineers who attend the March Technical Meeting.

ASPE announces an important change to the CPD exam open-book policy

Starting with the 2018 Certified in Plumbing Design (CPD) exam, which is being held on April 5 and 6, candidates can bring any printed reference material or publication into the testing center. Materials no longer have to be commercially produced books. To learn more, visit our FAQ page at aspe.org/CPDOpenBookFAQs. Sign up for our free informational webinar being held tonight at 9 p.m. EDT at aspe.org/CPDChat to learn more about this change.

Free energy-efficiency webinar is being held on April 19

"Making Energy Efficiency a Reality," presented by ASHRAE, will

PRESIDENT'S MESSAGE

help viewers learn how to achieve optimum energy performance in commercial and high-rise residential buildings. More>>

Another reminder. Our goal is to get our membership up to 110 by June 30. We are up to 105 OC members 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 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, 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 March 28.



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

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LEGISLATIVE REPORT

by Dr. Saum K. Nour, PE, CPD, CFPE, ASPE Fellow
V.P. Legislative

Location: Anywhere USA

Sewer Pipe Rehabilitation

Analysis of Existing Piping and Recommendations

Dr. Saum K. Nour, CPD, ASPE Fellow

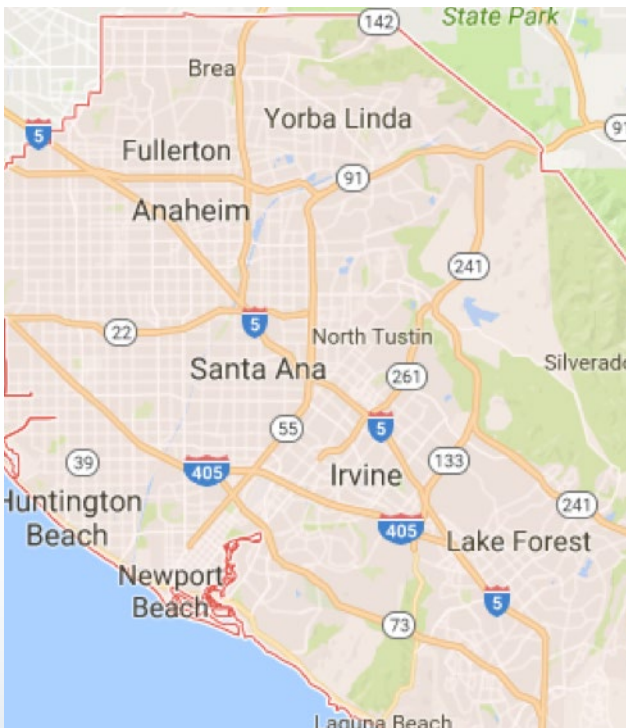
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Situation:

This building could be situated anywhere in United States. Recently unearthed and excavated sewer plumbing system revealed major corrosion of piping. All of the sewer piping for the center core of the club are to be installed with conventional sewer piping with HDPE horizontal drilling piping. The first task for this report is to identify a pipe rehabilitation solution for remaining sewer piping within an existing functioning building. Second task is to identify the means, methods, and company that will meet this task with satisfactory results.

Analysis:

Main building is positioned as shown in this site plan.



The sewer piping is subdivided into two parts: new sewer piping using the horizontal drilling technology and new conventional piping.

This portion of the pipe is near 150 ft and 5 ft drop. This process shall be Horizontal Directional Drilling.

The Horizontal Directional Drilling (HDD) Industry has experienced so much growth in the past two decades that HDD has become commonplace as a method of installation. One source reported that the number of units in use increased by more than a hundred-fold in the decade following 1984. This growth has been driven by the benefits offered to utility owners (such as the elimination of traffic disruption and minimal surface damage) and by the ingenuity of contractors in developing this technology. To date, HDD pipe engineering has focused on installation techniques, and rightfully so. In many cases, the pipe experiences its maximum lifetime loads during the pullback operation.

Two major reading sources for this subject are: ASTM F1962, "Standard Guide for Use of MaxiHorizontal Directional Drilling for Placement of PE Pipe or Conduit Under Obstacles, Including River Crossings," and in the ASCE Manual of Practice 108, "Pipeline Design for Installation by Directional Drilling."

Main consideration of the HDD process are:

1. Select the crossing route to keep it to the shortest reasonable distance.
2. Find routes and sites where the pipeline can be constructed in one continuous length; or at least in long multiple segments fused together during insertion.
3. Although compound curves have been done, try to use as straight a drill path as possible.
4. Avoid entry and exit elevation differences in excess of 50 feet; both points should be as close as possible to the same elevation.
5. Locate all buried structures and utilities within 10 feet of the drill-path for mini HDD applications and within 25 feet of the drill-path for maxi-HDD applications. Crossing lines are typically exposed for exact location.
6. Observe and avoid above-ground structures, such as power lines, which might limit the height available for construction equipment.
7. The HDD process takes very little working space versus other methods. However, actual site space varies somewhat depending upon the crossing distance, pipe diameter, and soil type.
8. Long crossings with large diameter pipe need bigger, more powerful equipment and drill rig.
9. As pipe diameter increases, large volumes of drilling fluids must be pumped, requiring more/larger pumps and mud-cleaning and storage equipment.
10. Space requirements for maxi-HDD rigs can range from a 100 feet wide by 150 feet long entry plot for a 1000 ft crossing up to 200 feet wide by 300 feet long area for a crossing of 3000 or more feet.
11. On the pipe side of the crossing, sufficient temporary space should be rented to allow fusing and joining the PE carrier pipe in a continuous string beginning about 75 feet beyond the exit point with a width of 35 to 50 feet, depending on the pipe diameter. Space requirements for coiled pipe are considerably less. Larger pipe sizes require larger and heavier construction equipment which needs more maneuvering room (though use of PE minimizes this). The initial pipe side "exit" location should be about 50' W x 100' L for most crossings, up to 100' W x 150' L for equipment needed in large diameter crossings.
12. Obtain "as-built" drawings based on the final course followed by the reamer and the installed pipeline. The gravity forces may have caused the reamer to go slightly deeper than the pilot hole, and the buoyant pipe may be resting on the crown of the reamed hole. The as-built drawings are essential.

The key for this process is the experienced team with minimum ten years of practice in HDD.

Once again the options are clear, conventional plumbing, HDD, or pipe rehabilitation process. Given the circumstances, conventional plumbing and HDD are not practical.

The 2017 California Plumbing Code or 2016 Uniform Plumbing Code now addresses the pipe lining under new section 320.1. The body of code reasoning is provided below. The following is a section of this Engineers' lectures to the International Association of Plumbing and Mechanical Organization inspectors presented for the past three months.

What Changed in the Code?

320.1 Rehabilitation of Piping Systems.

320.2 General. Where pressure piping systems are rehabilitated using an epoxy lining system it shall be in accordance with ASTM F283 I.

ASTM F283 I -201 1 (Standard Practice for Internal Non Structural Epoxy Barrier Coating Material used in Rehabilitation of Metallic Pressurized Piping Systems) is a National Standard and was accepted by the membership during the last cycle and included in Table 1401.1 of the 2012 code. This standard is intended to cover products used in the rehabilitation of metallic pressurized piping systems. Similar wording has been accepted in the IAPMO Green Code Supplement for 2012. Accordingly, wording was added in the body of the code to reinforce the necessity of complying with ASTM F283 I when using epoxy lining to rehabilitate pressure piping systems.

Why was it changed?

Until the development of ASTM F283 I there has been no uniform enforcement of requirements for installing, testing, and quality control of epoxy lining systems used in the rehabilitation of pressure piping systems even though they have been listed by various organizations, including IAPMO.

How it affects this project?

The addition of the requirements in the body of the code will reinforce compliance with this standard and give the Authority Having Jurisdiction more tools to assure proper installation and use of these procedures. Installers should be aware of this requirement for products installed in the rehabilitation of metallic pressurized piping systems, as these requirements are now enforceable by the Authority Having Jurisdiction. Inspectors will have to be aware of and familiar with ASTM F283 I -2011 to ensure it is properly followed. If these requirements are not met, the result could be pipe failure and lead to added cost to either the contractor to repair any damage or the owner, who is likely to seek damages from the contractor. To prevent this, installers should be trained on the standard and the appropriate skills needed for proper installation.

ASTM F283 I gives the inspector the authority to require third party testing to ensure the provisions of the standard are followed properly. Third party testing includes visual inspection at the opening and exit of piping. Hand held probes may be used on piping up to 2" and any piping over 2" a CCTV shall be used to verify a 4' maximum length of piping. The pipe shall be tested to 150 psig or 1-1/2 times the working pressure. Flow rates must also be verified to ensure the piping meets the minimum flow rate requirements of local model codes. When used for potable water systems an annual chemical extraction test must be performed to verify continued compliance with Section 5 of NSF/ANSI 61.

This code section clearly identifies that now Authority Having Jurisdiction has a unified process and means and methods of quality controls.

The process of pipe rehabilitation or lining is technically called: Cured In Place Piping.

A cured-in-place pipe (CIPP) is one of several trenchless rehabilitation methods used to repair existing pipelines. CIPP is a jointless, seamless, pipe-within-a-pipe with the capability to rehabilitate pipes ranging in diameter from 4"-110", smaller pipes may not be practical due to size or robotic inspections. As one of the most widely used rehabilitation methods CIPP has application in water, sewer, gas, and chemical pipelines

The process is relatively simple: A resin-saturated felt tube made of polyester, fiberglass cloth or a number of other materials suitable for resin impregnation, is inverted or pulled into a damaged pipe. It is usually done from the upstream access point (manhole or excavation). It is possible to invert the liner upstream (e.g. from the downstream access point) but this carries greater risk. It is possible to install a liner from the downstream access point, upstream to a blind end however this carries the highest risk of all the CIPP

installation methods. Little to no digging is involved in this trenchless process, making for a potentially more cost-effective and less disruptive method than traditional "dig and replace" pipe repair methods. The liner can be inverted using water or air pressure. The pressure required for inversion can be generated using pressure vessels, scaffolds or a "Chip unit". Hot water, UV light, ambient cured or steam is used to cure the resin and form a tight-fitting, joint less and corrosion-resistant replacement pipe. Service laterals are restored internally with robotically controlled cutting devices in the larger diameter pipe. Smaller diameters (100mm) can be opened remotely however they are often reinstated by excavation. The service lateral connection can be sealed with specially designed CIPP materials. The resin used is typically polyester. Since all resins shrink and it is impossible to bond to a sewer that has fats, oils, and grease an annular space exists between the new CIPP liner and the host pipe. The annular space exists in all installations just some are larger than others. The most effective way to prevent water from tracking in the annular space and entering back into the waste stream is from a water swelling material (hydrophilic) placed at the ends of the host pipe and at the lateral connections. The rehabilitated pipe is then inspected by closed-circuit television (CCTV). CIPP is considered a trenchless technology.

As noted in the appendix of this report, there are number of legal complaints. The key is to insure the process does not carry the flaws presented and repeated as noted in this report.

Pros and Cons:

The pipe rehabilitation clearly carries pros and cons as a method

Pros:

- It is evident that most municipalities are using this method and are bidding for their piping and UPC recognizes the method.
- US Military papers show as early as 1988
- EPA has white paper
- There are national standards
- This was imported from other countries with more experience.

Cons:

- Fear of new methods as a beta site still hold
- The attached legal papers provide a very good insights of the failures, especially at bends or Tees.

Decision must be made by the building management on the exact path to be taken. It is obvious the conventional re-piping can be intrusive to the existing operation of the building.

If decided to pursue CIPP

- Plumbing Installer must be only function as plumbing pipe liner
- Pipe Liner Plumbing contractor "Team" must carry \$1,000,000 liability
- Each Pipe Liner Plumbing "Team" must have ten years of experience in lining
- Double or multi-layer lining can be pursued and will be given higher priority after verifying that the codes for inner diameter after completion
- Robotic cuts at TY's to be verified with camera
- Camera to be sent after full cleaning of the pipe.
- Camera to be sent after relining
- Major warranty verification:
- Longevity of the manufacturer
- Financial capability of manufacturer
- Years of warranty
- Verification of Ty connections.
- Local firms specialized in this field must be verified

Additional recommendations were provided by an article below:

1. Perform a condition assessment to determine remaining material at pitting and threaded areas. Pipe lining does not provide any structural reinforcement of the pipe.
2. Review the quality manuals of the contractor for compliance with the governing documents for liner application.
3. Enforce, record, and document the testing and inspection at time of application and reconcile with ASTM standards.
4. Perform random destructive testing near completion of project when contraction is still on site to repair test section. Consider re-testing near the end of the warrantee period.
5. Identify, in writing, the contingency plan should any test or inspection fail at time of commissioning, or should a failure occur over the life of the warrantee period.
6. Assure that contractor warrantee matches manufacturers warrantee.

This Engineer has pursued multiple companies for pipe rehabilitation: Nu Flo, CIPP, Perma Lateral, and Telleborg.

This Engineer selected one of the above as first option. Although all liabilities of installations will be by the installation firm. This decision was based on standard or practices shown on their videos or their company profile. The general contractor must hold the installing contractors performance at the maximum performance as well as the warnings provided in this report by variations and citations given.

Certainly, other trenchless or cured in place piping companies can compete, however, they must meet the strict guidelines with highest and longest warranty for the installation.

The bidding process and the contract with the company must be verified by the Owners' Management, since they will hold the warranty of product as an end user.

Of course, this report was created to provide answers as well as creating questions on the subject.

Therefore all questions are welcome.

Saum K. Nour

There are number of articles on this subject and are attached as appendix.

- A. Epoxy Pipe Liner Failure by Dan Robles, PE
- B. What The Insurance Industry Needs To Know About Epoxy Water Pipe Liner by Dan Robles
- C. Pipe Liner Methods and Technologies by Dan Robles, PE
- D. Expert council from Balkan helps innocent homeowners. Multiple articles

Appendix A:

Epoxy Pipe Liner Failure

Prepared by: Dan Robles, PE

Community Engineering Services, PLLC

Abstract: Community Engineering Services, PLLC was retained to research the feasibility of epoxy pipe liners for application in a high rise condominium structure with a 50 year old galvanized steel potable water system. Engineering oversight can help assure that epoxy pipe liner applications are sold and performed with the expectation that professional standards must be applied, and independent testing must be performed, as a condition of the contract bidding price, bank funding, insurability, and associated warranty claims.

Epoxy Pipe Liner Failure

Introduction: This study was conducted upon request from a homeowners association as part of a wider investigation into appropriate technologies for renewing an aging galvanized potable water system. The concern is that a relative lack of balanced and factual information is available to the HOA regarding the risks and consequences of committing to epoxy pipe liner technology for repair and renewal of their potable water systems as an alternative to complete re-piping of their structure.

This case study is conducted from a small sample of epoxy failures encountered in the Pacific Northwest. The case study attempts to focus on vulnerabilities of all epoxy applications and does not attempt to isolate a particular supplier or contractor.

The greatest determinant of success or failure is the training and experience of the epoxy applicators specific to the characteristics of the system being renewed. Unfortunately, there are very few reliable methods to test an application and no option to mitigate application failures, except to re-pipe, anyway. Epoxy is a remarkable substance and it is assumed that Epoxy can be applied correctly, but the cost of doing so may match or exceed the cost of a re-pipe in modern materials. This report applies to Galvanized steel substrate.

Epoxy Pipe Liner Failure Summary Conclusions:

The following video demonstrates common epoxy liner failure modes correlated to available literature on epoxy liner vulnerability. The most common vulnerabilities of the epoxy lining system are associated with the planning and quality of the preparation as well as training of the applicator personnel.

The Following recommendations are provided for the HOA association when evaluating and Epoxy liner solutions for potable water system renewal:

1. Perform a condition assessment to determine remaining material at pitting and threaded areas. Epoxy does not provide any structural reinforcement of the pipe.
2. Review the quality manuals of the contractor for compliance with the governing documents for epoxy liner application.
3. Enforce, record, and document the testing and inspection at time of application and reconcile with ASTM standards.
4. Perform random destructive testing near completion of project when contraction is still on site to repair test section. Consider re-testing near the end of the warrantee period.
5. Identify, in writing, the contingency plan should any test or inspection fail at time of commissioning, or should a failure occur over the life of the warrantee period.
6. Assure that contractor warrantee matches epoxy manufacturers warrantee.

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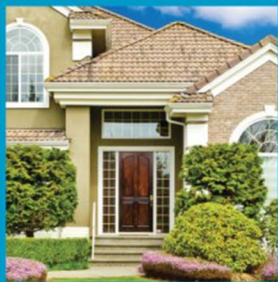
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TECHNICAL REPORT

By Carl Ludwig, VP Technical

Greetings everyone,

Thank you to all who attended our last Technical Meeting on February 28th, 2018, we had a great turnout. I would like to thank Eric Decker with Dawson Company who gave an excellent presentation on how to correctly size domestic hot water re-circulation pumps. Also, we want to give Eric a huge shout-out for passing the PE exam. Congratulations Eric that is a great accomplishment!

Moving forward, we are extremely excited to announce that our next Technical Meeting will be on March 25, 2018. The speaker will be Paul Schwartz with the University of Southern California. Paul will be presenting on the topic "What the Plumbing Engineer Needs to Know About Backflow Prevention". Paul received his Bachelor of Science Degree in Mechanical Engineering from the University of Southern California. He has been the Chief Engineer of the U.S.C. Foundation for Cross-Connection Control and Hydraulic Research since 1977, with responsibilities to oversee the Laboratory and Field Evaluation Program; instruct at the Foundation's training courses; and coordinate the update of the Foundation's Manual of Cross-Connection Control. Paul also maintains a Professional Engineer's License in the State of California. Paul's presentation will detail the different types of backflow conditions that may be found in a plumbing system, as well as the appropriate types of backflow prevention assemblies that may be used. The USC Foundation's Laboratory and Field Evaluation program, which leads to product Approval, will also be reviewed. This is an important topic that every Plumbing Engineer should know.

For our tabletop presentation, we will have the privilege of hearing from Linda Deunay with Enviro Products West. She will be educating us on Xerxes Tanks and Grease Guardian.

Please keep in mind that 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.

Look forward to seeing everyone on March 28th, 2018.

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ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

ASPE OC Administrative Secretary Report Board of Directors Meeting February 28, 2018

Called to order by President Chris McKnight at 4:12 PM.

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

First item of discussion was Revit classes. SCRUG Revit users group charges \$200 per person per class session. Question: Shall we set up our own class, estimated \$20,000 for five users, five attendees? Or \$12,000 investment? Saum Noor knows three architects that teach, \$40-50 an hour. Basic Revit software is for walls and floors, and then there is the advanced software for the plumbing side. Costs: Per Chris, Costco \$1000 each maximum for the computers; Revit educational package \$200 for a total \$1200 per package. Start with 4 to 5 computers. Carl Ludwig suggested email to all members to see how many are interested. Could offset some costs with state programs according to Saum. The state programs must offer to advertise to all. Suggested that we start with 4 computers; they pay \$200 per package - if they show up for all classes we will reimburse. Chris asked what the specs for the new computers are. Saum suggested just buying the most expensive from Costco (\$1000). Chris stated that there were bad reviews at Costco. Saum stated that we need to get commitments from instructors for full schedule. Chris offered to research, check out and purchase computers. Saum to contact Revit regarding student packages. Chris MacKnight moved to have Chris MacKnight research and purchase four computers, maximum \$1000 each; Saum to purchase student Revit packages (4). Bob Woods seconded; discussion followed. Amended to \$1100 including monitor and tax. Further discussion. Questioned limit on student edition cost. Passed unanimously. Chris: For students that bring their own computers and purchase software, we can reimburse them up to our cost if they attend all classes and pass tests. He then withdrew the motion. Saum stated that Autodesk offers free access for 3 year licensing. Jim Weil suggested that we charge for class, reimburse if passed. Chris recommended \$500 dollar charge for classes, Saum: \$250 dollar charge for classes. Chris moved \$400 dollars for classes, five sessions. Moved to reimburse if attending all, and pass test. Seconded; discussion, passed unanimously. Saum to report back on software situation before computers are purchased. Chris agreed.

Chris: ASPE national needs volunteers for two committees. Bylaws: Proposed changes are due July; read and comment by committee. Nominating Committee: Will get details and due dates. All meetings are by conference call or email. Open to all members. Saum stated it was good experience for those anticipating a run for national office.

Bob Woods: Treasurer Report. Chris stated that National wants monthly reports. Discussion. Jim moved to send regular monthly reports to National. Saum seconded. Discussion. Passed.

Saum spoke about future speaker topics. Could develop into series for tech meetings, but not consecutive.

Chris stated that he was happy with the health of the chapter, highest average attendees EVER. He then brought up Vice President

Membership duties; what's being done and not being done. Chris to make announcement at dinner meeting that we need someone to help out.

Meeting was adjourned at 5:30 PM.

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. (OSHDPD)

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- 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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ASPE OC ADMINISTRATIVE SECRETARY REPORT

By Jim Weil, Administrative Secretary

**ASPE OC Administrative Secretary Report
General Meeting February 28, 2018**

Called to order 7:03 PM by Chris MacKnight, President

Pledge of allegiance, led by Eric Decker

Announcements:

- ASPE National looking for volunteers for convention committees. Bylaws review, any member can volunteer, no experience necessary.
- Longtime member Bob McCook had passed away. Services are this weekend. Randy McCook, son and Gregory Morin, son in law, were recognized; a moment of science silence was held in memory of Bob McCook.
- John Zagorsky, golf committee update: Sponsorships slow. Tournament will be held May 11th at Brookside, Pasadena.

New member and guest introductions.

Self-introductions.

Technical Presentation:

Carl Ludwig announced the new technical series on hot water. He announced that tonight's speaker, Eric Decker of Dawson Company just received his PE. Saum Noor introduced the topic of hot water, and spoke about the new series and future related topics. Eric Decker presented the main topic, Sizing Hot Water Circulating Pumps. Questions from the audience and discussion followed. Carl presented the chapter Certificate of Appreciation.

Tabletop: Ira Schumer of Signature Sales gave a presentation on Mission Rubber products.

Announcements by Chris MacKnight:


- ASPE Plumbing Engineering Design Handbook Volume 2, Plumbing Systems manual review. The chapter is looking for volunteers. They are interested in new technology, not products.
- Vice President Membership: Volunteers are needed to help with follow up and reports to ASPE national.
- Revit classes: The chapter is buying computers and software. There will be five sessions, \$400 tuition, including computer and software use for the first four students. For students that attend all sessions and pass the test, the chapter will reimburse the \$400.

Raffle Prizes:

- Chris MacKnight started with his engineer-only prizes.

- Kelly Gilfoy, Spec Sales: gift card, beer, cookies
- ASPE Tables Handbook donated by Chris MacKnight and Jim Weil
- Jim Weil, Weil Aquatronics: gift card
- Chris Smith, Lubrizol: gift cards
- Anne Yardley, Elmco Duddy: wine and candy
- Spec Sales: wine (2)
- Delco Sales, Alex Jimenez: wine, gift cards
- David Wicketts, Wicketts Stainless: wine
- Ira Schumer, Signature Sales: wine, gift card
- UPPA: shirt

Meeting adjourned at 8:42 PM



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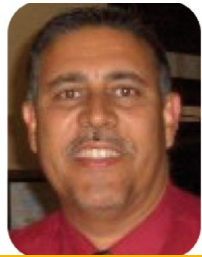
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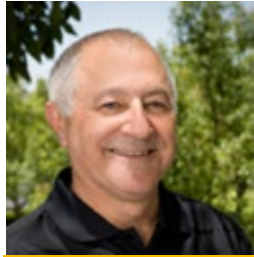
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