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**ASHRAE/IES Publish Updated Standard on Energy Efficiency in Existing Buildings**

A newly revised standard from ASHRAE and IES seeks to provide greater guidance and a more comprehensive approach to retrofit of existing buildings for increased energy efficiency. It provides comprehensive and detailed descriptions of the processes and procedures for the retrofit of existing residential and commercial buildings in order to achieve greater measured energy efficiency. Appendices are included for life-cycle cost analysis procedures as well as identification of potential energy conservation measures.

Standard 100 directly addresses a building’s energy-use efficiency in a quantitative manner and provides a means to improve that efficiency with an objective benchmark created with the assistance of the Energy Information Administration, the Federal Energy Management Program and Oak Ridge National Laboratory.

Recognizing that the actual occupancy of the building plays a key role in its performance, the standard establishes the need for development of an energy management plan and an operation and maintenance program. It also addresses the requirements for ongoing commissioning.

To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 678-539-2129, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

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**Want to get more involved in ASHRAE SD?**

If you want to get involved, speak to any chair at one of the monthly meetings or email this year’s chapter president, Hugh Egan, at hegan@nswcsd.com.
ASHRAE San Diego March Meeting - Boiler efficiency

When: 4:45 pm, March 24th, 2015 (Dinner meeting)

Where: El Adobe
31891 Camino Capistrano
San Juan Capistrano, CA 92675

Joint Meeting with Orange Empire! See below for bus details

Cost: ASHRAE Member – $40 ($35 early registration)
Non-Member – $50
Retired/Student – $20

Description:
Are you getting what you paid for when you buy a condensing boiler? Existing boiler testing standards do not effectively replicate “real world” conditions. Generally stated boiler efficiencies are unachievable in the field. This presentation will review current testing standards as well as the development of a better test standard (ASHRAE SP155). We will also address system design/operation and equipment variables that significantly impact boiler efficiency. Mr. Totten will discuss the best way to compare condensing boilers based on the information manufacturers provide.

Presented By:
Mr. Totten attended Western Michigan University where he received a BS degree in Mechanical Engineering. After college he worked as a Product Design Engineer for Armstrong International where he was awarded multiple patents. Later Tim worked as a manufacturer’s representative for Proctor Sales in Wilsonville, OR where he eventually became a shareholder. After an eight year stint at Proctor Sales he returned to the manufacturing side of the business by accepting a position in 2010 at AERCO International as a Regional Sales Manager.

General Info:
This is a joint meeting with the Orange Empire Chapter. We will be taking a bus from San Diego to the meeting location. We are looking for 3 bus sponsors if possible. When you register, the bust sponsorship can be added. We are limited to 30 people so register now. The bus will be picking us up at the park-n-ride at Governor Dr. and the 805. The bus will be there at 4:30p and we will leave San Diego at 5pm sharp, so please get there in time.

Click here to register!
ASHRAE San Diego Foundation Welcomes 2015 Board Members

Congratulations to the following newly elected board members of the 2015 ASHRAE San Diego Foundation (ASDF). You’ll recognize these names as long standing members of the ASHRAE San Diego Chapter who have actively volunteered for a variety of industry activities in the past. Please feel free to contact any of these board members to learn more about the ASDF.

Mike Burgess – Xpera Group
Mike Frazier – Curb and Vent Manufacturing
Walter Houle – ECS Controls
Bill Reagan – Q Applied Systems, Corp
Heather Schopplein – Haldeman, Inc (immediate past chapter president)
Terry Watkins - Norman S Wright Climatec
Verle Williams - CEM, CPMP, FASHRAE

ASHRAE San Diego Foundation – Meeting Invitation and Agenda

The ASHRAE San Diego Foundation welcomes all Chapter members to attend its upcoming meeting. Please RSVP to Bill Reagan at bill@QAppliedSystem.com so we can make accommodations.

Meeting Date: Tuesday March 24, 2015
Time: 4:00pm – 5:30pm
Location: NSW/Climatec Office
13715 Stowe Drive
Poway, CA 92064

Agenda
1. Welcome New Board Members
2. Review and approval of 9-29-14 minutes
3. Treasurer’s report
   a. Balances
   b. Sec. of State Status Update
4. SDSU Foundation
   b. Annual donation due 11/2015
5. 2014-2015 Obligations
   a. Chapter scholarships
   b. GSDSEF Awards
6. Continuation of the Foundation
   a. Value to chapter as a separate entity?
   b. Possible dissolution by December, 2015
   c. Bringing in key chapter members to discuss decision.
Proposed Energy Standard for Data Centers, Telecommunications Buildings Open for Public Comment

A proposed standard from ASHRAE providing requirements for energy use in data centers is open for public input.

ASHRAE Standard 90.4P, Energy Standard for Data Centers and Telecommunications Buildings, is open for its first public review until March 30, 2015. To read the draft standard and to submit comments, visit www.ashrae.org/publicreviews.

The standard would establish the minimum energy efficiency requirements of data centers and telecommunications buildings for design and construction and for creation of a plan for operation and maintenance, and for utilization of on-site or off-site renewable energy resources.

“The proposed standard is intended to work in concert with ASHRAE/IES Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings,” Ron Jarnagin, chair of the Standard 90.4 committee said. “There is no intent to duplicate what is contained in Standard 90.1, but rather we are proposing criteria to support the specialized nature of the larger data centers. When adopted, design and construction of data centers will require the use of both Standards 90.1 and 90.4 for compliance with building codes.”

David Quirk, chair of ASHRAE’s Technical Committee 9.9, Mission Critical Facilities, Technology Spaces and Electronic Equipment, noted that the intent of Standard 90.4P is to create a performance based approach that would be more flexible and accommodating of innovative change, which can occur rapidly in data center design, construction and operation.

Data center applications are unlike their commercial building counterparts in two significant ways, he noted. First, they include significantly higher plug loads. And second, they employ rapidly changing technology for the IT equipment and associated power/cooling approaches.

“It has been acknowledged that these differences drive a fundamentally different approach to regulating minimum efficiency requirements for the electrical and mechanical systems that support the plug loads,” Quirk said. “By using an approach that requires compliance to a ‘system’ level of performance, designers and end-users can utilize various trade-offs in their optimization strategizes depending on their company specific business models.”

There was also a recognition that current industry modeling tools do not possess all the necessary mathematical models to accurately and appropriately model data center HVAC and power design. As a result, demonstrating compliance to the 90.1 Chapter 11 or energy cost budget (ECB) approaches was deemed impractical, according to Jarnagin.

This standard is based on the principles of power use effectiveness (PUE), as defined by The Green Grid. However, because PUE is an operational measurement metric, and this is a design standard, PUE terminology is not a technically accurate usage. The committee recognizes that language needs to be developed to relate the calculations of energy efficiency set forth in this standard to a total efficiency number, as well as to allow tradeoffs between electrical and mechanical elements. Suggestions from reviewers as to how best to accomplish this are welcome, he said.

Jarnagin said the two committees are aware of some potential conflicts between the definitions of computer rooms and data centers in the standards. The intent is to address those conflicts once Standard 90.4 is approved and published.

The proposed standard applies to new data centers and telecommunications buildings or portions thereof and their systems, new additions to data centers and telecommunications buildings or portions thereof and their systems, and modifications to systems and equipment in existing data centers and telecommunications buildings or portions thereof.
Contribute to the Newsletter and Support ASHRAE SD!

Calina Ferraro
Randall Lamb
ASHRAE SD Newsletter Editor

Write an article for the newsletter and we’ll promote your company for free...
When you send in a contribution to the newsletter, we’ll post your company’s business card sized ad for free. You can write an article on HVAC related news, ASHRAE Regional or Society news, write a recap of a meeting… or anything else you can think of that our members would benefit from. If you would like to contribute, please email your submission by the 24th of the month. Email any questions/comments to cferraro@randalllamb.com.

Or you can advertise as follows:
Business Card 5 Issues; $80
Business Card 10 Issues; $140
Half Page (4.9” tall x 7.25” wide) Ad 1 Issue; $50
Half Page (4.9” tall x 7.25” wide) Ad 3 Issues; $125
Full Page (9.8” tall x 7.25” wide) Ad 1 Issue; $100
Full Page (9.8” tall x 7.25” wide) Ad 3 Issues; $250
Employment ads (text only at the end of the newsletter): $50 per issue

Submissions: Due by 24th of the month for inclusion in the newsletter issued the following month. Email submissions to: cferraro@randalllamb.com please include "ASHRAE SD Newsletter Ad" in the subject line.
Special thanks to Andy, Sarah, Heather, Calina, Aaron and Alex - the six ASHRAE volunteers that came out to help the Friends of Ruffin Canyon plant 100 new native plants and remove invasive species in Ruffin Canyon on February 7th, 2015.
### ASHRAE Learning Institute
#### 2015 Spring Online Course Series

**2 WAYS TO REGISTER**

**Take 3 or more courses and save 15% off registration!**

- **Internet:** [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)
- **Phone:** Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)
- **Note:** You may register up to 24 hours prior to an online course. Courses are in US Eastern Time.

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<tr>
<th>Course</th>
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<tr>
<td>Troubleshooting Humidity Control Problems</td>
<td>Wed, March 11, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Advanced High-Performance Building Design</td>
<td>Mon, March 23, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Commissioning Process &amp; Standard 202</td>
<td>Wed, March 25, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>IT Equipment Design Evolution &amp; Data Center Operation Optimization</td>
<td>Mon, March 30, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Complying with Standard 90.1-2013: HVAC/Mechanical</td>
<td>Wed, April 8, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Fundamental Requirements of Standard 62.1-2013</td>
<td>Mon, April 13, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Understanding Standard 189.1-2014 for High-Performance Green Buildings</td>
<td>Mon, April 20, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Complying with Standard 90.1-2013: Envelope/Lighting</td>
<td>Mon, May 4, 2015</td>
<td>1:00 pm to 4:00 pm EDT</td>
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<tr>
<td>Exceeding Standard 90.1-2013 to Meet LEED Requirements</td>
<td>Wed, May 13, 2015</td>
<td>1:00 pm to 4:00 pm EST</td>
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The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits.

- **Commercial Building Energy Audits**
  - Part 1 - Wed, April 22, 2015 – 1:00 pm to 4:00 pm EDT
  - Part 2 - Mon, April 27, 2015 – 1:00 pm to 4:00 pm EDT
- **Energy Modeling Best Practices & Applications**
  - Part 1 - Wed, April 29, 2015 – 1:00 pm to 4:00 pm EST
  - Part 2 - Wed, May 6, 2015 – 1:00 pm to 4:00 pm EST

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**HVAC Design Training**

**2 Courses, 5 Days of Intense Instruction**

- March 2015 – Atlanta, GA
- May 2015 – Chicago, IL
- June 2015 – Atlanta, GA

**HVAC Design: Level I – Essentials** - Registration is $1,239 ($989 ASHRAE Member)

Gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

**HVAC Design: Level II – Applications** - Registration is $829 ($679 ASHRAE Member)

In two days, gain an in-depth look into *Standards 55, 62.1, 90.1, and 189.1* and the *Advanced Energy Design Guides*. Training will focus on a range of topics including: HVAC equipment and systems; energy modeling; designing mechanical spaces; designing a chiller plant; and BAS controls.

Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register.
# 2015 Annual Tri-County Golf Tournament

**Registration (Before April 10th): $170.00 Per Player**
**Registration (After April 10th): $185.00 Per Player**

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<tr>
<th>Player Name</th>
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* Please write in "YES" or "NO" if you will bring a door prize.

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**Instructions:**
- Fax Registration Form(s) to Joe Sanders at (562) 695-8828
- Or Email: Joe.Sanders@DMGHVAC.com
- For Payment Through Credit Card/PayPal Email: lvilazana@wildan.com for Instructions
- Make Checks Payable to: Tri-County ASHRAE
- Mail Check(s) and a Copy of Registration Form(s) to:

Joe Sanders – DMG Corporation
1110 West Taft Avenue
Orange, CA 92865
(562) 692-1277

**Awards and Recognition:**
- Trophy and Cash Prize for 1st and 2nd Place
- Cash Prize for Closest to the Pin
- Cash Prize for Longest Drive
- Silent Auction
- Raffle Prizes

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**THURSDAY, APRIL 23RD, 2015**
**HIDDEN VALLEY GOLF CLUB**
10 CLUBHOUSE DR.
NORCO, CA 92860

**SCASH PRIZES, BOXED LUNCHES, AWARDS & DINNER AFTER TOURNAMENT**

**TEE TIME: 1:00 P.M.**
**Shotgun Format**

**REGISTRATION: 11:00 AM-1:00 PM (Free Range Balls)**

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ASHRAE San Diego “THE UPBLAST” 8
Who’s keeping up with ASHRAE SD?

Prove you and your company are keeping up with the events and activities going on in the ASHRAE San Diego Chapter!

Take a photo of this newsletter printed and ready for reading in you staff lounge, on the bulletin board, in your waiting area, or anywhere else that folks can stop and peruse and get mentioned in this section next month!

Email photos to: cferraro@randallamb.com by the 24th of the month to get included in the next newsletter. Please include "Keeping up with ASHRAE" in the subject line.
Start Spreading the News!!!

Something exciting to share? Have you or one of your ASHRAE friends or co-workers accomplished or experienced something noteworthy recently? Let us know all about it!

The San Diego ASHRAE Chapter is dedicated to keeping our community in touch. So please let us know if you have had any big changes or additions, or know someone who has: Had a baby? Get Married? Newly Divorced, single and ready to mingle? (hey, you have the right to celebrate too, if it’s that kind of party) Received a Degree? Win the Showcase Showdown on the Price is Right? You get the idea 😊

Contact our Newsletter Editor, Calina Ferraro at CFerraro@RandallLamb.com, and she will include your content appropriate updates on the members page of our monthly newsletter. We’d love to hear from you.
YEA San Diego is for young professionals in our industry who are 35 years of age or younger. This group will focus on issues more relevant to those who are relatively new to the industry. If you have any questions, comments, suggestions or would like to be added to the email list for future events, please let me know.

Greg Horm an & Calina Ferraro
YEASanDiego@gmail.com
ASHRAE San Diego YEA Co-Chairs

See http://www.ashraesd.org/yea.html for upcoming YEA events & info

YEA & BOMA Join Forces to Fight for Air

Join us on March 29th for the Fight for Air Climb up the stairs to the top of One America Plaza!

This year, YEA and BOMA San Diego are joining forces as a team to help raise money and awareness for improving lung health and preventing lung disease with the American Lung Association.

Click here to join our team! This is a fun event for a great cause and a perfect opportunity to put your own lungs and legs to the test climbing the tallest building in San Diego.

If you aren’t up for the climb or can’t make the date, support the team by donating to one of the participants here! As an added bonus, CBRE will double your money by matching the team's donations up to $2500!

Meet us for pre-climb coffee and breakfast at 8:00am on Climb Day (March 29th) at St Tropez Bakery & Bistro, 926 Broadway Circle, San Diego CA 92101.

Some facts for the climb:
- The climb is 657 steps up to the 32nd floor. (Don’t worry there is an elevator for the ride down!)
- It usually takes 7-12 minutes to complete the climb. The fire fighters (who do it in full gear) and super-speedy athletes can do it faster, but others take up to 15-20 minutes. There is no cutoff if you want to take your time.
- Climbers are spaced out to start one at a time, so you don’t have to worry about crowds as you’re climbing.
- Every climber has a minimum fundraising goal of $100. When you join the team, the American Lung Association automatically creates a personal page to help you reach this goal. If you see a climber on the team that hasn’t reached their minimum goal yet – help them out!
On February 24, 2015, thirteen YEA members and friends convened on East Tavern & Bowl in San Diego’s East Village to strut their bowling stuff and have a good time!
YEA Region X Las Vegas Weekend
April 24-26, 2015
(Most Events Around Harrah's and Caesar’s)

Miss hanging out with your fellow ASHRAE Region X members? Can't wait for CRC? Need an excuse to go to Vegas? Join us for the Region X YEA Weekend! Friends and family are welcome to join!

This weekend is very low key, you arrange your own travel, you choose your hotel, we plan the events and provide a calendar. Our flexible schedule will allow you to do your Las Vegas favorites and determine your own budget all while networking with other YEA members. You can choose what to attend, just make sure your RSVPing for each event, so we can get accurate counts for meal reservations!

Tentative Schedule (Please note that each person will be responsible for their own "check" at events):

- **Friday Night Dinner:** 7:30 PM, Guy Fieri's Vegas Kitchen & Bar, at The Linq Hotel & Casino (individual checks)
- **Friday After Dinner:** "Networking" (Location TBD), email me your ideas/suggestions! (individual checks)
- **Saturday Morning:** 8:00AM-12:00PM Hoover Dam Tour (depending on response we will either be carpooling or participating in a formal tour) *There will be a cost for this event, TBD
- **Saturday Afternoon:** 2:00 PM, Linq Hotel Central Plant Tour, No Cost!
- **Saturday Night Dinner:** 7:30 PM, Tao Restaurant, The Venetian Hotel (individual checks)
- **Saturday After Dinner:** Dancing at Tao Nightclub (individual checks)
- **Sunday Morning:** 11:00 AM Champagne Brunch Le Village Buffet, Paris Hotel (individual checks)


We hope to see you in Vegas!!! "Let the Good Times Roll"

Have any questions or suggestions? Contact Heather Schopplein, YEA Regional Coordinator at hschopplein@gmail.com or 707-318-4307
This is our page to recognize and acknowledge the events and accomplishments in the lives of our ASHRAE San Diego Chapter members.

We’re always looking for an excuse to celebrate each other and give a pat on the back. If you’d like to recognize someone in the ASHRAE Community, let us know! Contact me at cferraro@randalllamb.com.

Our ASHRAE San Diego Members Page!

http://www.ashraesd.org/html

ASHRAE San Diego Hosts Past-President and Distinguished Lecturer Bill Bahnfleth

While Bill Bahnfleth was in town last month to present information on ASHRAE’s Building Energy Quotient at the Chapter meeting, a handful of chapter members took the opportunity to show off some of the finer sights and cuisine San Diego has to offer.

You’re welcome back anytime, Bill!
EMPLOYMENT OPPORTUNITY

A.L.M. Consulting Engineers is currently seeking an HVAC Lead Design Engineer.

A.L.M. Consulting Engineers, Inc is a Mechanical Engineering firm providing mechanical engineering services and energy analysis for mechanical systems throughout the United States since 1993. Our San Diego office is seeking a Mechanical Engineer with the experience and expertise to draft and design HVAC systems; and manage projects from conception to completion with minimal supervision. The right person may also be considered for future company ownership.

JOB REQUIREMENTS:

- Minimum 5 years of experience designing HVAC systems
- Ability to AutoCAD draft, design and manage projects from conception to completion.
- Proficient with AutoCAD version 2014 and higher. Experience with Revit will be a plus
- Proficient with Excel
- Excellent verbal and written communication skills

Pre-employment drug and background screening are required.

E-mail resume/salary requirements: info@almengineers.com. No telephone calls please.
Rapidly growing MEP Consulting Engineering Company, ELEN Consulting, Inc. is looking for a Mechanical Engineer to join our San Diego based team.

About Us:
- Family-like work environment
- Comprehensive benefit package
- Meaningful recognition
- Authentic leadership
- Promote creativity and out-of-the-box thinking
- Training & Development-Focused
- Excellent Career Development opportunity

ELEN Consulting is more than a full-service mechanical, electrical and plumbing consulting engineering firm. We are a company of dedicated professionals who are passionate about our work and enjoy doing what we do.

About You:
The successful candidate will be professional, self-motivated, energetic, and enthusiastic. Previous experience working for a consulting engineering firm and project engineering experience are required. The other requirements are:
- Bachelor's degree in Mechanical Engineering
- Minimum 5 years' experience in design of HVAC systems for commercial, educational, health-care and military facilities.
- EIT or PE certificates
- LEED -- AP a plus
- Proficiency with Revit and AutoCAD
- Strong verbal and writing communication skills

Please submit resume to Info@elenconsulting.com.
EMPLMENT OPPORTUNITY

P2S—TOP MEP 100 Consulting Engineering Firm

We are currently seeking Senior, Junior and Entry Level Mechanical Engineers and Designers to join our teams in our San Diego and Los Angeles Offices.

If you have experience as a mechanical/HVAC consultant, engineer or designer within the healthcare, science, technology, industrial and data facility market sectors providing ME & P design/consulting services then we encourage you to apply!

WHAT WE NEED FROM YOU:
Be a valuable participant in a team that delivers mechanical (and multi-discipline) projects by satisfying clients' needs, meeting budget expectations and project schedules.

JOB REQUIREMENTS:
- Education: Bachelor’s Degree in Mechanical Engineering is a plus (or related industry experience)
- Engineer in Training Certificate or Professional Engineer License is a plus
- LEED Certification is a plus

EXPERIENCE:
Enter level to 10 years of experience, individuals who have recent experience working for a consulting engineering or engineering/architectural firm designing mechanical systems for facilities/buildings are preferred.

Experience in the following preferred:
- Integrated Design
- Energy Modeling
- Sustainable Energy

SKILLS:
Strong interpersonal skills and experience in maintaining strong client relationships are required with ability to communicate effectively with people through oral presentations and written communications.
Ability to motivate multiple-discipline project teams in meeting client's needs in a timely manner and meeting budget objectives.
Proficiency with the following is preferred - MS Word, MS Excel and MS Project, ACAD, Revit, energy modeling/analysis and compliance software.

WHAT WE OFFER YOU:
- Competitive Pay that includes 401(k)
- Excellent Full Benefit Package: We provide you with the benefits and flexibility that will help you and your family to stay healthy, enjoy quality time off and provide for your financial future.

To apply on line and for more exciting information regarding P2S Engineering visit us at:

http://www.p2seng.com

Applications for opportunities in the San Diego office should be sent to the attention of Paul Luster, PE.