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# American Society of Plumbing Engineers

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## President's Report

By R. Dennis Callahan

The cooler nights and warm days are a great break from our hot and humid summer and a brief pause before we start getting the colder weather of winter. Halloween and Thanksgiving are right around the corner, it's just one of my favorite times of the year.

Our October 4<sup>th</sup> meeting was well attended with Mr. Dave Purkiss from the National Sanitation Foundation speaking on drinking water systems standards. Eric Rogers has done a great job getting speakers lined up for our monthly meetings. Please let Eric know if there is any particular subject that you would like to be explored in one of our technical sessions.

While you are reading this newsletter, Eric Rogers, Paul Hellickson and I will be in Orlando Florida at Walt Disney world for the ASPE Technical Symposium. If you have any questions about the symposium, please feel free to talk to any one of us at our November meeting

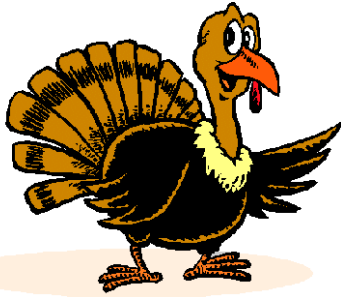
Make your Plans to attend the PSC/ASPE Trade Show, Tuesday November 1<sup>st</sup> at the Ameristar Casino in St. Charles. We will have our luncheon meeting there and we have pushed the starting time from 12 noon to 11:45 so that our speaker can get a full hour in plus our business meeting and still be able to start the 1:30 seminar. This would be a great chance to get some CEU's, see some new products and do some networking with your peers. There will be more information further on in this newsletter.

ASPE Illustrated Plumbing Codes Design Handbooks. Please remember to register at the sign in table before each meeting for your chance to win one of four copies of this book (you can only win one book). The winning names will be pulled out of a hat at our May 2012 meeting and you will not have to be present to win.

Our next meeting is November 1<sup>st</sup> at the Ameristar Casino. Eric has Mr. Tim Keane speaking on Legionnaires disease. Hope to see you all then.

Reminder.....those of you who attend the meeting and need CEU's, PDH's and PEU's, please make sure you mark the box accordingly, and those who need the St. Louis County credit, be sure and include your SSN in order to get the appropriate credit.

Please remember to RSVP to Mike Todd, and bring a friend along!



# Membership Anniversaries

## VP Technical Report

Eric P. Rogers

I think the October meeting was another success from the comments that I've been receiving. The speaker, Mr. Dave Purkiss, clarified NSF 61 for me, and I hope everyone in attendance. A brief summary of some key points are listed here:

1. NSF '61G' becomes national standard in 2014
2. NSF '372' covers lead content in plumbing fixtures
3. NSF '61G' covers both NSF 61 lead leaching and NSF 372 lead content
4. NSF '372' calls for <0.25% lead content in plumbing fixtures
5. NSF '61G' reduces lead leaching from 8% currently to <0.25% as of 1/4/2014
6. Leaching tests use PH levels from forty (40) different cities across the USA.
7. There are other testing labs:
  - a. NSF [www.nsf.org](http://www.nsf.org)
  - b. UL [www.ul.org](http://www.ul.org)
  - c. WQA - Water Quality Association [www.wqa.org](http://www.wqa.org)
  - d. IAPMO
  - e. CSA
  - f. Truesdail Labs [www.truesdail.com](http://www.truesdail.com)
8. NSF '61' and '61G' are tested at ambient temperature water, domestic (140 Degree F) and Commercial (180 Degree F)
9. Testing for NSF certification takes one (1) year or longer.
10. Testing starts certification, but unannounced factory visits, recalls, etc. are also part of certification process.

The upcoming **November** lunch presentation is to be a presentation from Mr. Tim Keane on the subject of Legionella.

**ABSTRACT:** Legionnaires' disease has been called the disease of modern plumbing systems. A recent CDC paper has confirmed that cases of Legionnaires' disease have been increasing annually since 2003. This program will review the relationship between Legionnaires' disease and plumbing system design, operation and maintenance as well as what a plumbing engineer needs to know to minimize the potential for outbreak and liability in cases where outbreaks do occur.

Continued on page 5



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# VP Legislative Report

By Paul Hellickson

## Code Updates

After many years of dedicated service I would like to announce that Jack Fischer has retired as the St. Louis County, Chief Plumbing Inspector. I would like to thank Jack for his many years of dedication and hard work.

The interim Chief Plumbing Inspector is Jim Showmaker. Jim's contact information is as follows:

Email: [jshowmaker@stlouisco.com](mailto:jshowmaker@stlouisco.com)  
 Phone: 314-615-7093  
 Fax: 314-615-8268

## Industry News

### Legislation to Protect Water Quality and Create Jobs Introduced

H.R. 3145: Water Quality Protection and Job Creation Act of 2011 proposes a federal investment of \$13.8 billion in wastewater infrastructure over five years through the renewal of the Clean Water State Revolving Fund, which also would help create thousands of new jobs in the engineering, construction, and clean water sectors.

### California Governor Signs Graywater Legislation

On October 8, Governor Brown signed Assembly Bill 849, which prohibits counties and other local government agencies from banning graywater systems, except in areas where special circumstances exist.

**Continued on page 5**

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**VP Leg.  
 Continued from page 4**

**Common Design Errors**

Beginning next month I will be posting something new in this section of the newsletter. The design errors that I will be focusing on will come from information I have obtained from speaking directly to the AHJ; either inspectors or plan reviewers. The topics will be specific to errors or omissions that can be directly connected to a specific section of the plumbing code and its local amendments.

Input on this section from others who have been "caught" by the AHJ during the permitting or construction process would be greatly appreciated. Please send to me the "design error", the city or county in which the error was found, the local plumbing code with sections related to the error and any contact information you have for the AHJ responsible for finding the error.

This is an attempt to minimize errors, give our clients a better product and of course minimize RFI's and change orders.


Help me help you ☺

**VP Tech  
 Continued from page 2**

**SPEAKER'S BIO:** Mr Keane has lectured on Legionella across the country. Tim has performed risk assessments and audits nationally and internationally and has been involved in outbreak investigations, remediation and litigation from coast to coast. He has worked with CDC, State and Local Health departments. His program will provide a unique opportunity for plumbing engineers to hear an engineering perspective of Legionella from an internationally recognized Legionella expert who is active in guidelines and standards development. We are also pleased to announce that Tim will be providing more detailed information in two (2) one and half hour (1.5 hour) **seminars only at no cost to ASPE chapter members.** The lunch and seminars will be worth education credits. Please see the attached schedule for times and subjects:

Please be sure to get your online or phone reservation into Mike Todd once you receive the email.

I look forward to seeing everyone at the upcoming meeting and seminar.



Sam Goodman  
 esisam@swbell.net

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	Lunch		Seminar 1			Seminar 2		
	12 - 12:30	12:30 - 1	1:30 - 2:00	2:00 - 2:30	2:30 - 3:00	3:20 - 3:50	3:50 - 4:20	4:20 - 4:50
<b>Introduction</b>								
Why the Concerns - Background and History and Future of Legionella and Legionnaires' disease								
Case Histories - First hand experiences in outbreaks, remediations and litigations								
<b>Waterborne Pathogens Overview</b>								
Microbiological - Habitat - Where does the bacteria grow and what impacts it's spread								
Clinical - What types of people are more at risk for Legionnaires' disease and why? Where are these at risk people most likely to be found?								
Building Types and Inherent Risks - Environmental Impact and risk based on design and operations								
Guidelines and Regulations - Impact of New Guidelines and Standards								
<b>Critical Issues</b>								
Legionella & Litigation -Why are Lawsuits so common with Legionella? Who gets sued and why? What are the outcomes?								
Designing and Maintaining a System to Minimize Legionella Risk								
HACCP Plan - Risk Assessment, Risk Management for Waterborne Pathogens to minimize liability and litigation and comply with standards and guidelines.								

SAVE THE DATE  
 NOVEMBER 1<sup>ST</sup> 2011  
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# November Birthdays

# Next Meeting

November 1st  
at Ameristar

## VP Membership

By Mike Todd

As a member of the board of directors for this chapter, we are always looking for ways to improve what we have to offer to our members. If changing the meeting location a few months a year makes it more convenient for members to attend, we certainly will consider making the move. If you have a suggestion for a future meeting location, by all means suggest it. Certainly there are numerous locations that would be perfect for a monthly meeting. Whether you send your suggestions to me or any other member of the board, we will look into it. We want you to attend meetings, and other chapter events. Whatever we can do to encourage your participation we will do. Let us know your thoughts and suggestions.

We are still offering the "BRING A FRIEND TO A MEETING". If you bring a guest to the meeting their lunch is free. This is only valid on their first meeting. We are increasing the non-member fee to \$25.00 and this will be whether they choose to eat lunch or not.

We are going to continue to offer the "tech session only" to aspe members for no charge

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## ASPE General Meeting Dates for 2010-2011 November 1st

Speaker Tim Keane

Topic will be Legionella

November meeting will be held at the Ameristar Casino in conjunction with the PSC trade show and will be followed by two seminars

Dec. 6th

Lunch meeting schedule

11:45 AM Social - 11:55 introductions- Tech Session During Lunch - Meeting Adjourned at 1:00PM

### NOTICE:

Affirmative response or self registration prior to meeting is considered a positive reservation for food and attendance. Should a NO SHOW occur, you will be billed for the dinner.

### Location

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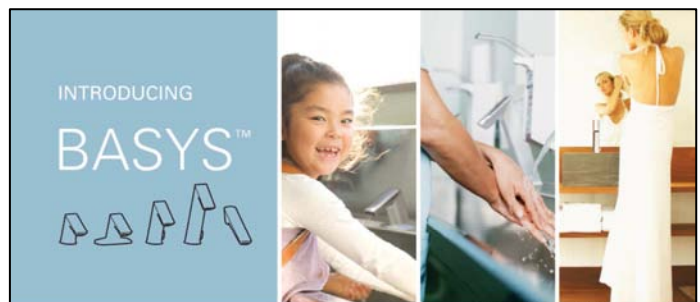
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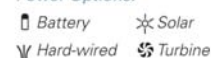


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## ASPE's New Career Center Makes Finding the Perfect Engineering Job Easy

When it comes to finding plumbing engineering positions, the mass-market approach of the online job boards may not be the best way to find the job you want. So, ASPE has created the all-new **ASPE Career Center** to give you a better way to find the perfect career fit. The ASPE Career Center is the ideal place to be seen by employers who are specifically looking for plumbing engineers and designers

### Career Advancement Made Easy

The new ASPE Career Center offers members—and the plumbing engineering industry at large—an easy-to-use and highly targeted resource for online employment connections. Whether or not you are actively looking for new employment, it makes sense to post your resume on the ASPE Career Center because you never know what opportunities may be out there looking for you.

The ASPE Career Center offers job seekers:

- Free online job search: All job-seeker functions are available at no charge.
- Confidential resume posting: Make your resume available to employers, and release your contact information only when you are ready.
- Job search agent: Create a password-protected account and receive automatic e-mail notification of new jobs that match your search criteria.
- Saved jobs capability: Save up to 100 jobs to a folder in your account so you can apply when you are ready.

### How Can the ASPE Career Center Help You?

ASPE has joined Boxwood Technology's Engineer Career Network, an interactive online job board already populated with numerous engineering-related positions at firms located across the country. You can search listings by keyword and then narrow the results by location, discipline, job level, or education level. By creating an account, you can apply for jobs on the spot or save them for further review, and you can post your resume to be noticed by engineering firms searching for their new employees. Best of all, the ASPE Career Center is FREE for job seekers.

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## Legionnaires' disease – The Disease of Modern Plumbing Systems and Costly Litigation

By Tim Keane

Prior to the 1900's, before central building systems and hot water storage became common, there was little potential for *Legionella* colonization in building water systems. Potable water storage, heating and distribution systems in buildings provided the mechanism for the *Legionella* bacteria to grow to disease causing levels. Because of this, Legionnaires' disease has been called – "The Disease of Modern Plumbing Systems". Many think cooling towers are the prime source of Legionnaires' disease outbreaks – 80% of outbreaks are from potable water systems.

### What has been done to reduce the risk of Legionnaires' disease associated with building water systems?

Changes in construction codes, regulations, plumbing components and designs, as well as degrading municipal water infrastructures and efforts to conserve energy and water have resulted in dramatically increasing the potential for *Legionella* colonization in building water systems adding new meaning to the term, "The Disease of Modern Plumbing Systems".

A CDC (U. S. Centers for Disease Control and Prevention) report dated August 19, 2011 included the following;

"U.S. legionellosis cases reported annually increased 217%, from 1,110 in 2000 to 3,522 in 2009, and the crude national incidence rate increased 192%, from 0.39 per 100,000 persons in 2000 to 1.15 in 2009. Because NNDSS is a passive surveillance system..., the actual incidence of legionellosis in the United States likely is higher."

"During 2000–2009, the 50 states and DC reported 22,418 cases of legionellosis to NNDSS. The crude national incidence rate increased 192%, from 0.39 per 100,000 persons in 2000 to 1.15 in 2009, and the age-adjusted incidence of legionellosis in the United States increased 170%, from 0.40 to 1.08 cases per 100,000 persons."

"Legionellosis incidence increased for all age groups from 2000 to 2009, ranging from 8% for persons aged ≤9 years to 287% for persons aged ≥80 years."

"A total of 1,220 (24%) cases involving U.S. residents were travel-associated; 81% of these involved domestic travel only, and 5% involved cruise ship travel."

"Of 3,872 (76%) U.S. resident cases with data available, 4% were associated with a known legionellosis outbreak or possible cluster."

Studies show that 25% of all Legionnaires' disease outbreaks are from potable water systems in buildings less than 1 year old, a definite and strong link between new construction and Legionnaires' disease.

Because of *Legionella* "DNA" testing, a match can be made giving a conclusive link between the water source and the victim. This cannot be done with other environmental pathogens such as mold or pseudomonas. This fingerprinting type testing makes Legionnaires' disease lawsuits a lawyers dream come true. The specter of a deadly bacteria in drinking water is an issue that can scare juries into awarding very large settlements. Because of this almost all Legionnaires' disease cases are settled prior to court and with confidentiality requirements in the settlement so no one can ever know who paid and how much. These confidentiality agreements help those paying money protect their reputation but results in no one learning from the significant and frequently very large payouts on Legionnaires' disease cases.

In Legionnaires' disease litigation typically everyone is sued owners, operators, designers, architects, mechanical contractors and equipment suppliers. Several Legal firms are focusing on just this one area of Litigation.



## Monthly Meeting & Speaker Program

Tuesday, November 1, 2011 | 11:45 a.m. – 4:50 p.m.  
Ameristar Casino

### TICKET COST

Members – \$18  
Non-members – \$25

Food and drink  
provided.

The ASPE meeting is  
in conjunction with

## PSC TRADE SHOW

1:30 p.m. – 7:30 p.m.

*Plumbing representatives  
and manufacturers feature  
the latest in plumbing  
products and technologies.*

### Join speaker **Tim Keane**, consultant to **Legionella Risk Management, Inc.**, as he addresses the following topics:

#### INTRODUCTION | SESSION 1 – LUNCH MEETING (begins at 11:45 a.m.)

12:00-12:30	<b>Why the Concerns</b>	Background and History and Future of Legionella and Legionnaires' disease
12:30-1:00	<b>Case Histories</b>	First hand experiences in outbreaks, remediations and litigations

#### WATERBORNE PATHOGENS OVERVIEW | SESSION 2

1:30-2:00	<b>Microbiological-Habitat</b>	Where does the bacteria grow and what impacts its spread?
	<b>Clinical</b>	What types of people are more at risk for Legionnaires' disease and why? Where are these at risk people most likely to be found?
2:00-2:30	<b>Building Types &amp; Inherent Risks</b>	Environmental impact and risk based on design and operations
2:30-3:00	<b>Guidelines &amp; Regulations</b>	Impact of new guidelines and standards

#### CRITICAL ISSUES | SESSION 3

3:20-3:50	<b>Legionella &amp; Litigation</b>	Why are lawsuits so common with Legionella? Who gets sued and why? What are the outcomes?
3:50-4:20	<b>Designing &amp; Maintaining a System to Minimize Legionella Risk</b>	
4:20-4:50	<b>HACCP Plan</b>	Risk Assessment, Risk Management for Waterborne pathogens to minimize liability and litigation and comply with standards and guidelines.

**TIM KEANE** has worked with Healthcare and Industrial facilities in the United States and internationally, implementing waterborne pathogen programs as well as consulting on water treatment issues. In the area of waterborne pathogen programs, Mr. Keane performs environmental risk assessments, develops and implements risk management plans, oversees remediation projects and performs outbreak investigations.

Please contact  
**Mike Todd**  
(Behrman Company)  
to register:  
314-631-4400  
miket@behrco.com

Presented by:



PLUMBING SUPPLIERS COUNCIL

**THANK YOU FOR SUPPORTING YOUR ORGANIZATION  
THE FOLLOWING PEOPLE ATTENDED LAST MONTHS LUNCH MEETING**

Aaron Backs	Murphy Company
Bill McKanna	Murphy Company
Bob Fanning	M/R Associates
Bob Hastings	IPEG
Bob Weis	Toto
Bruce McGuiire	McGuiire Sales
Carl Eichstaedt Jr	CSE Consulting
Cliff Temple	Ferguson Enterprises
Dan Goellner	Viega
Darrell Case	Aedifica Case
Dennis Callahan	Murphy Company
Don Behrmann	Behrmann Company
Don Muse	Viega
Don Sullivan	J.W. Sullivan
Eric Rogers	McClure Engineering
George Paubel	Kyhl Plumbing
Jim Eyre	Aedifica Case
John Benz	Dworkin Company
John Bosman	McFall Associates
John Fischer	St Louis County
Kelly Sulwer	IPEG
Kevin Pate	Gateway Representatives
Luke Wild	Aedifica Case
Mark Carnoali	McQueeny Lock
Mark Lukens	Ross & Baruzzini
Melanie Holden	National Sales Co.
Michael Sass	Spears Mfg
Mike Costello	American Sales
Mike Gianino	Wholesale Plumbing Supply
Mike Todd	Midwest Machine
Milt Loft	Mission Sales
Nick Hipp	Aedifica Case
Paul Hellickson	<a href="#">McClure Engineering</a>
Ray Swafford	Atlas
Robert Thomason	Albert Arno
Sean Graham	Mack McClain Assoc.
Steve Rosen	Schaefer Water
Tim Biscan	SFE/ Heinkel Sales
Yan Shifrin	

Jackpot was worth \$10.00  
 Names Drawn Were  
 Jeff Kuehn  
 Steve Rotskoff  
 Bill Inglis  
 none were present to win, next month's jackpot will be \$20.00

Attendance Prize	
Melanie Holden	I-Tunes Gift Certificate
John Bosman	Starbucks Gift Card
Jack Fischer	Bread Company Gift Certificate

50/50 Drawing	
Darrell Case	\$13.00
George Paubel	\$13.00
Eric Rogers	\$13.00

