Chicago ASPENews
Chicago Regional Chapter of the American Society of Plumbing Engineers
Vol. 43, No. 3
October, 2011

Chicago Chapter General Meeting
Thursday October 20, 2011
La Villa Restaurant & Banquets
3632 N. Pulaski Road
Chicago, IL 60641

FREE Parking!

AGENDA
5:30pm  Cocktail Hour, cash bar
6:30pm  Dinner, ($25 ASPE Members with RSVP/$30 Non-Members and Walk-ins)
7:30pm  Presentation – Active PH Neutralization / Industrial Waste Water Treatment
         Mark Girgenti – Burt Process

RSVP as soon as possible to Rick Butler, VP Technical!
⇒ Return the enclosed card for those of you getting this via US Mail
⇒ Call: 224 238.8515
⇒ Fax: 815 477.9984
⇒ Email: Chicago.ASPE.RSVP@gmail.com

MENU
Appetizers:
• Focaccia Bread
• Italian Wedding Soup (In Honor of Past President Jason McDonald)

Dinner:
• House Salad (with three dressings)
• Bow Tie Pasta
• Chicken Parmesan
• Italian Sausage (Peppers on the side)
• Green Beans Almondine
• Oven Roasted Potatoes

Dessert:
• Lemon Italian Ice

Beverages (included with dinner):
• Beer, Wine, Soda, Coffee, Water

Local Chapters are not authorized to speak for the Society
Thank you all for coming to our September meeting in Greek Town; this is definitely one of our favorite locations. During our first meeting, we had seventy-two people in attendance and fortunately most of them sent their RSVPs to Rick. The food was great and we had a very informative presentation by Richard Hanson from SyncroFlo.

Also, it was great to see a lot of familiar faces and we had several new people in attendance. Per popular request, we will continue with self-introductions every once in a while, this is a great way to meet new people. However, if you see new faces around, please take a minute to introduce yourself and make them feel welcome.

This was a busy summer, a few people got engaged, others settled down and are now happily married, there is at least one new baby, some switched jobs, and others were able to finally obtain one. We are proud to announce that another member was able to find work thanks to the ASPE Chicago Jobs Program.

ASPE Chicago Jobs Program
The Chicago Chapter has a jobs program going. We have a list of skilled professionals who are looking for work. If you are hiring, please email Jason McDonald at jsm@grummanbutkus.com or call him at 847 316-9204 and let him know what your criteria is. We will pass that information on to our members who are looking. Likewise, if you are looking for work, you can also let us know. This information will be kept confidential.

ASPE Chicago Scholarship
During our September meeting, the Board of Directors approved the ASPE Chicago Chapter Scholarship. This has been in the works for a while, the previous paved the road, and we were waiting until the economy was a little better.

ASPE Chicago Chapter, in an effort to promote the field of plumbing engineering, created the ASPE Chicago Chapter Engineering Scholarship to recognize a graduating high school student or college student who is/will be participating in an engineering curriculum.

ASPE Chicago Chapter will grant a maximum of two (2) $1,000 (U.S.) scholarships in any one application year. The scholarship will be awarded in one (1) $1,000 payment. The award will be paid directly to the college, university or technical school into the scholarship recipient’s tuition payment account.

Please go to our website for more information (http://chicago.aspe.org).

2011 ASPE Technical Symposium
As in previous years, ASPE Chicago Chapter gave away three free trips to the upcoming 2011 ASPE Technical Symposium (Oct. 27–30, 2011) in sunny Orlando, FL. These trips will include symposium registration, travel and lodging.

We received ten (10) applications. We thank you all for participating! The decision was very difficult, and unfortunately we can’t send everyone to the Symposium. However, if you were not selected for the free trip, please still consider attending. I promise you that you will NOT regret it! There will be great technical sessions and networking.

The 2011 ASPE Technical Symposium will be at the Buena Vista Palace Hotel, located INSIDE the Walt Disney World Resort. Please take advantage of this great opportunity and make it a working vacation by bringing your family along!

Register online or by mail: https://aspe.org/2011TechReg
Hotel: http://www.buenavistapalace.com/
Or just scan the QR (quick response code) on the left.

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PRESIDENT’S MESSAGE (cont’d)

2012 ASPE Chicago Plumbing Classes are back!
That is correct! After a two year hiatus, the ASPE Chicago Chapter Basic and Advanced Plumbing Classes will start again in March, 2012. David DeBord and Dan Fagan will be providing these great classes again. The syllabus and registration are included in this newsletter and will be available on our website (http://chicago.aspe.org).

Meeting etiquette is extremely important to continue having successful meetings. The Board of Directors works hard to provide you with great technical presentations at popular locations, and we thank you for treating each other with respect and professionalism. It is our goal to make sure you all feel welcome.

That’s it for now. I hope to see you all at La Villa on October 20, 2011. If you have any comments or suggestions please let us know, we are here to serve you, this is your Chapter.

Frank Sanchez, CPD; President
fxs@grummanbutkus.com; 847 316.9251

TECHNICALLY SPEAKING

September Recap
Again, the Parthenon did a great job accommodating us. We think we will try to get out there again later in the year. Thanks again to Richard Hansen of SyncroFlo and Fluid Technologies, Inc. for the technical presentation, AND hosting the cocktail hour. The Q&A Session afterwards was good, several good questions to keep Richard on his toes.

October Technical Presentation
Topic: Active PH Neutralization / Industrial Waste Treatment
Presented by: Mark Girgenti – with Burt Process Equipment

The requirement for pH adjustment and waste treatment is a common demand that spans various industries including manufacturing facilities, research laboratories, semiconductor manufacturers, food processing/bottling plants, and higher education institutions. While discharge limits vary from region to region the side effects of discharging outside these limits are the same, possible fines and damage to the environment. There are a number of different treatment schemes and equipment that can be applied to prevent effluent excursions. Active pH adjustment systems offer the widest versatility in treatment options these include; batch treatment systems, single/dual/three stage continuous flow systems, and hybrid designs. Membrane, precipitation and resin treatment can also be implemented.

The presentation will focus on the theory of pH adjustment including understanding the nature of the waste stream with specific focus paid to batch systems, continuous flow systems, residence time, treatment chemistry selections, process design, titration data, and control schemes. Several case studies will be reviewed exploring many of the facets of designing a system in different industries. In addition, alternate and additional treatment schemes such as membrane treatment and resin use will be discussed.

About the Presenter: Mark Girgenti, is the lead sales and design engineer for Burt Process Equipment an environmental process design firm. Mark has spearheaded the design, integration, project management, and construction of water treatment equipment for pH adjustment, rain harvesting, gray water, and high purity water systems in the government, institutional, and pharmaceutical industries both in the United States and abroad. As an upcoming engineer with over 6 years of experience, he brings a unique understanding to these projects from a process engineering and chemistry perspective as opposed to the traditional mechanical approach from his years of study and publication record in membrane separation technologies. Mark holds a bachelor’s degree in chemical engineering from Rensselaer Polytechnic Institute and a master’s of science in chemistry. He is actively involved in academic circles as a professional member of the graduate advisory committee for Southern Connecticut State University as well as serving as a volunteer faculty member.

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Burt Process Equipment, a leader in wastewater treatment technologies, has been providing successful solutions to environmental problems for institutions and industrial firms since 1970. Waste minimization and closed-loop recovery systems can often be utilized to eliminate the need for permitting and monitoring. In addition to their standard pH neutralization packages, they provide systems for hexavalent chrome reduction, metals precipitation, and selective metals removal via ion exchange.

With water conservation really starting to become an issue these days, it is more important that we do not contaminate the water we have. It will be interesting to see the new technologies available today.

Please join us at our October meeting, we are headed back to, I would say, our base camp:

La Villa
3632 N Pulaski Rd.
Chicago, IL

SEE YOU ALL THERE!!!

Finally, you still have time to get down to sunny Florida for the Symposium. If you have not been to one, they are very educational and fun.

Rick Butler, Vice President Technical
rbutler@lochinvar.com; 224 238.8515

SEPTEMBER MEETING ATTENDANCE

The following list of individuals attended the September 15, 2011 meeting of the ASPE Chicago Chapter. In accordance with ASPE Society policy, these individuals are entitled to 0.75 RU’s towards the required 24 RU’s needed every two years to maintain CPD registration. Meeting attendance is also recognized by the Illinois Department of Professional Regulation to count as 1 PDH towards the required 30 PDH’s needed every two years to renew Professional Engineering licenses.

Andrew Dailey  George Sobrya  Ray Cruz
Anthony Dauginas  Herb Hymen  Richard Hanson
Ben Rubach  Jaimi Stroot  Rick Butler
Bob Dahlmann  Jason Romano  Robert Thompson
Bob Jackson  Jason Waterwash  Sal Hamdi-Pacha
Brandon Taylor  Joe Ficek  Scott Baron
Chris Wisinski  Joel Maevs  Sean Allard
Craig Shannon  Joel Pedigo  Sean Rains
Dan Fagan  John Nieman  Sergio Cano
Danielle Schenkoske  John Stanzi  Terry Morgan
Darren Rich  Larry Radclatz  Tim Smith
David DeBord  Mark Kaulas  Tom Babcock
David Erickson  Mark Mannarelli  Tom Brown
David Hood  Matt Keller  Tom Dolan
David Lehman  Meghan Johnson  Tony Diefenbach
Dee Vargas  Mel Withrow  Tony Gasciach
Dennis Richards  Michael Cwanek  Tony Navarro
Dick Simms  Mike Imaoka  William Bauer
E.J. Kedzie  Mike Temes  Zak Bednarski
Ed Lichner  Nevo Martelli
Elizabeth Mauhan  Otton Finiewicz
Ernest Harvan  Panagiotis Bakos
Francisco DeHoyos  Paul McLafferty
Frank Sanchez  Phil Blazic
Gabriel Gomez  Phill Kroll
It was great to see the familiar faces and a few new faces at our first meeting of 2011 at the Parthenon. Thanks again to the beer sponsor SyncroFlo for the pre-meeting open bar (that always appears to be a big hit). I have shared below a brief explanation on the different roles that standards and codes affect us in the industry today from the Plastic Pipe and Fittings Association (PPFA) along with a listing of potential websites for additional information.

The Role of Model Codes - http://ppfahome.org/coderole.html
Model codes are: a comprehensive model. A model code, like a product standard, but must be adopted by a governmental jurisdiction to become "law". However, over the years, model codes have formed either the reality or the basis for building regulatory requirements of and for virtually all major governmental jurisdictions.

Model codes are usually written, published and maintained by membership organizations comprised of code enforcement officials. These organizations provide a variety of other important services to their members. These services include but are not limited to:
- Testing and certification of building inspectors;
- Plan review, to determine compliance with the code;
- Listing services, a manner of identifying a product to the inspectors in the field;
- Compliance services, evaluating manufacturing facilities;
- Product evaluation programs;
- Code interpretations.

Product standards set out the minimum requirements and/or criteria of products that must be met for specific uses or applications. All product standards, as used in the plumbing industry, are usually voluntary, national-consensus standards. These standards are vital to the industry because they usually serve as the basis (Standard) for both code requirements and proof of compliance, i.e. conformity assessment (3rd party certification) criteria. There are three forms of certifications that are followed in the United States: Voluntary, national and consensus standards. These standards form the regulatory basis for the acceptance and use of most plumbing products. Below is a definition of each meaning.

Voluntary
Standards are voluntary only from the standpoint that once they are adopted as an ANSI or an ASTM standard, for example, they do not automatically become part of the formal regulatory process. This occurs only when a governmental jurisdiction (state, county, city, special district) and the Great State of Chicago adopts such a standard as an enforceable, legal requirement. Standards also cease to be voluntary when a specifier requires compliance with such a standard as part of a bid request, or when a buyer uses such a standard as the basis for a contract with a seller.

National
Standards within plumbing industry scope of interest are normally national in that they are recognized and have applicability across the nation. This recognition is vital to manufacturers because it provides some assurance of consistency among regulatory authorities referencing these standards for compliance purposes.

Consensus
Consensus as used here primarily refers to a method or a process, not just to a definition. The consensus process is a means by which a standard achieves general agreement among all materially affected parties. It means far more than a "simple majority", therefore a consensus between certain organizations or parties as mentioned previously, for example: IAPMO and ASPE agree upon the design and installation of Siphonic roof drainage Design.


Newseum
Knight Conference Center
555 Pennsylvania Ave. NW
Washington DC, 20001 (continued on page 6) -------------->
LEGISLATIVE REPORT (cont’d)

The country has numerous standards, governmental and industry organizations and I have outlined a few below that can be accessed through the following internet sites:

- ASSE, American Society of Sanitary Engineers - www.asse-plumbing.org
- ANSI, American National Standards Institute - www.ansi.org
- CSA, Canadian Standards Association - www.csa.ca
- NFPA, National Fire Protection Association - www.nfpa.org
- NIST, National Institute of Standards & Technology - www.nist.gov
- UL, Underwriters Laboratories, Inc. - www.ul.com
- EPA, Environmental Protection Agency - www.epa.gov
- PPI, Plastics Pipe Institute - www.plasticpipe.org
- AWWA, American Water Works Association - www.awwa.org
- NIBS, National Institute of Building Sciences - www.nibs.org

Mark Mannarelli, Vice President Legislative
mmannarelli@esdglobal.com; 312 456.2354

MEMBERSHIP REPORT

Organizations have purpose, at least, they are supposed to. By organization, I mean a group of people with a common set of goals. I understand anytime one discusses a group of people, there are always exceptions; however, an organization is meant to gather those of mutual interest for the benefit of all contributors or, perhaps the benefit of everyone. ASPE has a purpose, the official mission statement is:

“The core purpose of the American Society of Plumbing Engineers is to continually enhance and promote the profession of plumbing engineering while assisting in improving the safety and well being for the public on a global scale.”

You have helped achieve this purpose when you attended an ASPE meeting. Perhaps you have given or attended a technical presentation. Some have used their expertise in contributing to adopted codes and standards. Even simple networking with your ASPE peers is contributing to the ASPE purpose. This is because of the fundamental idea that ASPE Society and Chapters exist because of the ASPE Members. The members make ASPE and ASPE gives back to its members. Globally, there are currently over 6,000 active members in ASPE. These people provide technical expertise, contribute to professional development and collaborate with other reputable organizations. They sat next to you at The Parthenon last month. They are students, professionals and industry representatives. This year, every third Thursday, our Chapter will gather and have a great time. While you are here, I ask that you occasionally remind yourself that you are member to a group of people with a purpose. Let us realize the true value of ASPE by being cognizant of each other and the greater good that benefits from our time and effort of the ASPE Society.

Tony Navarro PE, Vice President Membership
tnavarro@lehmandesigninc.com; 312 201.9733

NOT AN ASPE MEMBER? JOIN TODAY!
https://aspe.org/Membership

YOU CAN RENEW ONLINE, TOO!
https://aspe.org/RenewMembership
Greetings, the fall season is here. The September Chicago Chapter Meeting was a success - great presentation by Richard Hanson from SyncroFlo, good Greek food, and excellent attendance. A total of 72 members attended the event.

50/50 Raffle. This month’s winner was John Stanzi. This month the Chicago Chapter will donate $130.00 to The Wounded Warrior Project, which is a great charity organization that honors and empowers wounded soldiers and their families.

http://www.woundedwarriorproject.org/

The Chicago Chapter gave away three free trips to the 2001 ASPE Technical Symposium in Orlando, FL.

The winners are:

Brandon Taylor, Primera Engineers
Damon Cameron, dbHMS Engineering
Phillip Kroll, Metro Design Associates

The winner of our free dinner drawing (comprised of all who RSVP’d 48 hours or more prior to the meeting) was Terry Morgan of FTI Pumps and Controls.

2011 Chicago Plumbing Product Show Booth awards were presented during dinner to:

FTI Pumps and Controls
Viega Pro-Press
Riddile Associates, Inc.

Congratulations to all our winners!

Francisco DeHoyos, Administrative Secretary
fdehoyos@dbhms.com; 312 915.0557 ext. 251

ASPE CHICAGO OFFERS PLUMBING ENGINEERING BASICS COURSE

The Chicago Chapter is proud to begin offering our continuing education course in Plumbing Engineering Basics, starting in the Spring of 2012. The course will be held Wednesday nights at the offices of ESD, 175 W. Jackson Blvd. in Chicago. The course consists of two semesters of 8 weeks each, and was last offered in 2008. Those who have participated in previous years overwhelmingly agree that the course was a worthwhile and outstanding value. For course description and information on how to register, see the flyer included with this newsletter.
October brings us another exciting month filled with great technical seminars and presentations within our industry. Before the snow gets here (yes I said snow), attend one of following industry meetings. If there is an organization you would like me to contact, please send me an e-mail at kseier@esdglobal.com.

American Society of Sanitary Engineering (ASSE) (www.asse-plumbing.org/Chapters/region04_il.html)
October ASSE Meet and Greet
October 17, 6:00pm Social time
Piscateers Club, 718 East 142nd St., Dolton, IL
2011 ASSE Annual Meeting
November 9 – 12
New Orleans, LA
Cost: $150 Members, $200 Non-members
http://asse-plumbing.org/am11.html

PAMCANI (www.pamcani.org)
PAMCANI has developed an industry-wide calendar listing events throughout the year of plumbing and piping industry organizations including ASPE Chicago. Go to www.piccal.org.

Society of Fire Protection Engineers (SFPE) (www.chicagosfpe.org)
October Chapter Luncheon Meeting – Viability of Fire Protection Engineering
Monday, October 3
11:30am sign-in with lunch at 12:00 noon
Petterino’s, 150 North Dearborn Street, Chicago, IL
Cost: Members with reservations $25, Members walk-in and guest $30, Firefighters in uniform $15, fulltime students with valid ID $10
Contact Jessica Dahl at jhubert-dahl@janusfiresystems.com or http://chicagosfpe.clubexpress.com

The 1st Annual Fire Alarm Summit
Friday, October 7, 2011
8:00am – 4:30pm (Registration 7:30am, Speaker begins at 8:30am)
Medinah Shriners, 550 Shriners Drive, Addison, IL
Cost: $25
Register at www.IL-AFAA.org or call 847-847-3200

Illinois Fire Prevention Association (IFPA) (www.ifpanet.org)
IFPA October Meeting
Tuesday, October 11, 2011; 7:00pm
Presentation: TBD
Glendale Lake Golf Club, 550 President Street, Glendale Heights, IL
Cost: $40.00 for dinner
Contact/RSVP: http://www.ifpanet.org/RSVP.aspx?
DB=Cal&ID=42 at www.ifpanet.org

Illinois Chapter of ASHRAE (www.illinoisashrae.org)
ASHRAE Chapter Meeting
Date: Thursday, October 11, 2011
Time: TBD
Location: TBD
Cost: TBD
Contact/RSVP: www.illinoisashrae.org

HV/AC&R Design Basics Seminar Series (24 PDHs)
Thursday Evenings from September 22 – November 10
6:00pm – 9:00 pm
ITT B&G Little Red School House, 8200 N Austin Ave, Morton Grove, IL
Cost: $375 (if paid by Sept 16), $425 afterward

USGBC – Illinois Chapter (LEED)
Events Calendar - http://usgreenbuildingcouncilchicagochapter.roundtablelive.org/calendar?
EventView-
Mode=16&EventListViewMode=2&SelectedDate=9/22/2011&CalendarViewType=1

National Fire Prevention Week is October 9-15
Make sure to check your smoke detectors!
In a few short days you can:
- Mingle with plumbing engineers from across the country
- Identify what design methods you need to increase your skill set
- Discover innovative ideas to take back to the office
- Find out what industry segments will be hot in the next year
- Pick the brains of experts working in the field
- Grow your knowledge...and your career

**NEW This Year! Networking Roundtable Discussions**
Partake in a lively conversation on the latest plumbing engineering issues with your peers from across the country.

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### Friday Technical Sessions (tentative)

<table>
<thead>
<tr>
<th>Time</th>
<th>Plumbing 101</th>
<th>Sustainable Design</th>
<th>Fire &amp; Life Safety</th>
<th>Advanced Plumbing Design</th>
<th>Project Management</th>
<th>BIM (limited to 25 att.)</th>
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</thead>
<tbody>
<tr>
<td>2:45pm - 5:45pm</td>
<td>Domestic Water Booster System Sizing &amp; Specifying - Richard Hanson</td>
<td>Rainwater Harvesting - Mark Girgenti</td>
<td>Hydraulic Calculations - Jim Lake</td>
<td>Modern Design of Storm Drainage Systems (ASPE RF)</td>
<td>Cost Estimation - Dave Jones, CPD, LEED AP BD+C</td>
<td>Beginning - Marvin Titlow*</td>
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### Saturday Technical Sessions (tentative)

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<tr>
<th>Time</th>
<th>Plumbing 101</th>
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<th>Project Management</th>
<th>BIM (limited to 25 att.)</th>
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<tbody>
<tr>
<td>2:15pm - 5:15pm</td>
<td>Water Heater Sizing - Joe Scott, CPD, LEED AP, FASPE</td>
<td>Plumbing Fixtures: Water Conservation - Peter Jarling</td>
<td>Medical Gas Verification - Richard Miller, OMGI</td>
<td>Physical Water Treatment - Stephen Callahan</td>
<td>Success for the Design Engineers and Building Official - Lee Clifton &amp; Julius Ballanco, PE, CPD, FASPE</td>
<td>Advanced - Marvin Titlow*</td>
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### Sunday Technical Sessions (tentative)

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<tr>
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# 2011-2012 ASPE CHICAGO MEETING SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Technical Presentation</th>
<th>Location</th>
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<tbody>
<tr>
<td>September 15, 2011</td>
<td>12 Myths of VFD Booster Systems presented by Richard Hansen of SyncroFlo/FTI Pumps and Controls</td>
<td>Parthenon 314 S Halsted St Chicago, IL</td>
</tr>
<tr>
<td>October 20, 2011</td>
<td>Active PH Neutralization/Industrial Waste Treatment Present by Mark Girgenti of Burt Process Equipment</td>
<td>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</td>
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<tr>
<td>December 15, 2011</td>
<td>Booster Night - Special Entertainment</td>
<td>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</td>
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<tr>
<td>January 19, 2012</td>
<td>ASPE Chicago Movie Night Related to Plumbing Industry</td>
<td>La Villa Restaurant 3632 N Pulaski Rd Chicago, IL</td>
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<tr>
<td>February 16, 2012</td>
<td>Legionella, Other Waterborne Pathogens and Electric Faucets Discussion on new ASHRAE Legionella Code Presented by Delta Faucets</td>
<td>Parthenon 314 S Halsted St Chicago, IL</td>
</tr>
<tr>
<td>April 19, 2012</td>
<td>41st Annual ASPE Chicago Product Show and Seminars  (seminar suggestions are welcome!)</td>
<td>White Eagle 6839 N Milwaukee Ave Niles, IL</td>
</tr>
<tr>
<td>May 17, 2012</td>
<td>Sales for Engineers Emergency Wash Stations Reduction of Lead in Drinking Water Act Tour related to plumbing</td>
<td>Westwood Tavern &amp; Tap 1385 N Meacham Rd Schaumburg, IL</td>
</tr>
<tr>
<td>June 21, 2012</td>
<td>Annual Golf Outing</td>
<td>Hilldale Golf Club 1625 Ardwick Drive Hoffman Estates</td>
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</table>

If you would like to present any of these topics or become a meeting sponsor, please contact Rick Butler at rbutler@lochinvar.com, 224-238-8515