



# St. Louis Section News

"The home of the American Society of Mechanical Engineers, St. Louis Section"

[www.asmestlouis.org](http://www.asmestlouis.org)

January 2017

**ASME** helps the global engineering community develop solutions to real world challenges. Founded in 1880 as the American Society of Mechanical Engineers, ASME is a not-for-profit professional organization that enables collaboration, knowledge sharing and skill development across all engineering disciplines, while promoting the vital role of the engineer in society. ASME codes and standards, publications, conferences, continuing education and professional development programs provide a foundation for advancing technical knowledge and a safer world.

## Next Section Meeting:

### **AutoStore, Automated Warehouse Tour**

February 1st, 2017 @ 5:30pm  
6750 Manchester Ave.  
St. Louis, MO 63139

## Next Board Meeting:

February 8th, 2017 @ 5:30pm  
CJ Muggs  
101 W Lockwood Ave, Webster Groves, MO

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## **Year At A Glance**

### **Sept**

Linkedin Workshop

### **Oct**

Vodka Distillery Tour

### **Nov**

Bastian Robotics

### **Dec**

Wash. U. Materials Tour

### **Jan**

Automated Warehouse

### **Feb**

\*Choc. Choc. Choc. Tour

### **Mar**

\*Student Design Report

### **Apr**

\*Arch Reactor & SLSC

### **May**

May Social

### **June**

Student Workforce Intro

### **July**

\*Networking Event

### **Aug**

Eng. Club Student Sendoff BBQ

\*Tentative



# AutoStore, Automated Warehouse Tour



Please join us for a unique opportunity to tour a state-of-the-art automated warehouse using the AutoStore goods-to-person picking system. The AutoStore system utilizes a dense grid of bins to store up to 400% more inventory in the same space as traditional warehousing methods. Bins are brought to the operators by special AutoStore robots working above the grid.

The system was implemented by Bastian Solutions, a leading worldwide material handling systems integrator. More information on AutoStore and other goods-to-person systems visit [www.bastiansolutions.com](http://www.bastiansolutions.com) or [www.youtube.com/bastiansolutions](https://www.youtube.com/bastiansolutions).

## How AutoStore works:

An AutoStore system is comprised of 4 main components: a structural grid, delivery robots, storage bins, and operator ports. Products are stored in stacked bins within the dense aluminum grid. As a product is needed to fulfill an order, the system software and controls alert a robot to find the bin containing the item.

If the bin is buried beneath other bins, a robot stages the extra bins on top of the grid until it retrieves the desired bin. It then takes that bin to the edge of the grid and delivers it to the operator fulfilling the order. As the bin is delivered, another AutoStore robot cleans up the staged bins on top of the grid by returning them to their original position.

As this process continues, the AutoStore system self-profiles, meaning the bins with faster moving products begin moving toward the top of the system, and bins with slower moving products transition to the bottom.

This event is being presented courtesy of Bastian Solutions and is open to ASME members only. Space is limited to 30 participants. Advance registration and photo ID are required.

## Event Details:

5:30pm - 6:30pm     Facility Tour  
6:30pm - 7:30pm     Networking/Dinner

Dancewear Solutions  
6750 Manchester Ave  
St. Louis, MO 63139

Pizza and soft drinks will be provided.  
Cost: \$5 for ASME members and guests  
Free for Students

RSVP: Please RSVP by Tuesday, January 24th by completing the form at [ASMEStLouis.org](http://ASMEStLouis.org) or by email to [mesrou\\_m@yahoo.com](mailto:mesrou_m@yahoo.com).

Please provide name(s); email address; phone number; whether ASME member, guest, or student; and total number of attendees. Please inform us if you have any special dietary needs.

## Engineering Center Events 2016-2017



THE  
ENGINEERING  
CENTER

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# Events

Every Month

Second Friday Professional Development Seminars	Third Monday Engineers' Club Fellowship Night	YP Happy Hour Held regularly throughout the year
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**Friday, December 2, 2016**

*Annual Holiday Party, time and location TBD*

**Friday, January 27, 2017**

*Engineers' Club Trivia Night, The Engineering Center*

**Wednesday, February 22, 2017**

*Engineers' Week Luncheon, Clayton Plaza Hotel*

**Friday, April 7, 2017**

*Engineers' BBQ, The Engineering Center*

**Friday, June 2, 2017**

*Annual Dinner, The Engineering Center*

**Events at the Center help you grow and succeed. Widen your sphere of influence, develop relationships with other leaders and help build a stronger, more vibrant region.**

**For more information, visit [engineeringcenter.org](http://engineeringcenter.org)**



**Monday,  
October 10**

**2016 Annual  
Jake Jare Memorial  
Golf Tournament  
Whitmoor Country Club**

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## **Annual Engineers' Week Luncheon: Hear From the Leader of the Flint Water Crisis**

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*Marc A. Edwards*  
Professor of Environmental and Water Resources Engineering  
Virginia Tech University

Presented by The Engineering Center of St. Louis, Environmental Water Resource Institute, and Missouri University of Science & Technology

Thursday, February 23, 2017  
11:30 am, registration  
Ballroom at the Clayton Plaza Hotel

Join us at the Annual Engineers' Week Luncheon  
as we celebrate our profession and our accomplishments.

Guest Speaker Professor Marc A. Edwards, the engineer and professor that uncovered the Flint, Michigan water crisis, will discuss the failed decision process that led to the critical situation in Flint and why the quality of our nation's water supply is one the most important issues facing the engineering profession in the 20th Century.

Tickets & Tables on sale next week!  
Sponsorships available now!!  
Please contact Joy David at 314-533-9336 or email [joy.david@engineeringcenter.org](mailto:joy.david@engineeringcenter.org) for more information.



# Professional Engineer Refresher Course



These review courses are geared toward helping participants pass the Professional Engineer (P.E.) license exam. Spring classes will be held in the fields of:

- Civil- Water Resources, Geotechnical
- Transportation, Construction, Structural
- Electrical-Power
- Mechanical-Mechanical Systems/Materials
- Hydraulics & Fluids, Energy & Power Systems, HVAC/Refrigeration

Course fee includes a three-ring binder, lecture notes, certificate of completion, and CEU's.

It is recommended that participants purchase their discipline's desk reference manual prior to the first class. Desk reference manuals can be obtained by going to the following website: <http://ppi2pass.com>

#### Registration Fee

MSPE & SAME Members ..... \$550

ASCE, ASME, ASHRAE, & IEEE ..... \$600

Non-Members ..... \$650

Proceeds of the course go toward the MSPE Scholarship Fund.

#### Deadline for Registration:

Wednesday, January 26, 2017

#### How to Enroll

- Online – To register online, go to [www.stchas.edu/learnforlife](http://www.stchas.edu/learnforlife)
- In Person – Walk into 103 HUM with completed registration form and payment.  
Registration hours:
  - 8 a.m. – 5:30 p.m. Mon-Thurs.
  - 8:30 a.m. – 4:00 p.m. Fridays
  - After-hours drop box in HUM hallway
- By Phone – Call 636-922-8233 during the hours listed above. Telephone registration: VISA,

Discover, and MasterCard only accepted as payment.

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## **Rotary Club - Engineer's Day Celebration**

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# Rotary Club

of St. Louis, Missouri



## ENGINEER'S DAY THURSDAY, MARCH 2, 2017

**SPEAKER:** UNITED STATES AIRFORCE ACADEMY

**LOCATION:** MISSOURI ATHLETIC CLUB (MAC) DOWNTOWN – MISSOURI ROOM –  
SECOND FLOOR

**TIME:** ARRIVE AT 11:30 AM - CHECK IN TO RECEIVE LUNCH TICKET,  
MEETING WILL BEGIN AT NOON AND END AT 1:00 PM

**COST:** \$16.00

Money is due in advance no later than Tuesday, February 28, 2017

Make checks payable to: "St. Louis Rotary Club"

*Please write on check name of attendee, the organization that is being  
represented and indicate that check is for "Engineers Day".*

Mail check to: St. Louis Rotary , 405 Washington Avenue, St. Louis, MO 63102

*Please Direct Any Questions To:*

*Dan Conway, President, Conway Contracting, Inc. at 314.795.1957 or  
[danc@conwaycontracting.com](mailto:danc@conwaycontracting.com)*

*NOTE: We can accommodate groups up to 10 at one table. In addition, please forward  
your association and/or company advertisement two weeks in advance so we can display.*

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## ASME Section Contributions

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In past years, the St. Louis Section has covered section activities by receiving an allocation of funds from ASME National. This allocation was based on how active the section was and what types of events were hosted by the section (i.e. offering professional development and holding joint meetings with other engineering groups). Since 2014 year, ASME National has stopped contributing to the local sections and instituted regulations on how sections can spend their money. The section is now using money that was saved from past conferences held in St. Louis and contributions from members.

When completing your ASME renewal, please consider contributing to the St. Louis Section. This will help to sustain the group that has survived since 1909 and is run entirely by volunteers in the St. Louis area. You can contribute by completing the voluntary contribution for sections on the ASME renewal form.

We are also looking into the potential to utilize relevant sponsorships to help alleviate the continuing costs as well.

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## Tom Bever Memorial Undergraduate Scholarship

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The St. Louis section will be accepting nominations for a \$500 undergraduate scholarship for the fall semester. In order to be considered, the student must submit the following by August 1<sup>st</sup>:

- Unofficial transcripts showing the student is an undergraduate pursuing a Bachelor's degree in Mechanical Engineering
- ASME student membership – include ASME membership number in submittal
- Submit a short essay describing outstanding accomplishments including volunteer roles in ASME (member of design team, officer positions held, etc.)

All materials should be entered on the [www.asmestlouis.org](http://www.asmestlouis.org) website via the "Scholarship Application" link found on the main page. Selection will be based primarily on ASME volunteerism. Open to students attending a college in the St. Louis Section including: St. Louis University, Southern Illinois University Edwardsville, Missouri University of Science & Technology, Washington University, and University of Missouri in St. Louis.

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## Student Section Website Offer

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The screenshot shows the homepage of the St. Louis Section of ASME. At the top, there's a navigation bar with links for Home, Newsletters, Activities, Blog, About, and Contact. The main header features the text "St. Louis SECTION" with the ASME logo below it. A banner image shows the St. Louis skyline at night. Below the banner, there's a "Welcome To The ASME, St. Louis Section" message and a "Calendar of Events" sidebar listing dates for Monday, September 5 through Tuesday, September 29. At the bottom, there are several buttons and links: "RSVP for May Social", "Scholarship Application", "Current Newsletter", "News Blog", "Group Discussions", "Calendar", and "Resources".

The St. Louis Section is offering any regional student section their own page on our site complete with Google Calendar, Blogger, and section information in an effort to help the student sections keep organized even when they may lack the resources. If you know of a student member that would be interested, please have them contact us at [asmestlouis@gmail.com](mailto:asmestlouis@gmail.com).

# **Regional Science Olympiad Competition**

## **Seeking Volunteers**

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Science Olympiad is an academic tournament that involves competing in a range of 23 different events with other middle schools from central Illinois. Each team may have at most 15 students. The top winners are promoted to the state tournament, which is always hosted by the University of Illinois.

All Science Olympiad events are designed to be hands on. The tournament encompasses all areas of science in the same competition. biology, chemistry, earth science, and physics are emphasized. Engineering and technology are also combined with several of these disciplines in events. Science Olympiad is unique in its ability to combine these areas and vary the way the students are tested in them.

The range of testing modes includes paper/pencil tests (limited in number) to lab practical events to design and building devices that require the students to calibrate devices to accomplish a goal before competition.

We are seeking volunteers to help run and score the events for our annual Regional Competition, March 11 at Lindenwood University-Belleville. If you are able to help, please contact Patricia Szpila at [airdrop1@aol.com](mailto:airdrop1@aol.com). Thank you

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## **Engineer's Club of St. Louis**

### **Engineering Center STEM Outreach Opportunity**

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Dear Members,

The Engineering Center of St. Louis respectfully requests your support and participation in creating outreach into regional schools encouraging local students to pursue an education in high-demand STEM fields. The STEM Alliance has launched the STEM Alliance Speakers' & Mentors' Bureau with the mission to connect professionals into classrooms to inspire and encourage the next generation to continue taking steps along STEM pathways. It will provide valuable links to mentoring, scholarship opportunities, university connections, and eventually careers. Encouraging local students to follow STEM pathways in education will help to fill the STEM talent pipeline that is critically needed for the region to continue to grow and create prosperity for St. Louis. This is a call for volunteers to participate in the bureau. Please consider completing the attached application and forwarding it to [joy.david@engineeringcenter.org](mailto:joy.david@engineeringcenter.org). Thank you for your consideration and support to this much-needed community outreach program. Please feel free to forward the application to members, colleagues, and other STEM professionals you feel would be a valuable asset to this program.

Sincerely,  
W. Dave Yates,  
PE President

# ASME Auxiliary Scholarship Program

From Arnie Feldman, Chair EED to all EED Members:

You are likely familiar with the scholarship programs that in the past were sponsored and administered by ASME. The ASME Auxiliary currently sponsors a Student Loan Program (SLP). The terms and conditions for the SLP have recently been revised to make these loans more widely available to students in need of financial assistance to complete their degree requirements. Loan repayment terms have been revised to make it easier for students to find employment and to establish their careers or to complete graduate studies before beginning to repay their loans. The guidelines and loan application are attached to this email and also available at [go.asme.org/loans](http://go.asme.org/loans).

The major points of this loan program are:

1. Maximum of loan amount of \$5,000 per student
2. Available to ASME Members or Student Members who are US citizens or permanent residents majoring in Mechanical Engineering or a closely related program
3. Loan interest at 4% on the outstanding loan principal
4. Loan interest does not begin accumulating until the first of the month immediately following graduation, change or termination of student status
5. Loan plus accrued interest is to be paid in thirty-six (36) equal consecutive monthly payments commencing within six (6) months after graduation. There is no penalty for early repayment.
6. Students must be an ASME Member or Student Member in good standing for at least one year and until the loan is paid in full.
7. Student must be enrolled in full-time academic studies in the U.S and making satisfactory progress in his or her degree program
8. Have a minimum GPA of:
  - 2.20 on a 0 to 4.00 scale - (Undergraduate Students)
  - 3.20 on a 0 to 4.00 scale - (Graduate Students)
9. Student must have a demonstrated financial need and have a written letter of recommendation from the Chair of the Department, the Dean of Engineering, or Faculty Advisor of ASME Student Section.
10. A one time graduate education extension may be awarded to qualified students.

Please inform all students in your programs who you feel qualify for these loans to submit an application, or to request additional information.

Ed Seiders  
ASME Auxiliary Student Loan Treasurer  
email: [seiderse@asme.org](mailto:seiderse@asme.org)

## St. Louis Section Events and Links

The St. Louis Section is continuously looking for new events and activities to offer members. This includes tours and presentations. If you have ideas or would be interested in being an event captain please contact any of the officers on the next page.

Check us out online at the following links

- Main Website  
[www.asmestlouis.org](http://www.asmestlouis.org)
- ASME Community Section Page  
[https://community.asme.org/st\\_louis\\_section/default.aspx](https://community.asme.org/st_louis_section/default.aspx)
- LinkedIn Page  
[https://www.linkedin.com/groups?goback=%2Egmp\\_4115637&gid=4115637](https://www.linkedin.com/groups?goback=%2Egmp_4115637&gid=4115637)

## ASME Referral Drive & ASME Special Offer

*From ASME:*

“ As a valued ASME Section Member, we are requesting your assistance to help us spread the word to non-members about two exceptional opportunities we have for them to join ASME:

**1. The ASME Referral Drive:** Current members can simply provide us with the names and email addresses of their non-member peers and colleagues and we do the rest! The prospective member will receive a special discount offer to join ASME including a free gift, and the referring member may also be eligible to earn great prizes when they do. Please encourage your section members to make their referrals today at: <http://go.asme.org/ReferralDrive>

- and -

**2. The ASME Join Today Special Offer:** Members can also share the ASME Join Today Special Offer URL directly with friends and co-workers by: email; placing it on their university or company intranet; posting it to their favorite social networks such as Facebook, Twitter, Google+ and LinkedIn, or however they wish! Joiners will enjoy a special dues discount plus a free gift. Please urge your section members to post this special offer URL in as many appropriate venues as they can: <http://go.asme.org/JoinToday>

We rely heavily on your ongoing support to introduce ASME Membership to as many prospective members as possible, and we thank you in advance for your help in spreading the word about these very special membership opportunities - each of which include a generous **25% dues discount** plus a **free ASME bag** for new members!

”

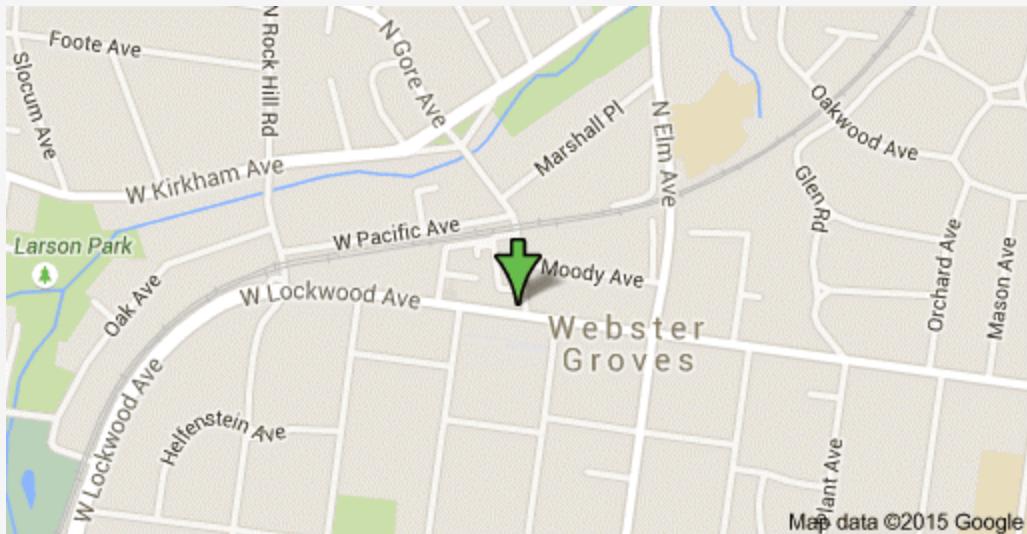


Two Great Ways  
to Help ASME  
Grow Membership!

# Next Board Meeting

Please join us at the next Board Meeting on **Wednesday, February 8th @ 5:30pm**

Location: CJ Muggs Bar & Grill, 101 W. Lockwood, Webster Groves, Missouri 63119  
Restaurant contact: (314) 963-1976 CJ Muggs Webster Groves; <http://www.cjmuggs.com>  
Please contact any of the board members for more details.



## Officers

<b>Chair/Webmaster</b> Brad Tissi HTE Technologies, Inc. <a href="mailto:btissi@gmail.com">btissi@gmail.com</a>	<b>Vice Chair</b> Mesrou Mehmed Weissman's Theatrical Supplies, Inc. <a href="mailto:mesrou_m@yahoo.com">mesrou_m@yahoo.com</a>	<b>Treasurer</b> Paul Hibbeln Medtronic <a href="mailto:hibelnp@gmail.com">hibbelnp@gmail.com</a>
<b>Secretary</b> Louie Woodhams Washington University <a href="mailto:louis.woodhams@gmail.com">louis.woodhams@gmail.com</a>	<b>Past Chair</b> Jerry Brooks Becton, Dickinson and Co. <a href="mailto:jerryb150@gmail.com">jerryb150@gmail.com</a>	<b>Student Liaison</b> Ryan Neil Tetra Tech, Inc. <a href="mailto:ryanneil84@hotmail.com">ryanneil84@hotmail.com</a>
<b>Historian</b> John Saufnauer Retired <a href="mailto:johnsaufnauer3@att.net">johnsaufnauer3@att.net</a>		