

# St. Louis Section News

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

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

November 2016

***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:

### **WashU Materials Science Tour**

December 8th, 2016 @ 5:00pm

1 Brookings Dr.

St. Louis, MO 63130

## Next Board Meeting:

December 15th, 2016 @ 6:00pm

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



# Washington University Materials Science Tour



For our December event, we will take a tour of Professor Katharine Flores's Materials Science Lab and the Institute of Materials Science and Engineering (IMSE), of which Professor Flores is the Director. Highlights of Professor Flores's Lab include a Direct Laser Melting 3D Printer, which is capable of combining powdered metals to create parts with compositions that can vary throughout the geometry of the part.

Professor Katherine Flores' primary research interest is the mechanical behavior of high performance structural materials, with particular emphasis on understanding structure-processing-property relationships in bulk metallic glasses and their composites.

The majority of the Institute of Materials Science & Engineering (IMSE) user facilities are located in the basement of Rudolph Hall (Earth and Planetary Sciences), including a new 13,000 sq ft facility opened in Fall 2013. These facilities are available for use by researchers both inside and outside the university. IMSE Facilities include several levels of clean rooms with equipment for Fabrication and Testing/Characterization of materials. The IMSE has several Electron Microscopes including a Scanning Transmission Electron Microscope (STEM), a Transmission Electron Microscope (TEM), and a Scanning Electron Microscope (SEM).

For more information about IMSE facilities see the following link: <https://imse.wustl.edu/facilities>

## Event Details:

When: December 8th, 2016

5:00pm - 6:30pm Facility Tour

6:30pm - 7:00pm Networking

Where: Washington University - Lopata Hall  
1 Brookings Dr.  
St. Louis, MO 63130

Pizza and soft drinks will be provided.

Cost: \$5 for ASME members and guests

Free for Students

RSVP: Please RSVP by Saturday, December 7th, 2016 by completing the form at [ASMEStLouis.org](http://ASMEStLouis.org) or by email to [louis.woodhams@gmail.com](mailto:louis.woodhams@gmail.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 **2016 - 2017** **Events**

Every Month

**Second Friday  
Professional  
Development Seminars**

**Third Monday  
Engineers' Club  
Fellowship Night**

**YP Happy Hour  
Held regularly  
throughout the year**

**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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# Professional Engineer Refresher Course

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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.

# Rotary Club - Engineer's Day Celebration



**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*

*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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# Engineer's Club of St. Louis - Groundbreaking Ceremony

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Dear Engineers Club Members,

Please join us as we begin construction on Phase 1 of our historic Capital Improvements Program.

Groundbreaking Ceremony  
Wednesday, December 14, 2016  
4359 Lindell Blvd  
St. Louis MO 63108  
10:30 am Ceremony

It has been a long few months working to get the financing loan, construction contract, and get this project off the ground. We're excited to share that Phase 1 is finally moving forward for a cost of \$1,503,429.00. Just a hair over our budget of \$1.5M.

Phase 1 will consist of renovation of the existing auditorium into a conference center with one room seating up to 400 people, which can be partitioned into 3 smaller meeting rooms. ADA restrooms will now be located on the first floor. The failing HVAC will be replaced with improved temperature control throughout the building.

As construction is finally off the ground, our Board is excited to refocus on improving the organization and providing additional value to our membership. As we move into our sesquicentennial anniversary, we hope you will join us in our mission to ADVANCE ENGINEERING for the next 150 years. We will continue working to provide professional development, fellowship and networking, and outreach to the next generation of young engineers.

Your donation today will help us to continue improvements to get Phase 2 off the ground. We only need \$500,000 to get our next phase of construction off the ground. SAME has generously agreed to match any AFFILIATED SOCIETY DONATION dollar for dollar up to \$100,000...Please encourage any donations through Affiliated Societies which you may be a member. Let's try to raise the money continuing improvement to the home of our engineering industry.

<http://www.engineeringcenter.org/donate>

Truly yours,  
Nicole A. Young, P.E.  
President 2016-2017



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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 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).

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## **Brad Gilmer**

### **2015-16 Tom Bever Memorial Undergraduate Scholarship Recipient**

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ASME St. Louis would like to congratulate Brad Gilmer as the 2015-16 recipient of the Tom Bever Memorial Undergraduate Scholarship!



We had a number of great applicants this year and it was exciting to see the next generation of MEs being so active in their fields already. While all that applied were more than qualified, it was Brad's heavy experience in his local ASME Student Section that gave him the slight edge.

Some of his experiences include:

- Held Chair, Vice-Chair, and Fundraising Chair with the Missouri S&T ASME Student Section
- Chancellor's Leadership Academy
- Attended ASME's IMECE for the Student Leadership Conference
- Helped grow the chapter size and 3D Printing Design Competition threefold

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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



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# ASME Auxiliary Scholarship Program

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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)

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## St. Louis Section Events and Links

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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)

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## ASME Referral Drive & ASME Special Offer

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*From ASME:*

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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!

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Two Great Ways  
to **Help ASME**  
Grow Membership!

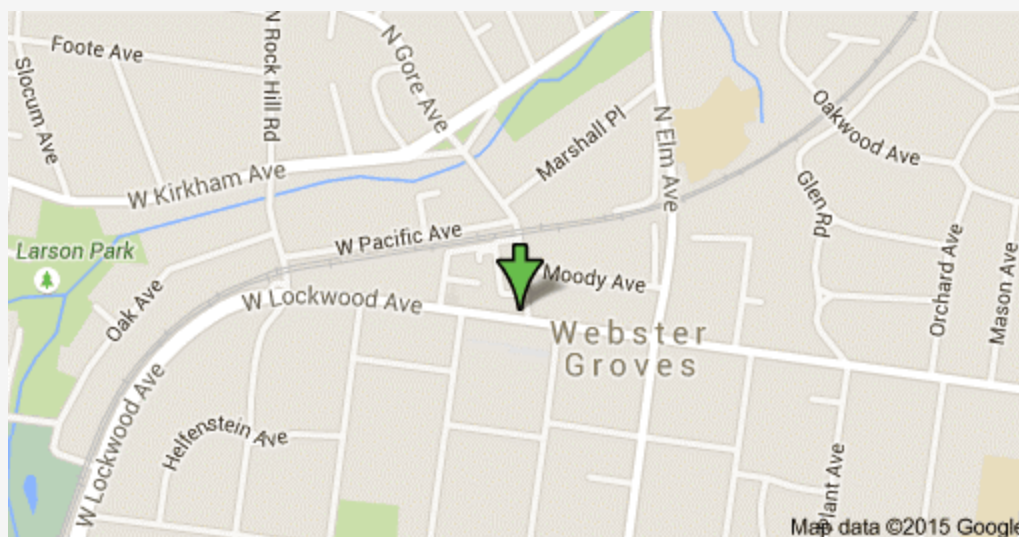
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## Next Board Meeting

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Please join us at the next Board Meeting on **Thursday, December 15th at 6:00pm**

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.



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## Officers

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<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:hibbelnp@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>	