



Minnesota Section News

September 2011

Message from the Chair

This is the start of another exciting year! I would like to take this opportunity to thank last year's Chair, Larry Kirchner, previous Chairs, and the Executive Committee members for setting new challenging targets to serve the members. While the Minnesota Section members were busy enjoying the summer, the Executive Committee was busy brainstorming creative ways to improve the program offerings for the 2011-2012 year and improving communication with our membership.

Last year, we had three plant tours including Target Field, Toro, and the University of Minnesota's Medical Devices Lab. These informal meetings were to expose our members to various industries, exchange information and share knowledge, and encourage networking while being fun and social at the same time.

We also had a very successful year with our student involvement. The student section at University of Minnesota organized a panel discussion for members of the professional section to share their experiences with students. ASME-MN also participated in Techfest (www.theworks.org) to work with children 3 years and up on hands-on engineering activities. We also provided funding to our student chapters to attend Student Professional Development Conference (SPDC) organized by ASME National. Outstanding students were also awarded. These students are our future and we want to support and encourage them in any way we can.

When it comes to engineers, serious approaches toward professional grooming cannot be ignored. To respond to this need the Executive Committee arranged Technical and Dinner meetings (2 - 4 hours) covering topics from renewable energy to materials and their mechanics. The calendar of program offerings for 2011-2012 is included in the newsletter and can also be seen on our website www.asme-mn.org. I strongly encourage all the members to regularly visit our website for updates on upcoming events, registration, activities of other professional organizations, and volunteer opportunities available on different forums to help build communities nationally and internationally.

As part of our communication initiative we are also working on improving our website to make it more user friendly, communicative, and provide more exposure to our members to the ongoing engineering activities. We also communicate through e-mails using the e-mail addresses in the National ASME database. Please visit ASME (<http://my.asme.org>) to make sure your profile is updated. Also, if you are not getting e-mails, please follow the steps listed in the first item of our FAQ's section at www.asme-mn.org.

In this changing world, our professional and social needs also keep changing and engineers should be willing to respond to the dynamics of change. This requires revisiting the needs of our members and get feedback on program offerings. We plan to send a survey in the middle of this year to get your suggestions. This is a key element in aligning our efforts with the expectations of our membership hence I encourage your active participation and timely completion of survey to help us understand your needs. The Executive Committee consists of highly dedicated volunteers working hard for their engineering community and they draw their satisfaction from your increased participation in all the events. This year we also plan to have a one day seminar and the success of the event will depend on members as their active participation makes the event a success.

Finally, I would like to request all the members and students transitioning into the professional mainstream to make sure they are maintaining their membership status. Your membership helps sustain the ASME-Minnesota section and the continuation of excellent program offerings.

I am thankful to all the members for helping us meeting the targets and excited to see you in the upcoming events. Again, please keep visiting our website and provide your valuable feedback.

Babar Khan
Chair, ASME - Minnesota Section

Our Next Event



What: A Tour of Stratasys Inc.

When: Wednesday, September 21, 2011
Sandwiches start at 5:30 pm
Program starts at 6:00 pm

Where: Stratasys Inc.
7665 Commerce Way
Eden Prairie, MN 55344

How: Attendance for this tour is limited. To register, go to the Section's website at www.asme-mn.org. You will find the information you need to register online, by e-mail, or by telephone.



Stratasys, Inc., produces additive manufacturing machines for prototyping and manufacturing plastic parts. The company also operates a service center for part prototyping and production.

Stratasys invented its patented FDM (Fused Deposition Modeling) technology in 1988 and has led the development of 3D printing technology ever since. The process creates functional prototypes and end-use parts directly from any 3D CAD program, using high-performance industrial thermoplastics.

Stratasys holds more than 285 granted or pending additive manufacturing patents globally. According to Wohlers Report 2010, Stratasys supplied more additive manufacturing systems than any other competitor in 2009, making it the unit market leader for the eighth consecutive year. Stratasys technology is in aerospace, defense, automotive, medical, business & industrial equipment, education, architecture, and consumer-products markets.

Learn more about additive manufacturing, FDM technology, and how it's changing the future of product development and manufacturing. At this interactive event you'll see real world applications, hear stories of how it's being used and be able to hold and test parts. You'll see rows of machines in action while learning:

- How additive manufacturing and FDM technology work
- How to use additive manufacturing for:
 - Concept models
 - Functional prototyping
 - Manufacturing tools
 - End-use parts
- How additive manufacturing can save product development time
- How using FDM can cut production costs
- How you can design for manufacturability as opposed to having design constraints

ASME-MN 2011-2012 Officers and Directors

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Director	Larry Kirchner	Director	Rich Heinecke
Director	George Lucas	Director	Robert Bies
Director	Tom Johnson	Director	Mark Bliss
Director	Bill George	Director	Martha Engel

K-12 Update:

Our section has several ways you can get involved with K-12 outreach programs. We support The Works Children's Museum with volunteers for TechFest and their Minnesota State Fair booth. We also encourage our members to support the High Tech Kids by volunteering as judges for the Lego League competition.

TechFest is held during E-Week in February and it gives members the opportunity to volunteer and share their experience with future engineers and scientists. This event is held at The Works Children's Museum which has recently purchased a building in Bloomington and will be moving to their new site this fall. The 2012 TechFest will be held in their new facility in February. More information will follow as they open the new and expanded facility and look for volunteers.

ASME/MFESTS Volunteers also help out at The Works booth at the State Fair. This is the second year that the Fair provided space for several children's STEM booths to encourage children to pursue Engineering as a career. For further details and volunteer opportunities please contact Rick Heinecke at rickheinecke@aol.com

A new area for volunteering is the High Tech Kids program. They are getting ramped up for another year of Lego League and are looking for volunteers to serve as Judges for the Lego League competition. If you are interested, contact Norm Tiedemann at normt@hightechkids.org, or by phone at 651-731-3899 (home), or 651-335-6962 (cell).



Tentative ASME-MN 2011-2012 Event Calendar

September 21, 2011 **Rapid Prototyping: Tour of Stratasys Inc**
See information and registration info inside!

October 12, 2011	Nanotechnology for Mechanical Engineers
November 09, 2011	Root Cause Analysis
December 12, 2011	Tour of the Guthrie Theater
January 11, 2012	Wind Turbines
February 08, 2012	Laser Inspection and Quality Control
March 14, 2012	Product Liability and Professional Liability
April 11, 2012	Bolting Methods and Failure Analysis
May 09, 2012	Intellectual Property for Engineers

Remember to check our website (www.asme-mn.org) for the latest updates on our events. We are always looking for speakers and companies to tour for our events. Email us asme_minnesota@yahoo.com with your suggestions.



LOOK INSIDE:

- Section Programs & Tours
- Chairman's Message
- Section Updates

TO: