

	<h1 style="text-align: center;">THE AMERICAN SOCIETY OF</h1>	<p>The Section is located at: Oklahoma Engineering Center, 220 Northeast 28th Street, Oklahoma City, OK 73105</p>
<h2 style="text-align: center;">Central Oklahoma Section Newsletter</h2> <p style="text-align: center;">Volume 16, Number 9, May 14, 2015</p>		<p>The Central Oklahoma Section Newsletter is nominally published nine times per year to convey monthly meeting dates, meeting topics, section activities, and/or other ASME information to its membership.</p>

******* PLANT TOUR – NOTE SPECIAL TIME & PPE REQUIREMENT *******

PROGRAM: Governair Plant Tour, Presentation, and High-Performing HVAC Laboratory

DATE: Thursday, May 28, 2015 **LOCATION:** GovernAir and Nortek Air Solution, 4841 N. Sewell Ave., OKC

Governair has been both a pioneer in the HVAC market since 1937. Their engineers became originators of the first package concept system and left a defining mark on the industry in 1942 by patenting the first self-contained, water-cooled, air conditioning unit ever built for commercial use.



One way Governair tests, verifies, and improves the performance of its equipment is by emphasizing acoustical and aerodynamic performance, Sound pressure and intensity testing began in the 1980's and has continued for HVAC system acoustical performance and verification ever since.

In 1994 a sizable full-service, on-site acoustical and aerodynamic testing and research laboratory was developed. It is one of the largest dual reverberant chamber testing sites with airflow measurement capabilities in the world. It can accommodate production and R&D test scopes ranging from 500 to over 65,000 CFM. The lab provides a wide range of unique services to our customers and venders including acoustical modeling, witnessed production testing, and robust performance and diagnostic analysis along with ongoing R&D design test work to enhance and improve product lines.

STEEL-TOED SHOES ARE REQUIRED. WITH RESERVATION PLEASE INDICATE IF YOU HAVE YOUR OWN AND CAN BRING STEEL TOED SHOES OR BOOTS.

Please join us on May 28 for this tour to wrap up our 2014-2015 ASME-COS program year!

Attendees will receive 2-PDH Continuing Education credits!

Time: 2:00PM Meet & Register at GovernAir. 2:15 – 4:30PM: Program and Plant Tour

Cost: **NO MEAL OR COST.** Please place your reservation with Albert Janco (Ph: 405-848-1991 (leave message); e-mail: JANCOA@asme.org) **by 6:00PM on Tuesday, May 26.** PLEASE furnish the name of each person attending and their affiliation (ASME, etc). If a student, please indicate school/university. If a P.E. please indicate if a PDH certificate is desired.

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ADDITIONAL MAY MEETING INFORMATION

Governair® -- Custom HVAC solutions for demanding applications

For 75 years the Governair brand has been an industry leader in highly-customizable direct expansion air conditioning equipment and industrial air handlers. Governair's philosophy of delivering elite custom quality without the preventative costs generally associated with custom services results in industry leading value for markets of every scale.

Governair's product line is only limited by the designer's imagination. If you can imagine it, they can design and build it. From the simplest units to the most complex systems, our units are specifically designed to meet the exact needs of each project. Their team of highly skilled engineers and craftsmen has built a reputation for their ability to repeatedly provide solutions for the industry's most demanding applications.



ASME STUDENT MEMBER RECOGNITION

ASME Central Oklahoma Section student member awards recognizing individual students for their academic achievement and outstanding service to their ASME Student Sections were presented to the following students at our April meeting:

- The Tom J. Love Award @ The University of Oklahoma
No Award for 2015
- The Jerald D. Parker Award @ Oklahoma Christian University
Drew Bellcock
- The James H. Boggs Award @ Oklahoma State University
Jason Proffitt
- Mechanical Engineering Technology Award @ Oklahoma State University
Neil C. Torbett

Congratulations to these ASME student members!



XXXV Oklahoma AIAA/ASME Symposium Recap

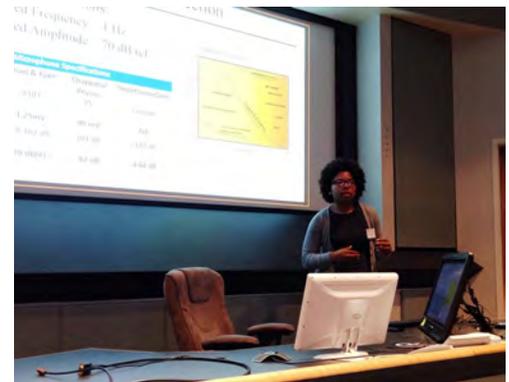
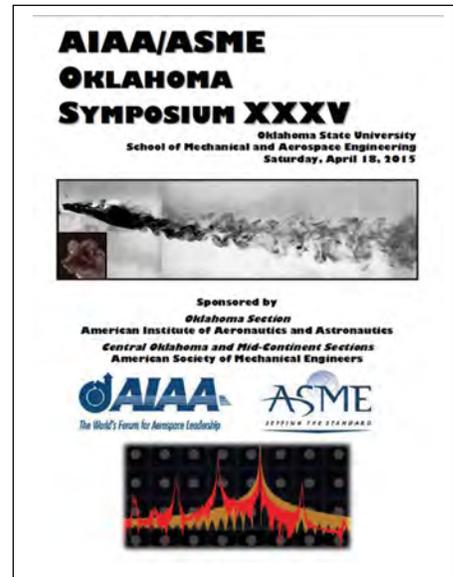
The 35th annual Oklahoma AIAA/ASME Symposium was hosted by the OSU School of Mechanical and Aerospace Engineering on Saturday, April 18, 2015. The Symposium is sponsored the Oklahoma Section of the American Institute of Aeronautics and Astronautics (AIAA) and the Central Oklahoma and Mid-Continent Sections of the American Society of Mechanical Engineers (ASME).

The Symposium was successful in its goal of fostering communication among the engineers of Oklahoma’s universities and industries as there were 103 attendees, 61 technical presentations, and a luncheon speaker. The proceedings include the abstracts submitted for all the presentations with contact information for the authors. Please use <http://mae.okstate.edu/content/aiaasme-symposium-1> and follow the Proceedings link.

Session Chairs included Christian Bach, **Rick Beier**, **Tom Betzen**, Girish Chowdhary, Brian Elbing, Ashlee N. Ford, Xiaoliang Jin, Kaan Kalkan, **Feng Lai**, James Manimala, Jelena Milisavljevic, Ram Mohan, Arvind Santhanakrishnan, and **Chulho Yang**.

The luncheon speaker was Dr. Charles E. Baukal, Jr., Director of the John Zink Institute and John Zink-Hamworthy Combustion of Tulsa, Oklahoma.

Many thanks to Dr. Frank Chambers for his outstanding work in organizing and hosting this event!



Symposium Photos: (above left) Prof. Manimala chairing the *Structural Dynamics & Acoustics* session. (above center) Nick Thorpe presenting “Characterization of a Pulsating Drill Bit Blaster”, (above right) Arnesha Threat presenting “Development of a Compact Atmospheric Infrasonic Measurement System for Early Detection of Tornadoes”, (below left) Chulho Yang presenting “An Optimization-Based Structural Health Monitoring Technique Using Experimental Sensitivity Functions”

NEWS FROM ASME

Dear Volunteers:

We are pleased to announce that the new **GPS Requisition Tool** is now live! **Please note some important points prior to accessing the tool:**

1. The tool is accessible by all volunteers recorded as Group Leadership Team (GLT) members (formerly, Executive Committees) of the following groups:
 - (a) Divisions, (b) Sections, Sub-Sections and Technical Chapters, (c) Affinity Groups, (d) Research Committees, (e) International Gas Turbine Institute (IGTI) Board Members
2. Any volunteer member on the Group Leadership Team from one of the above groups can submit a request on behalf of a group.
3. For groups that have sub-committees, since requests are collected by groups as a whole, any request from a sub-committee should be funneled up to the GLT for submittal. Example: A Division Technical Committee should funnel requests to the Division GLT for submittal.
4. Your ASME.org Single Sign-On (SSO) id will be used to log in to the tool. This is the same login (e-mail address and password) you use for ASME.org, the Online Roster, the Conference Toolbox, and other ASME tools, and should align to your member record.
5. Problems with your login? Contact customercare@asme.org.

As a reminder, the new Requisition Tool has been developed to combine several tools into one! As such, the following tools and e-mail box are now sunset:

1. The interim Zoomerang Activity Request Form
2. VERT (Volunteer E-Request Tool)
3. Unit After Activity Report Tool
4. The email box, UnitSupport@asme.org.

Please visit the GPS group page for additional information about the tool launch, including access to online tutorials that will help you learn how to use the new platform.

Ready to access the tool? Visit <https://manager.asme.org/ServiceNow/Account/Login> to login!

Questions or concerns? Use the new tool to ask us a question, or contact gps@asme.org.

Thank you for your patience as we transition to this new platform. We hope that the new GPS Requisition Tool will serve as your one-stop resource to help your group conduct ASME business!

ASME Group Pathways & Support Team <http://go.asme.org/gps>

Innovations & Trends

3D printing to become prevalent in oil, gas industry, experts say

(from [Alaska Dispatch News \(Anchorage\)/Houston Chronicle](#) via ASMESmartBrief, May 8, 2015)

The oil and natural gas industry will eventually see itself relying on additive manufacturing or 3D printing to manufacture oilfield equipment, wells, subsea pumps and other facilities, experts said at the Offshore Technology Conference. The industry uses the technology in "rapid prototyping," which has a shorter-than-the-usual period for making initial designs of components. Debarti Sen, business director for mining, oil and natural gas solutions at 3M, said the technology "allows conversion of complex designs into a part that can be made in batch sizes that don't require production-level scaling."

Area Job Opportunities

Opportunity for a **Mechanical Engineer** with a well-established Oklahoma City company. Responsibilities are designing HVAC and plumbing systems in government and private buildings. This will include load calculations, energy analysis, ductwork design, hydronic system design, controls system design and plumbing design.

The ideal candidate will have the following:

- BS in Mechanical Engineering or related field with 3+ years post-education experience
- EI required and PE strongly desired
- AutoCAD / Revit as well as industry-related design programs.
- Strong communication and interpersonal abilities

Salary range will vary as the client seeks either an EI or PE. Employer is open to candidates who have worked in a manufacturing setting (with an HVAC company) or who has worked in an A&E firm.

Opportunity for a **Manufacturing Engineer** to work at an established Oklahoma City manufacturing company. Sought is a motivated, hands-on person who is proactive and self-sufficient since their team receives little direct supervision. This person will work very closely with the maintenance and production lines.

Special skills include welding and operating manual mills and lathes (when necessary). This is not required but the hands on attitude and willingness to learn these types of skills is preferred. Solid Modeling experience is also needed (SolidWorks, ProE, or Inventor).

Large projects are assigned, but many small daily activities are “picked up” from involvement with maintenance and production areas. Some larger projects could include improving flow, tooling replacements for fabrication machines, hard die modifications, and replacement tooling for in-house fabricated machines to name a few.

Depending on experience and qualifications, this person might be assigned to design of machine guarding, small jig and fixture design, working with team on line layouts, specifying new equipment and completing required paperwork for justification and purchase etc.

This is a direct hire position which includes benefits, time off, etc.

Opportunity for a **Manufacturing Manager** in the Oklahoma City metro area. Employer seeks candidates who are strong in the following areas:

- | | |
|--|---|
| • Robust Lean Manufacturing background | ▪ Ability to inspire and influence team |
| • Strong cross-functional leadership | ▪ Continuous Improvement |
| • SPC | ▪ DMAIC |
| • Root Cause Analysis | ▪ Process Engineering |
| • FMEA | ▪ Six Sigma |
| • Leading Kaizen Events | ▪ VSM |

In addition to the strong manufacturing and leadership experience, the key to this position is being able to get everyone on board and fostering collaboration within the plant. This person must work effectively and lead large teams to collectively develop ideas for process changes to improve employee contributions and plant efficiency.

To learn more about these opportunities or to apply on-line, contact Ms. Kelly Duke at www.kellydukestaffing.com.



Chair's Corner

To those who were able to join us at the April 23rd Honors & Awards meeting – I trust it was as enjoyable for you as it was for me. What was especially interesting was the Superintendents of the metro-OKC talk about the new pre-engineering initiatives now available to high school aged students. ASME is a strong supporter of STEM (Science/Technology/Engineering/& Mathematics) pre-engineering programs inasmuch these youngsters hold the keys to our future as new engineers.

At this time I would also like to personally thank Oklahoma State University for hosting the XXXV annual AIAA-ASME symposium. Seems they outdid themselves with the quality of accommodations and quality of speakers available.

We will have a plant tour at our May 28th general meeting. Please note the safety (steel-toed) shoe requirement and the new meeting times. Due to the extended visit duration, this meeting will be good for 2 Professional Development Hours [PDHs]. All ASME-Central Oklahoma Section members, SWE Section member, AIAA Section members, students, and guests are welcome to join us.

Tom Betzen, Chairperson, ASME Central Oklahoma Section

Future ASME-Central Oklahoma Section Events

Date	Location	Program Topic and Speaker
Thursday May 28, 2015	Governair Facility 4841 N. Sewell Ave. Okla. City, OK	Plant Tour and Presentation: Governair HVAC High-Tech Performance Laboratory ***** PLEASE NOTE PAGE 1 MEETING TIME AND PPE REQUIREMENT FOR STEEL-TOED SHOES/BOOTS *****

Please visit our Section website:

https://community.asme.org/central_oklahoma_section/default.aspx

IT'S BEEN REVAMPED. Check event updates and other useful information!