

# Central Oklahoma Section Newsletter

Volume 8, Number 2

September



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## September ASME COS Meeting Announcement

**Speaker:** Jeff Wyrick, Chief of Sub-Systems Rocketplane Limited, Inc.

**Topic:** "Going to Space-Mechanically Speaking- A presentation and Tour"

**Place:** Rocketplane Guthrie Facility, Spirit Wing Aviation Hanger, Guthrie Municipal Airport

510 Airport Road, Guthrie, OK 73044

**Time:** Thursday, September 28

6:00- 6:45pm Registration and Pizza Dinner

6:30-6:45pm AIAA / ASME Opening remarks 6:45- 8:00pm Presentation and Tour

**Cost:** \$5 for all participants

**PLEASE PLACE RESERVATIONS BY 12:00PM TUESDAY September 26**

**Students** make reservations at your respective university's Mechanical Engineering Office

**Members** make reservations with Frank Chambers; <mailto:fchamb@okstate.edu>;

**PH (405) 744-5901** (with each reservation, please include the name of each guest &/or student and specify if not a U.S.citizen.)

**Presentation:** Commercial space is a rapidly evolving market. There are numerous business avenues and commercial attractions, but hardware is critical for success. Developing, selecting, integrating, and evaluating components of the space vehicle require many facets of engineering. The presentation will focus on the engineering sciences necessary to select and design propulsion systems, human accommodations, structural elements, electrical power, and attitude controls. In addition to the technical selection process, several factors contribute to a commercially successful design. The design must also consider cost, manufacturing, risk, and schedule before hardware is procured. The presentation will be followed by a tour of the facility in which the Learjet fuselage is being modified for use in the Rocketplane vehicle.

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## Additional September Meeting Information

### Derrick Sey Biography:

BSAE 1990 Embry Riddle Aeronautical University. Prior to joining Rocketplane, experience included heavy modification and certification of aircraft and the associated structural analysis, test, and design. Currently responsible for structural analysis and defining the requirements for sub-orbital vehicles. A FAA Structures DER ( Designated Engineering Representative) authorized to approve the design data for Part 23 and 25 aircraft. Member of National Space Society and AIAA.

### Tour Conditions:

Children are welcome, but a minimum age of 10 is suggested. The tour will include a fabrication facility. Closed-toe shoes and pants are highly recommended. Non-US citizens are welcome, but ITAR regulations make it necessary that the tour organizers know ahead of time that non-citizens will be attending. **Please indicate with your reservation if you are not a US citizen.**

**Directions to the Guthrie Municipal Airport / Spirit Wing Hangar from OKC:** Drive I-35 North to US-77 North / Guthrie (LEFT EXIT)Continue on US-77 North, approx. 3 miles. Turn Right / East on Airport Road – you'll see the green Airport indicator sign, and ALSO a CESSNA sign on the right side of the road. There is an OSB bank at the same intersection. At the road end, park in the left area or gravel make-shift lot on the right.

The Rocketplane hanger is on the left, directly behind the parking area. Walk around the LH or RH side of the building to entry doors, to the tarmac-side of the hangar. Knock on door if it's not open. Office phone is 260-3433.

## CALL for SPONSORS

### 2<sup>nd</sup> Annual ASME COS Golf Tournament

We have begun recruiting sponsors for the 2nd annual ASME COS golf tournament to be held next Spring. If you or someone you know would like to become a sponsor, please contact us!

**When** – TBD  
**Where** – TBD  
**Entry Fee** – TBD

**Included in Fee** – Greens fee, cart fee, range balls & practice facilities, lunch; 10% Pro Shop Discounts, Gratuity

**Prizes** – To be determined

**Participants** – Central Oklahoma Section Members, Member Spouses, Student Members, Guests, & other Engineering Societies can challenge ASME teams.

#### Sponsorship Levels

**Bronze Sponsorship** – \$250 – Company Logo on a Tee Box;

**Silver Sponsorship** – \$500 – Team entry and a Company Logo on a Tee Box, plus advertising for 2 issues of The Central Oklahoma Section Newsletter;

**Gold Sponsorship** – \$1000 – Team entry and Company Logo on 5 Tee Boxes, plus advertising for 5 issues of The Central Oklahoma Section Newsletter;

**Platinum Sponsorship** – \$1500 – Team entry and Company Logo on 9 Flags, plus advertising for all 8 issues of The Central Oklahoma Section Newsletter.

Recruit a team of 4 and/or have your company sponsor a foursome, at one of the mentioned levels. Be sure to mention that sponsorships will contribute significantly towards the ASME COS Scholarship Fund for mechanical engineering students.

**Contact Nathan Weber at <mailto:webern2@asme.org> or call at 405-225-4061 for more information.**

## Volunteers Needed

The first Thursday of the month after the executive committee meeting there is a new committee formed. It is for fundraising. This includes the Golf tournament and other ways to raise funds for both scholarships and for section needs. If you are interested, please contact Nathan Weber or Ed Reynolds to join. The meetings are held at Boulevard Cafeteria in downtown Oklahoma City.

## Chair's Corner

Dear ASME-Central Oklahoma Section Members:

The start of the 2006-2007 program year was a great success with a presentation entitled **"The Power of Insulation."** This program also marked the first 2.0 PDH program for the year. Ron King of the National Insulation Association pulled from his vast 40 years of experience to produce an educational and enlightening presentation. It was very surprising to hear of the costly decisions that businesses make by overlooking damaged insulation or ignoring insulation all together. We all know that energy resources will only continue to rise in the future, so **why not invest into insulation that will give you a quick ROI?**

Mr. King also handed out CDs of the **3E Plus® Insulation Thickness Computer Program.** The program is an industrial energy management tool developed by the North American Insulation Manufacturers Association (NAIMA) to simplify the task of determining how much insulation is necessary to use less energy, reduce plant emissions and improve system process efficiency. It can be downloaded free from: [www.pipeinsulation.org](http://www.pipeinsulation.org)

The September program will include our fall plant tour. You won't want to miss this special event! We will be touring the **Rocketplane** facility in Guthrie, OK. This will be a well attended event from ASME COS members, AIAA members and guests. The first two pages of this newsletter contain more details concerning our **September 28<sup>th</sup>** program. **Please plan to attend and bring a co-worker or a friend!**

Nathan A. Weber -- Chair

### **A Two-day Career Enhancement Program For Early-Career Engineers**

Nov. 5–6, 2006 Chicago Hilton, Chicago, Ill.

#### **Early Career Forum**

Join your engineering peers at the 2006 Early Career Forum, taking place in conjunction with the ASME International Mechanical Engineering Congress & Exposition. The Forum will give you first hand advice and information on issues relevant to your career. Senior-level engineering students will also benefit from this important event, featuring top industry pros presenting key trends, opportunities, and expectations in the field.

#### **Early Career Development Track**

Participate in the one-day only Early Career Forum program (advance fee: \$25 or onsite fee: \$30), or get even more valuable insights when you attend the first day along with the second day of technical sessions (advance fee: \$150/\$200 or onsite fee: \$175/\$225 – member/nonmember rates).

**Get details at:** [http://www.asme.org/Communities/EarlyCareer/Forum/Upcoming\\_Events.cfm](http://www.asme.org/Communities/EarlyCareer/Forum/Upcoming_Events.cfm)

### ASME CENTRAL OKLAHOMA SECTION MEMBERSHIP ROSTER UP-DATES

Due to funding cuts imposed by ASME, the Executive committee of the ASME Central Oklahoma Section has discontinued the mailing of our monthly newsletters in order to reduce operating expenses. The ASME COS monthly newsletter is currently posted each month on our Section website at:

<http://sections.asme.org/centralOK/>

In order for each of our ASME COS members to receive a copy of our monthly newsletter with our Section meeting notices, it is necessary that each member have up-dated information on the ASME Central Oklahoma Section membership roster.

[http://members.asme.org/myasme/members/  
welcome.cfm](http://members.asme.org/myasme/members/welcome.cfm)

Click on "Update Address/Contact Information" in the right hand column. You will need your ASME member number to access this website. Keeping accurate & up-dated contact information allows us to keep you better informed on our ASME COS activities. We hope this information is helpful for each of you in keeping your information up-dated on our ASME COS membership roster.

If you still want to get a hard copy of the newsletter, please contact either Albert Janco, Tom Betzen, or any other member of the board to have your name put on the hard copy list.

### Call for Submissions: Mechanical Advantage

Do you have something to share with ASME's Student Members? Submit your article or ideas to *Mechanical Advantage*, ASME's online student newsletter. *Mechanical Advantage* offers engineering students useful articles, program information and upcoming events and deadlines. Please send all submissions to <mailto:mechadv@asme.org>.

Student submissions are highly encouraged!

### PUBLIC MEETINGS ON ELEVATOR SAFETY LAW

The Elevator Safety Law (Senate Bill No 756) goes into effect in Oklahoma on November 1, 2006.

Marion Holloway of the Oklahoma Department of Labor is holding a series of meetings throughout the state of Oklahoma to inform elevator owners, operators, contractors, mechanics and other interested persons about the requirements of the newly established elevator safety program.

For details and exact locations of these meetings contact Marion Holloway at 405.528-1500 ext. 242 or by email at [mhollowa@oklaosf.state.ok.us](mailto:mhollowa@oklaosf.state.ok.us)

More details may be found on the Oklahoma Department of Labor website at [www.okdolstate.okus](http://www.okdolstate.okus)

CITY	DATE	TIME
Guymon	9/18/06	1-3pm
Tulsa	9/19/06	1-3pm
Enid	9/20/06	2-4pm
McAlester	9/25/06	1-3pm
Woodward	9/26/06	1-3pm



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## Student Activity Calendar

It is back to school for our area student engineers. I would like to reserve this space and other areas in this newsletter for our student members to inform the Professional section of upcoming events and to use for the students to update the other schools of activities that are being held. If you are a student section board member with information for the newsletter please contact me at [ajbrugg@yahoo.com](mailto:ajbrugg@yahoo.com). Thanks in advance for allowing us to get out the news from the students.

### DRAWING DATE: OCTOBER 1, 2006

#### Three Chances to Win!

[Renew your ASME membership](#) by August 1 and get three entries, September 1 and get two entries, or October 1 and get one entry.

**Rules:** (1) All paid renewals must be received on or before October 1, 2006. (2) Price as indicated or gift certificate for equal value to a major electronics store in your area. (3) Winner will be notified by phone and posted online. (4) Online payments receive three entries. (5) Renewals prior to August 1 receive three entries, prior to September 1, receive two entries, and prior to October 1 receive one entry.

#### Online Renewal Bonus

[Renew online](#) by October 1 and receive three entries.

**Reminder that it is that time again to renew your membership into ASME. Young engineers get a reduced rate as they progress:**

<b>Fellow, Member, Affiliate:</b>	<b>\$126</b>
<b>Member within 1 yr of Grad.</b>	<b>\$50</b>
<b>Member within 2 yrs of Grad</b>	<b>\$69</b>
<b>Member within 3 yrs of Grad</b>	<b>\$88</b>

ASME's **e-mentoring program** is wonderful opportunity for Early Career members to receive guidance from an experienced engineer practicing in the field. Mentors are in the unique position of helping early career get the right training, find the right niche in mechanical engineering and allowing for a smoother transition into the working world.

Visit <http://htmlmail.asme.org/ementoring/index0906.html>

### ASME Deploys Vivisimo Velocity Search Engine

ASME has launched a new search engine on ASME.org with Vivisimo Velocity as its enterprise search platform. With Velocity, ASME is leveraging existing assets to search and combine the company's internal content management system, products catalog, and other Web content while presenting all results organized into easy-to-navigate folders. Now, thousands of ASME.org users will have access to multiple content sources searchable from a single, user-friendly interface.

To try out ASME's new search engine, visit <http://www.asme.org>

### ASME E-Library Expands to 75 Titles – Free to members!

In early Sept. 2006, ASME members gain access to 75 interactive, user-friendly references available on the newly expanded ASME e-Library powered by Knovel. To take advantage, members simply access ASME.org and log onto the members-only page. Members pay no charges for access.

Selecting from a large, diverse collection that includes *Mark's Standard Handbook for Mechanical Engineers*, *Handbook of Materials Selection*, *Mechanical Engineer's Reference Book*, *Structural and Stress Analysis*, *Pipeline Rules of Thumb*, *Mechanics of Materials*, and the *Manufacturing Engineer's Reference Book*, members enjoy additional benefits unavailable from printed references. Using embedded analysis software, they quickly locate data, analyze it, and export the results. For a complete listing of available titles, visit the e-library pages in Members only.

For the initial session on the expanded ASME e-Library, each individual can log onto the member-only page and register. For future sessions, the individual can simply log onto the members-only page and click on an icon, which opens the collection for use.

## Future ASME-Central Oklahoma Section and Other Events

DATE	LOCATION	DESCRIPTION
September 28th	Rocketplane - Guthrie Facility Spirit Wing Aviation hanger	ROCKETPLANE (With AIAA)
October 26th	Engineering Center	Early Surveying in Oklahoma
November 5th - 10th	Hilton, Chicago	ASME International Mechanical Engineering Congress and Exposition
November 30th	University of Oklahoma	Nanotechnology (1.0 PDH)

FOR UPDATES ON THESE AND OTHER EVENTS, VISIT OUR SECTION WEB SITE AT

<http://sections.asme.org/CentralOK>