



**The American Society of
Mechanical Engineers**

Central Oklahoma Section Newsletter

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The Section is located at: Oklahoma
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Street, Oklahoma City, OK 73105

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.

******* January Joint Meeting with Oklahoma AIAA Section *******

Colonel Richard Graham, AIAA Distinguished Lecturer

“SR-71 Blackbird-An Engineering Marvel”

Thursday, January 22

Okl. Engineering Center, 201 NE 27th Street, OKC

The world's fastest and highest flying aircraft was conceived as early as 1958 by the renowned aircraft engineer, Kelly Johnson. The gigantic leap in technology he and his engineers had to overcome, at the Lockheed Skunk Works, was phenomenal. Built in total secrecy, the first Blackbird flew on April 26, 1962. The Blackbird's only purpose was to gather highly classified intelligence on hostile countries around the world. Flying at Mach 3+ speeds and cruising at over 85,000 feet, the SR-71 could survey over 100,000 square miles every hour, gathering millions of bits of intelligence. When cruising at over 2,100-mph, with skin friction temperatures reaching 600°F, the SR-71 performed at its very best.

From 1967 to 1990, the SR-71 served seven U.S. Presidents, the Central Intelligence Agency, the National Security Agency, the Defense Intelligence Agency, the Pentagon and other government agencies. It provided them with the necessary intelligence to make crucial political and military decisions during the Cold War era.

Please join us on January 22 for this informative and enjoyable program!

Schedule and Contact Information

Time: 6:00PM: Registration and Social. 6:30PM: Catered Dinner.
7:15PM: Introductions & Section Business. 7:30PM: Presentation by Richard Graham.

Cost: \$10 each for all Senior Members & Guests, \$5 each for all Student ASME Members.

PLEASE PLACE RESERVATIONS BY 12:00PM (noon) TUESDAY, January 20

Students please make reservations at your respective university's Mechanical Engineering office.

Members make reservations with **DOUG BROWN** ; **brownd919@asme.org** ; Ph: (580) 531-5871

(with each reservation, please include the name of each guest and/or student)

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Additional January Meeting Information

Colonel (ret) Richard Graham graduated from the University of Akron (Ohio) in 1964 and later received a Master's degree in Sociology and Public Administration from Pepperdine University (California). In 1964 he graduated from pilot training at Craig AFB where he remained and was the T-37 instructor pilot and flight examiner. In 1970 he was assigned to Davis-Monthan AFB to begin F-4 training, after which he assigned to the 555th Tactical Fighter Squadron at Udorn RTAFB.

Col. Graham became an SR-71 instructor pilot in 1978 and was selected as Chief of the Standardization /Evaluation Division, which included the SR-71, U-2 and T-38 aircraft. In 1980 Col. Graham was selected to be the SR-71 Squadron Commander, 1st Strategic Reconnaissance Squadron, where he served until 1981. He then was assigned to Air War College at Maxwell AFB in 1981.

In 1982, Col Graham was assigned to the USAF Pentagon HQ to work in Programs and Resources as a strategic force programmer. In 1986 he was selected to be the Vice Wing Commander, 9th Strategic Reconnaissance Wing, and remained there until his retirement in 1989. Upon retirement from the Air Force, he joined American Airlines as a Captain on MD-80 aircraft.

A veteran of 15 years of assignments within the SR-71 community, Col. Graham is uniquely qualified to tell the blackbird story. He is the 1999 recipient of the University of Nebraska William F. Shea Award for Distinguished Contribution to Aviation. His wife's name is Pat and they have five children and three grandchildren.

Regional Administrative Conference (RAC) to be held February 6-7 in Conjunction with Special ASME Continuity & Change General Assembly Meeting

See "Chair's Chatter" for Doug Brown's discussion of ASME's Continuity & Change (C&C) initiative that is part of this year's Region X Administrative Conference (RAC). Region X RAC activities will be conducted on Friday, February 6 and Saturday morning, February 7. The C&C General Assembly will convene on Saturday afternoon, February 7.

Mr. Reggie Vashon, ASME International President, has these thoughts on the C&C process:

"you should be aware of the important work that your elected leaders have been doing over the past several months to enhance the future of ASME through the Continuity and Change Initiative. That work will culminate over the next six months with a plan to redirect our vision in ways that are consistent with our goals to restructure the Society."

"To that end, it is very important that you help us redefine ASME. I urge you to attend the 2003 Congress this month for a firsthand look at the preliminary plan to reshape ASME."

The conference will be held at the Adams Mark Hotel, 2900 Briarpark Drive, Houston, Texas (Phone: (713) 978-7400 or 800-444-2326). Room rate for the conference is \$79.00 + 17% tax. ASME will reimburse travel expenses for two Section delegates. **In addition, our Executive Committee voted to sponsor up to two additional delegates.** To date, two Section members have expressed interest in attending. Therefore, **PLEASE CONTACT DOUG BROWN ((580) 531-5871; brownd919@asme.org) AS SOON AS POSSIBLE IF YOU WOULD LIKE TO ALSO ATTEND.** It is important that the Central Oklahoma Section is well represented at this important conference.

OEF ENGINEERING FAIR UPCOMING FEBRUARY 25

The annual Oklahoma Engineering Foundation (OEF) sponsored Engineering Fair will be held **Wednesday, February 25, 2004**, 9:00 a.m. to 2:00 p.m., at the Omniplex in Oklahoma City. The Engineering Fair allows 6th to 12th grade students to engage in a number of scientific and engineering pursuits. In addition, the Omniplex offers many attractions, including the *hands-on* Science Museum, Planetarium, Air & Space Museum, Photography Hall of Fame, Berlin Wall display, Center of American Indians and several galleries, gardens and exhibits.

ASME Central Oklahoma Section members: ***Does your child attend a school that participates in the Engineering Fair?*** If not, please consider encouraging your child's school to attend. The Engineering Fair is a great educational field trip for school kids. **Our Section will be hosting the Rubber Band Powered Vehicle Contest.** For ticket information call Omniplex at (405) 602-6664.

Besides the Rubber Band Powered Vehicle contest, other contests include Bridge Building, Eiffel Tower, Ping-Pong Ball Launcher, Robomaze, Wacky Wonder Works, and an Essay Contest. Contact information and a description of the Engineering Fair is available via <http://www.ospe.org/main.asp?org=2&rip=76>. Contest rules may also be downloaded. Admission to the Engineering Fair is free (except for admittance to OmniDome). Registration deadline is **February 20, 2004.**

Chair's Chatter

Dear ASME-Central Oklahoma Section Members:

My hope is that you and your families have just enjoyed a truly wonderful holiday season, and have gotten your new year off to a great start !!!

More about Continuity and Change at ASME International: The five General Assembly meetings at major population areas are to personally present the C & C initiative to as many ASME members as possible, and get as much understanding and participation as possible through direct discussion, questions & answers, and feedback.

The General Assembly in Houston on February 7th is fast approaching. We will have members from our Section at this General Assembly to hear the presentation and have the opportunity to participate.

Do not feel, or be, left out of this process. **YOU CAN PARTICIPATE DIRECTLY.** Please go to the ASME.ORG website and select **Continuity and Change** (<http://www.asme.org/change/>). It is easy and full of good information whether you wish to submit feedback for consideration or simply to become knowledgeable and informed. On the C & C site, on one page, there are links to many specific items including:

- ▶ The presentations on Continuity and Change;
- ▶ Notes from the Leadership Conference Discussion;
- ▶ All of the Member Feedback from the Congress General Assembly;
- ▶ A link to ASME's online *discussion board* for all **members to post questions, comments, and opinions.**
- ▶ The Preliminary Continuity and Change Plan;
- ▶ Member Survey Results from the Congress General Assembly;

ASME Leadership needs and wants YOUR comments and opinions and questions: *In March*, the Board of Governors will be reviewing and considering all of the Member-generated input from the five General Assemblies and Online Discussion Board, and any other way info is communicated to President Reggie Vachon and the Board. So, if you want to participate in the forthcoming changes to YOUR Society, **NOW IS THE TIME !!!** YOU CAN HELP GUIDE THE FUTURE OF ASME, if you wish to.

THANKS for the opportunity to share my thoughts with **YOU**.

Doug Brown – Chair

OU Student Design Team Attends National Congress and Places First in ASME FED Competition

Achievements of this OU Senior Design team were highlighted in our October 2003 COS Newsletter. Team members Joe Woodard, Daniel Sequera, Akinjide Famuagun and Hakeem Adedehinbo. Joe and Akinjide (“Dejay”) attended the ASME IMECE Congress as Fluids Engineering Division (FED) competition finalists and presented their work. The project, entitled “Air Entrainment Measurement of Slurries and Mixtures,” was sponsored by Halliburton Energy Services and mentored by Curtis Vickery under the auspices of OU-AME Professor Ajay Agrawal.

The OU team's project presentation won first place in this competition! Below are some photos. Congratulations Team!






(left) Student team members presenting their work to competition Judges. (right) Team members Akinjide Famuagun (left), Joe Woodard (second from right) and Daniel Sequera (right) pose with other student participants during the ASME Fluids Engineering Division Senior Student Design Project competition.

Student Section Activities

OC Student Section (Phillip Snell): Our Section held a joint meeting with the OC IEEE section on October 24, 2003. Jay Martin, of *Scott Sabolich Prosthetics Company*, spoke to a crowd of 95 students about the advancements in prosthetic technology through mechanical, electrical, and bio engineering. At the conclusion of this meeting ASME promoted student membership opportunities and immediately had many new students register to be a part of the organization. It was a great meeting that was very informative and beneficial to all.

Future ASME-Central Oklahoma Section and Other Events

Date	Location	Program Topic and Speaker
Jan. 16, 2004 (Friday)	Okla. Engineering Center 201 NE 27th Street, OKC	OU/OSPE Seminar: "Business Presentations", 8:30AM – Noon OU/OSPE Seminar: "Running Effective Meetings", 1:00 - 4:30PM See: http://www.ospe.org/seminars.asp?org=1 for info.
Jan. 22, 2004 (Thursday)	Okla. Engineering Center 201 NE 27th Street, OKC	Joint Meeting with Oklahoma AIAA Section Speaker: Col. Richard Graham, AIAA Distinguished Lecturer Topic: "SR-71 Blackbird – An Engineering Marvel"
Feb. 7, 2004 (Saturday)	Adams Mark Hotel Houston, TX	ASME Region X Regional Administrative Conference featuring ASME's Change & Continuity Town Meeting.
Feb. 7, 2004	Lawton, OK	SW Oklahoma Regional MATHCOUNTS Competition
Feb. 14, 2004	OKC, Enid, Wilburton OK	Central, NW, SE Regional MATHCOUNTS Competitions
Feb. 22-27, 2004	Kirkpatrick Omniplex, N.E. 52 nd St. @ M. L. King Blvd OKC	 National Engineers Week: Engineering Fair, All Engineering Societies Banquet, & other Events
Feb. 28, 2004 (Saturday)	Okla. Christian University, Edmond, OK	  24 th Annual AIAA-ASME Symposium

FOR UPDATES ON THESE AND OTHER EVENTS, VISIT OUR SECTION WEB SITE AT
<http://www.asme.org/Sections/CentralOK>

ALSO VISIT THE ASME SOUTHERN FIELD OFFICE, DALLAS, TX AT
<http://www.asme.org/regions/sro/>

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