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FSEC Representative
& WEB Masters
Dave Chasar, Will Judd, &
Hugh Bain

Web Page:
<http://sections.asme.org/canaveral/>

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Message from the Chair...

Happy Holidays!

My wife Diane and I, along with the wrest of the Canaveral Section leadership wanted to say to say have a safe and happy holiday season as we put the wraps on 2004 and welcome 2005 with anticipation and excitement. Each year brings us new opportunities in our both our personal and professional lives. Some times they creep up on and other times they are the results of long time planning coming to fruition. As 2004 comes to an end take some time to reflect on what you where able to accomplish and be proud in the part you play that helps put satellites into space, help our armed service communicate safely and securely, or the services and products you provide through your employer or in your role an entrepreneur! As engineers we are on the cutting edge of technology in making the world a better place and you deserve to be proud of the part you play.

Local involvement in ASME has given me a chance to meet people I may not otherwise would have had the opportunity to meet and learn from and this first half of the program year has provided several opportunities. Coming up after the Holidays we will have our Annual Awards Banquet in January where we recognize our members for significant years of involvement. In February we celebrate E-Week and will help host the CCTS Engineering Awards Banquet. We have other events on the horizon as well so take a look at the enclosed schedule of events and don't hesitate to contact me if you have questions.

Again, we hope you have a joyous holiday season and look forward to seeing you in 2005!

As always, please see our web page at <http://sections.asme.org/canaveral/> for further information of these and other events coming up soon.

Dan Johnson

Links to Useful Websites

Southern Field Office: <http://www.asme.org/regions/sro/>

Region XI Home Page: <http://www.asme-xi.org/>

ASME International Home Page: <http://www.asme.org/>

Canaveral Council of Technical Societies (CCTS): <http://www.canaveralcts.org/>

November 2004 – Mini Topic Evening

We had a good turnout for our mini-topic meeting this year held at Florida Tech in the Olin Engineering Building. We had a combination of about twenty Canaveral Section and Florida Tech Student Section members in attendance and taking part in pizza and soft drinks prior to kicking off our talk.

This year we had Mike Meyers and Ruth Wilburn from Florida's Blood Centers come and speak to us about the process that is used to draw and process the blood into products and who benefits from these donations. I was quite proud of the 25% of people in attendance that raised their hands when asked if they had ever donated blood. On average the statistics show that only about 6% of the populace are blood donors. The blood products drawn in Brevard County stay in Brevard County. The process of donating blood is becoming easier by offering you several opportunities to donate through local blood drives often where we work or shop. You can also stop by a number of the local offices to donate there. You can always donate whole blood and the staff will then process it into the different products they need at that time such as red blood cells, platelets, or plasma once every 56 days. To give more often, there is a process called apheresis and this is where your blood is drawn out through a needle and into a centrifuge where it is separated into plasma and platelets with a return of whole blood back to the donor. This process allows donors to participate as often as every two weeks if they like to help keep a good supply of these critical blood products available. Contact your Florida's Blood Center today if you would like to get more actively involved in helping to save the lives of your friends and neighbors. This is especially true at this time of year when the need is so high due to folks traveling over the holidays and the number of accidents is on the rise.

We were also lucky enough to have **Hugh Bain**, our past chair, give a talk about his experience in Iraq when he was called up to active duty with the Florida National Guard at the beginning of the Iraq War. Hugh brought in photos showing the living conditions, people he met, and things he saw on the streets of Iraq. He shared his experience with the locals and how some would serve as translators to help the US Forces. He also told how this act often cost the Iraqi volunteers their lives when the insurgents would retaliate and use them as an example to try and deter others from helping the US Forces. Hugh spent 15 months away from home serving his country and we thank him as well as the other members of our military for making this sacrifice. Hugh is back now and is enjoying time with his wife Keitha and their daughter Kayla that was born two months after he was first deployed.

Dan Johnson

Register now for the Miniaturization in Biomedicine Impact Forum!

If you are an engineer, or involved in Business Development from biotech and biomedical device companies, a student, or a professional interested in the development of Nanotechnology, then this forum is for you!

The Miniaturization in Biomedicine Impact Forum will take place from April 7-8, 2005 in Irvine, Calif. at the Hilton Irvine/Orange County Airport

Learn how biotechnology and biomedical device sectors can benefit from Nanotechnology. Explore solutions that can help transform healthcare.

For more information, visit <http://www.asmeconferences.org/nanobio05/index.cfm>

More Salaries in Mechanical Engineering

While you were unable to participate in the 2004 survey of income in mechanical engineering, sponsored by the American Society of Mechanical Engineers, you will undoubtedly be interested to learn that "Compensation in Mechanical Engineering, 3rd Edition - 2004" has recently been published.

This unique, 576-page publication reports the base salaries, other cash compensation, and total cash compensation of 8,963 members of ASME.

In my previous e-mail, I provided pay data on M.E.s nationwide and by job title. Herein, I'll comment on M.E. salaries by region and metropolitan area, type of employer, and primary job function. In a subsequent e-mail, I'll comment on M.E. salaries by level and field of education, length of engineering experience, engineering specialty, registration status, and supervisory/managerial responsibility.

Among the many survey participants, income varied somewhat by region. The median incomes (base salary + cash bonuses/commissions/profit sharing) by region are:

Southwestern States - \$90,000, Pacific States - \$86,925, Mountain States - \$86,550, Southern States - \$83,000, Northeastern States - \$83,000, North Central States - \$79,000, Midwestern States - \$78,000

This new report is an invaluable tool for determining the right pay for 40 well-defined benchmark jobs - ranging from President and College/University Department Head to Junior Consultant.

Also available is "findpay" for Mechanical Engineering - 2004, a computer program which quickly and easily delivers all the information in the 576-page survey report - and more - by allowing unlimited searches for pay levels for each survey job on the basis of two or more variables simultaneously.

You can review a limited demonstration version of the findpay program by visiting:

<http://www.abbott-langer.com/download/?bpo>

To receive your copy of this timely report, you (or your employer) can just:

* log on to

<https://33.securedata.net/abbott-langer/engrbuy.html?bpo>

* phone us at 708/672-4200 (between 9 a.m. and 4:30 p.m. CST);

* print out and complete the form below, and fax the form to us at 708/672-4674;

or

* hit REPLY, complete the form below, and hit SEND.

Your copy will be sent to you immediately, via FedEx ground to ensure that you receive it rapidly.

What's happening at Florida Tech

Tours, meetings, impromptu design competitions, and joint gatherings with the Canaveral Section are held throughout the regular Fall and Spring semesters. To get in contact with the Florida Tech Student Section please do not hesitate to contact Student Section Advisor **JD Van Gilder** at jvangild@harris.com.

Treasure Coast SEA

Vero Beach and the Treasure Coast were hit very hard during the past hurricanes and as such the regularly scheduled meeting held down there for the local retirees have been affected. No meeting took place in October and the November meeting is not currently planned. As upcoming meeting topics get organized we will get the word out through the newsletter, e-mail, and through the telephone network set up by the locals in the Vero area.

Meetings are held on the third Friday of the month and meeting announcements will be sent via e-mail and the Vero Beach Press Journal prior to each meeting. If you would prefer to be reminded by any other method (phone, mail, etc.), please contact **Kelly Mather** at mather@iu.net.

New Benefit for ASME Members!

ASME members can now subscribe to Chemical Engineering Progress (CEP) from AIChE at their member price of \$30 – a savings off the non-member price.

This is a great benefit for mechanical engineers who work with chemical engineers or in an industry where up to date knowledge of chemical engineering is a plus. For information about the contents of Chemical Engineering Progress, please check the AIChE website (www.aiche.org)

To take advantage of this offer, send your check for \$30, made out to AIChE to: John Beck, Manager, Member Records, ASME, Three Park Avenue, New York, NY 10016. Please include your ASME member number in the request. For questions, please contact John Beck at 212-591-8463 or beckj@asme.org

December 2004 – Ice Plex Tour

Don't forget about our tour of the Rockledge Ice Plex this coming Saturday, December 11!

JD Van Gilder has organized an event where we get a tour of the ice rink and its refrigeration system right here in our own back yard. After the tour we will get a chance to take part in some Ice skating and social time. This is a family friendly get together as well as a joint event with the Florida Tech Student Section. So sign up early so we can get a good head count on the number of people to expect so we can let the folks at the Ice Plex know.

Engineers Provide Sustainable Solutions Through International Volunteerism

ASME members around the world have the chance to get involved in real-world engineering projects, gaining exposure and training in internationally responsible and sustainable engineering through ASME's partnership with Engineers Without Borders™ – USA (EWB-USA).

Offering a unique opportunity for professional engineers (active or retired) and engineering students, EWB-USA is a non-profit organization established in 2000 to help developing areas worldwide with their engineering needs.

EWB–USA projects may involve the design and construction of water, waste-water, sanitation, energy, and shelter systems. Projects are initiated by, and completed with, contributions and support from the local, host community, which is trained to operate the systems without external assistance. In this way, projects are appropriate and self-sustaining. The projects are conducted by groups of students under the supervision of faculty and professional engineers from partnering engineering firms and professional Societies.

ASME members should contact Diedra Hackley () if they are interested in any of the above projects, or would like to propose a project of their own.

1st European Micro and Nano Systems International Conference a Success!...

The first European Micro & Nano Systems International Conference, held in Noisy le Grand, France (near Paris) from Oct 20-21, drew approximately 100 attendees from around the world.

Managed locally by ASME's French Section, the conference attracted 5 invited talks, 38 oral presentations and 31 poster presentations. The effort was jointly organized by ASME, the ASME Nanotechnology Institute, TIMA (Techniques de l'Informatique et de la Microélectronique pour l'Architecture, France) and ESIEE (Ecole Supérieure d'Ingénieurs en Electronique et Electrotechnique, France).

Plans are being currently developed to offer the 2nd edition of the conference in Oct. 2005 in Paris, France. Sections in the US and abroad interested in organizing timely programs can explore options with the ASME Advanced Technology Program unit - contact Natasha Robertson at nano@asme.org or telephone: 212 591 7072

Don't Miss the ASHRAE Dissemination Train

In a casual and relaxed setting, meeting attendees have the opportunity to not only learn about developments and trends that are likely to influence the industry, members are also afforded the opportunity to focus on issues and concerns of specific relevance to their own business.

Attendance at sessions and committee meetings also provide the basis for the development of long-lasting, personal relationships that benefit each participating member in the course of doing business throughout the year. Join 45,000 of your fellow ASHRAE members and industry peers in determining the technology of the future at the 2005 Winter Meeting and AHR Expo®.

The meeting will focus on quality – through ASHRAE's technical program, meetings of committees dedicated to producing technical information, educational programs and technical tours.

ASHRAE meetings are where members develop technology that helps keep indoor environments comfortable and productive, deliver healthy food to consumers and preserve the outdoor environment.

At the meeting, ASHRAE will continue its celebration of the centennial anniversary of The American Society of Refrigerating Engineers with a refrigeration museum and refrigeration-related presentations.

ASHRAE's committee meetings and technical program will be held in the Wyndham Palace Resort with some of the technical committee (TC) and standards project committee (SPC) meetings scheduled in the Grosvenor Resort. The Expo will be held at the Orlando Convention Center. The Orlando Convention Center is located on International Drive, a 20- to 30-minute bus ride from the ASHRAE hotels.

Registration for the 2005 ASHRAE Winter Meeting is \$580 (\$340, ASHRAE member) before Dec. 10. After Dec. 10, the registration fee will be \$680 (\$440, ASHRAE member).

For more information or to register, visit www.ashrae.org/orlando. In addition, questions may be directed to Host Committee Chairman William M. Dillard at bdillard@msifla.com.

Brain Teaser

The Brain Teaser is a math or science type problem will be presented and you can respond by e-mail with your solution. For those of you who get the correct answer you will go into the running to get a gift certificate to a local restaurant at the end of our Program Year. The person with the most correct answers wins.

Here are the folks who have met the challenges so far!

Newsletter People who got the Correct Answer

September David Wadzinski

October No One

November Tom Bowman, David Wadzinski, Leon Cole, Willie Daffron, Jack Wiles, Bill Imre

The answer for last newsletters Brain Teaser is as follows if you could not figure it out.

Arrange the following numbers in a 3 x 3 grid so that the numbers total 27 vertically, horizontally, and diagonally.

1, 3, 5, 7, 9, 11, 13, 15, 17

3 17 7
13 9 5
11 1 15

Here is the new Brain Teaser for this month, good luck!

Scales #1 and #2 are in perfect balance. How many Xs must you put on the right side of Scale #3 to make it balance?

Scale #1

Left side: XXYZ Right side: XXXXY

Scale #2

Left side: YYYY Right side: XXZZ

Scale #3

Left side: YYZ Right side: ?

Good Luck! Send your response to Dan Johnson at djohns08@harris.com.

Celebrating 125 Years of ASME

Log onto www.asme.org/anniversary for up-to-date information on events for ASME's 125th anniversary, as well as how your local section can become involved.

Events that are scheduled to take place in 2005 so far:

- **Founders Day: February 16, Wednesday**
- **Boiler Code Day: March 12, Saturday**
- **Heritage Day: April 7, Thursday**

Other events slated to take place during 2005 include landmark designations for William Seller's Screw Threads at the Franklin Institute in Philadelphia, Pa. and the Model-T at the Henry Ford Museum in Dearborn, Mich.

Region XI RTC CALL FOR PAPERS

Dear Region XI ASME Member:

On April 8-9, 2005, Region XI will host the Fourth Annual Southeastern Region XI Technical Conference. This conference is designed to provide you with a unique opportunity to participate and experience a technical paper presentation.

In recent years, ASME has placed a strong emphasis in providing programs and activities that help young engineers, especially recent graduates, prepare and develop as professionals. In keeping with this objective, Region XI has organized this conference with the intent of enabling graduate students and recent graduates to develop their "technical credentials" and to establish a "professional identity" in a no-risk friendly environment.

Region XI board members and the staff of the Southern Regional Office have worked hard to develop this technical forum. And we feel this program will be of great benefit to you in providing you with an exceptional educational experience that will enhance your marketability to potential employers as well as refining your research, writing and presentation skills.

By participating, you will also gain an understanding of the important role ASME can play in expanding your professional horizons and in maintaining and advancing your technical competence. In doing so, it recognizes ASME as a critical resource for continuing education and professional development, and reinforces the concept that "ASME is for a Lifetime."

Attached you will find the complete details concerning the conference. I invite you to participate in this learning opportunity by authoring a technical paper. The topic is up to you. It can be something you are working on now either in your job or in graduate school, or something you worked on as a senior project or thesis. In order to participate, you must be an ASME member and meet the criteria described in either Category A or B (see attachment).

If you have any questions concerning the conference, please feel free to contact me. If you have any trouble in opening the attached document, please contact Julie Prudhomme, Administrator of the Southern Field Office, at 800-445-2388 or send an e-mail to sfo@asme.org. This material is also located on the Region XI website at <http://regions.asme.org/sro/xirtc2005.htm>.

Sincerely,
Lee Crawford
Vice President, Region XI



AMERICAN SOCIETY OF MECHANICAL ENGINEERS

CCTS
P.O. Box 245
Cape Canaveral, FL 32920

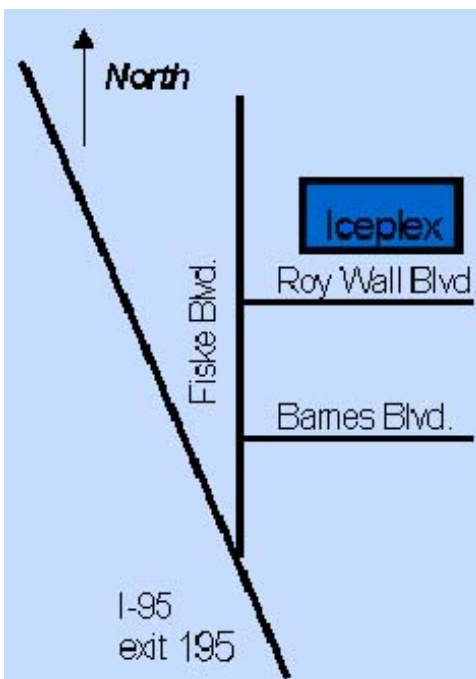


Canaveral ASME Program Year 2005 Calendar

<u>July</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>
No Event Planned	<i>Tour: Brevard Zoo "Wild Side" Outing</i>	Speaker: Dan Koenig on Engineer Entrepreneur	<i>Tour: AF Missile Museum</i>
	<i>Date: Aug 15</i>	Date: Sep 22	<i>Date: Oct 16</i>
	<i>Location: Viera</i>	Location: FSEC	<i>Location: Cape Canaveral</i>
	<i>POC: Leanna Konowicz (KONOWILC@usa-spaceops.com)</i>	POC: Dan Johnson (djohns08@harris.com)	<i>POC: Jack Wiles (jwiles@webtv.net)</i>
			DL Speaker: Dr. Rhode on Virtual Product Development
			Date: Oct 20
			Location: FSEC
			POC: Alan Zakaluk (azakaluk@harris.com)
<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>
Mini-Topic Evening: Hugh Bain's experience in Iraq, & TBD	<i>Tour: Ice Skating Rink (Joint event with FIT Student Section)</i>	Award's Banquet; Speaker: TBD	CCTS E-Week Banquet with DL Speaker (Joint Effort w/ Florida Section)
Date: TBD	<i>Date: Dec 11</i>	Date: Jan 12	Date: Feb 18
Location: Florida Tech in Melbourne	<i>Location: Rockledge</i>	Location: Hotel in Melbourne/Cocoa Beach	Location: Hotel in Cocoa Beach
POC: TBD	<i>POC: JD Van Gilder (jvangild@harris.com)</i>	POC: TBD	POC: Alan Zakaluk (azakaluk@harris.com)
ASME Industry Event at Suntree CC w/ Guest Speaker Paul Burke (STB)		For More Info (STB)	E-Week Speakers
Date: TBD		<i>Date: Jan 22</i>	Date: Feb 21-25
Location: North Melbourne		<i>Location: Indian Harbor Beach</i>	Location: Brevard County Schools
POC: Paul Burke & Scott Seigel		<i>POC: Will Judd (WEJudd@xch-bsco-06.ksc.nasa.gov)</i>	POC: Stephanie Hopper (STHopper@xch-bsco-06.ksc.nasa.gov)
<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>June</u>
FIT Student Section Dinner & Design Presentation	<i>Tour: NSLD</i>	DL Speaker (Joint Effort with Florida West Coast Section)	Speaker/Tour: TBD
Date: Mar 30	<i>Date: TBD</i>	Date: TBD	Date: Jun TBD
Location: Melbourne	<i>Location: Cape Canaveral</i>	Location: TBD	Location: TBD
POC: JD Van Gilder (jvangild@harris.com)	<i>POC: Stephanie Hopper (STHopper@xch-bsco-06.ksc.nasa.gov)</i>	POC: Alan Zakaluk (azakaluk@harris.com)	POC: TBD
			Legend:
			Indicates Status Confirmed



Join us at the Space Coast Iceplex for a tour of the facility and some fun on the ice. Refreshments will be available at the social, which starts at 7:00PM. We will then tour the facility and all of the equipment used to keep the ice at the correct temperature and the power consumption required to accomplish that goal. We will also get to see them surface the ice using the Zamboni. The tour is open to all members and their guests. Skates will be provided, but feel free to bring your own if you have a pair. Hope to see you there for this fun filled event.



When: Saturday, December 11, 2004

Social: 7:00PM

Tour: 7:30PM

Open Skating: 8:00PM – 10:00PM

Location: ICEPLEX 720 Roy Wall Blvd. Rockledge, FL

Cost: \$7.00 per person