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

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& change
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Message from the Chair...

Canaveral Recovers from Three Hurricanes

Who would of thought that when I sent out the last newsletter that there would have been three hurricanes come ripping through our area with a fourth hitting our friends up in the panhandle? It has been a wild few weeks for all of us with varying degrees of devastation across our community. We all have had to pay some price from loosing power to loosing roofs and all points in between. Now is the time for us to rebuild at the local level and we are getting help from FEMA, insurance companies, and the armies of power workers and construction contractors coming in from out of state to help bring us back to normalcy.

That is our goal here with your local ASME section as well, to get back to normalcy. We have started by having our first guest speaker of the year come in on September 22 at FSEC in Cocoa. Daniel Koenig spoke on being an Engineering Entrepreneur to a group of nearly 20. Our tour of the Air Force Missile Museum originally scheduled for October 9 has been pushed out to October 16, but we are still going to have this fun and informative tour event. Then on the following Wednesday, October 20, we will have our first Distinguished Lecturer of the year Dr. Steven Rhode speaking at FSEC in Cocoa about computer design tools in the automotive industry. We are doing what we can to keep on tract by bringing these activities to you.

Help us get the ball rolling to get us all back to life as normal on the Space Coast by signing up for these and the other events on the horizon. Look forward to hearing from you soon.

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

On-Line Training Opportunities at ASME.Org

ASME offers a variety of on-line training courses that you can schedule when it is convenient for you. Check it out today at the following link!
<http://www.asme.org/education/disted/library.htm?IMAGE.X=26&IMAGE.Y=8>

Daniel Koenig speaks on Engineering Entrepreneurship at September Meeting

About 20 of us meet on Wednesday, September 22 at Florida Solar Energy Center (FSEC) in Cocoa to listen and ask questions of our guest speaker, Daniel Koenig. Dan is a consultant and brought his years of experience on product, manufacturing, and running your own business to give us a very good overview on the pros and cons of being your own boss in an engineering venture. Dan has authored several books, two of which can be obtained through ASME Press and here is a link to the one on Engineering Entrepreneur.

<http://members.asme.org/catalog/ItemView.cfm?ItemNumber=801934>

October 2004 - Air Force Missile Museum Bus Tour!

Our second tour of the program year will be a bus and walking tour of the Air Force Station Space and Missile Museum has been rescheduled from Saturday, October 9 to the following Saturday, October 16 due to a launch that was postponed and the storms.

This tour is open to US Citizens as well and is open to the family. Due to the nearness of the event we can not take any more foreign nationals due to the time it takes to go through security.

The chartered bus has air conditioning and lavatory facilities on board for the 54 of us that will be able to go. We expect it to fill up quick so don't delay, sign up today. See the attached flyer for more information about the tour and again for RSVP information.

Special Thanks to **Jack Wiles** for leading the charge on this project and getting everything organized!

Canaveral Cryogenics Professional Development Course

The Cryogenics course being offered in October has been postponed at this time. We were not getting the registration that we hoped for so it will be rescheduled for later in the program year. As the dates and location get finalized we will get the word out through the normal channels under the leadership of **Scott Seigel**.

ASME Communities of Practice

Want to talk to your peers about technical matters, career and personal interests? Want to do that without going to a meeting or even leaving your desk? ASME now offers you a new tool to communicate, get the information you need and meet others with similar interests and concerns at the new ASME Communities of Practice site.

On the CoP site, you can join a community, suggest a new community, participate in discussions and polls, and post your own message or request to be notified when messages are posted on the community. It's your choice what communities you participate in, and how you choose to participate.

You will need to register the first time that you use the page, and set your preferences for your home page. It only takes a few moments - then you are ready to participate, or just observe the discussions. To visit the site, and test the features yourself, go to www.cop.asme.org.

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 (CTS): <http://www.canaveralcts.org/>

October 2004 – First Distinguished Lecturer of the Program Year!

We are still on track for the October 20 when we will have our first ASME Distinguished Lecturer of the season. We are proud to be able to bring in to talk to our section Dr. Steven Rhode, an ASME Distinguished Lecturer, who will be speaking about Virtual Product Development from an Automotive Perspective.

Have you an interest in virtual product development and the design tools used to create them? The multimedia lecture traces the evolution of math based design and engineering in the automotive industry, and the benefits of that approach.

Today the digital computer is being used extensively to design and engineer automotive vehicles. In addition, onboard computers and electronics are playing an ever increasing role. Both of these applications of digital technology are providing consumers with higher quality products in less time and at lower cost.

This multimedia lecture by Steve Rhode traces the evolution of math-based design and engineering in the automotive industry, and the benefits of that approach. Beginning with the "old days" in which road testing was the primary way to develop automotive vehicles, the lecture describes the movement to laboratory testing, and then to the "virtual" world.

The concepts of virtual product development and math-based synthesis are introduced. These concepts, together with a systems engineering based Vehicle Development Process (VDP), enable the strategic application of math-based technology to all facets of the vehicle creation process. This includes the use of mathematical models to: optimally position products in the marketplace; style vehicles; translate the customers' voice into product functional characteristics; and synthesize robust physical realizations, i.e., vehicle designs to meet both the physical and functional requirements, as well as producibility requirements. Virtual product development is enabled by the use of a multitude of different types of mathematical models and computer-based methods at different levels of detail. The logical integration of these models into the VDP yields the "Virtual Vehicle" concept. More specifically, the virtual vehicle is defined, and examples of its use and associated benefits throughout the VDP are shown. Besides resulting in shorter product development cycles at reduced cost, fewer prototype hardware builds, and improved product quality for the customer, the "virtual" approach presented enhances innovation markedly. Challenges associated with the implementation of a math-based approach, the use of novel math-based technology including advanced signal processing techniques, and the synergism with hardware testing will also be discussed.

This event too will be at Florida Solar Energy Center and for more information see the attached flyer for additional program information and how to RSVP.

For more information on Dr. Rhode, and other distinguished lecturers, please visit the www.asme.org and visit the distinguished lecturer Program (DLP) section.

Dan Johnson

What's happening at Florida Tech

Due to the Hurricanes which lead to quite a bit of damage on campus, missed classes, and other circumstances, the student section at Florida Tech in Melbourne got off to a slow start this year. The first meeting of the year was held this past week at where **JD Van Gilder**, Canaveral Section liaison and Student Section Advisor, and the student section leadership talked to the members and prospective members a little bit about the benefits of ASME membership and had an impromptu design contest which always gets the competitive juices flowing and makes for a fun evening.

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 September and the October 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.

ASME International Mechanical Engineering Congress

The 2004 ASME International Mechanical Engineering Congress is being held November 13-19 at the Anaheim Hilton in Anaheim, California.

Make your plans to attend this Annual Business Meeting! For complete details on committee meetings, special events and travel information visit the Conference page on the web at <http://www.asmeconferences.org/congress04/>.

For a complete preview of technical sessions focusing on design engineering, go to <http://www.asme.org/congress> and click on "Program Overview", then choose "Design Engineering" from the list of topics.

In each session listing, you will find the title, participants with their affiliations, papers titles, and abstracts.

In addition to featuring peer-reviewed research, an array of special events, panel discussions, and networking opportunities, the ASME Congress also features a curriculum of short courses. For full details, visit <http://www.asmeconferences.org/Congress04/SeminarCourses.cfm>

Co-located with Congress, the Research, Development and Design Expo (RD&D) is the only event dedicated to new discovery, showcasing the latest developments and tools in the world of engineering. For the latest information on this event, visit <http://www.rdexpo.com>

ASME Inter-Comm October 2004

Inter-Comm is published periodically for ASME volunteer leaders to increase their awareness of activities of the Society. Contact: Diane Kaylor at 212-591-8159 or kaylord@asme.org.

The Board of Governors, at its September meeting, approved the guidelines that will govern the ASME Nominating Committee (NC) and selection of ASME Officers. The 2004-05 NC will be the one elected at SAM 2004. The 2005-06 NC number and distribution of members and first alternates is to be determined by the ASME BOG prior to SAM 2005. For details, visit the Change & Continuity website at www.asme.org/change/. Contact: Dave Soukup at soukupd@asme.org.

ASME executive management and senior volunteers will update members on the Phase II transition mid-term status of ASME's Continuity and Change initiative at a Congress 2004 General Assembly, Monday, November 15, Anaheim Hilton, Calif., 8 a.m. to noon. Visit the Continuity and Change site at www.asme.org/change.

New Faces in Engineering is a special opportunity for young engineers to shine. Interested candidates (or those who know someone) should submit a nomination by Oct. 15. Visit New Faces at www.asme.org/eng_week/NewFaces2005.html. Contact: Marina Stenos at stenosm@asme.org.

The Board of Governors has approved the 2005-2006 ASME Public Policy Agenda, which outlines the priority issues of the Society for the next two years. The document will be released to policy makers on Capitol Hill, in the

ASME Inter-Comm October 2004 (continuation)

federal agencies and in state governments in December 2004. Contact: Francis Dietz at dietzf@asme.org.

The Board on Diversity and Outreach is sponsoring "Diversity as a Strategy: Perspectives from Academia and Industry," a special event at ASME's 2004 IMECE in Anaheim, Sunday, November 14, 5:30-7 p.m. Bonnie Dunbar of NASA's Johnson Space Center will moderate. Visit <http://www.asme.org/communities/diversities/bdo/>." Contact: John Holquin at holquinj@asme.org.

Engineers Without Borders (EWB) is looking for more project teams to apply by Dec. 1. As its legacy project, the one that continues beyond its hosting year, ASME has partnered with EWB for Engineers Week 2005. Young engineers, students, and mentors from all fields of engineering are encouraged to join or build teams for carrying out projects wherever needed. All teams should contact ASME before applying to EWB. Visit www.asme.org/students/ewb.html. Contact: Deidre Hackley at hackleyd@asme.org.

Engineering Workforce Training & Development Towards 2020 and Beyond, a half-day conference taking place on Mon., Dec. 6, at the Hilton Hotel in Trinidad, will feature speakers from government, industry and academia, including ASME President Harry Armen and the president of Trinidad, His Excellency Professor George Maxwell Richards, a chemical engineer. ASME's EWeek corporate co-chair, BP, co-sponsor of the event along with the ASME Trinidad Section, will be represented by John Baxter, Director of Engineering. The event will also feature the launch of ASME's Engineering Management Certification program. Contact: Michael Michaud at michaudm@asme.org.

What are you doing Founders Day (Feb. 16), the kickoff event for ASME's 125th Anniversary in 2005? All divisions, institutes, regions and sections are encouraged to celebrate throughout the year, reaching out to other engineering societies, student groups, civic organizations, etc., to share in the celebrations with ASME. Organizers can register their events by contacting anniversary@asme.org. Visit the website www.asme.org/anniversary for further plans.

Brain Teaser

We only had a couple of responses to the brain teaser last month but unfortunately I have not had time to grade those papers yet. I'll let you know next month how the respondents did and give you a running total of who is the lead this year.

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.

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

The distance from Anglechester to Clinkerton must be 200 miles.

The train went 50 miles at 50 m.p.h. and 150 miles at 30 m.p.h.

If the accident had occurred 50 miles farther on, it would have gone 100 miles at 50 m.p.h. and 100 miles at 30 m.p.h.

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

"Yes, when I take my dog for a walk," said a mathematical friend, "he frequently supplies me with some interesting puzzle to solve. One day, for example, he waited, as I left the door, to see which way I should go, and when I started he raced along to the end of the road, immediately returning to me; again racing to the end of the road and again returning. He did this four times in all, at a uniform speed, and then ran at my side the remaining distance, which according to my paces measured 27 yards. I afterwards measured the distance from my door to the end of the road and found it to be 625 feet. Now, if I walk 4 miles per hour, what is the speed of my dog when racing to and fro?"

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

ASME, BDO Special Session Invitation - Diversity As A Strategy: Perspectives from Academia and Industry

This special session invitation is being sent to you on behalf of Mulchand S. Rathod, Vice President, Diversity and Outreach

Dear Friends and Colleagues:

I want to, once again, invite all of you to a special event that the Board on Diversity and Outreach is sponsoring at the upcoming 2004 IMECE.

"Diversity As A Strategy: Perspectives from Academia and Industry" is a forum that will focus on how academia and industry are incorporating diversity as a strategy into their business plans.

The forum will be held on Sunday, November 14th from 5:30 PM until 7:00 PM and will feature a distinguished panel from industry and academia to address three key topics:

- * Why is diversity as a strategy important?
- * What is being done to implement diversity as a strategy?
- * What training or other resources are available?

Dr. Bonnie J. Dunbar, Assistant Director for University Research & Affairs, NASA-Johnson Space Center, has agreed to moderate the panel discussion.

The leading organizations of the 21st Century will be those that create a constant stream of innovative goods and services winning customers and earning loyalty through exceptional performance. No one type of person, or group of people, has all the skills and talents needed. Organizations need to recognize the importance of diversity in maintaining leadership in today's global marketplace. Embracing diversity and a culture of inclusion and respect create new global capabilities and attract new customers to accelerate growth.

The forum is open to all IMECE registrants without additional charge. I encourage you to participate in this forum and to encourage your colleagues to do so as well. Last year's program was "standing room" only and received rave reviews from those who attended. We hope to see you there! To register for this special event please go to: <http://www.asme.org/communities/diversities/bdo/>

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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 9</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



Saturday, October 16, 2004

Time: 8:30am - 2:00pm

**Location: Pass & ID Office Parking Lot,
Canaveral Air Station, Canaveral, FL**

Canaveral Air Station Missile Museum Tour

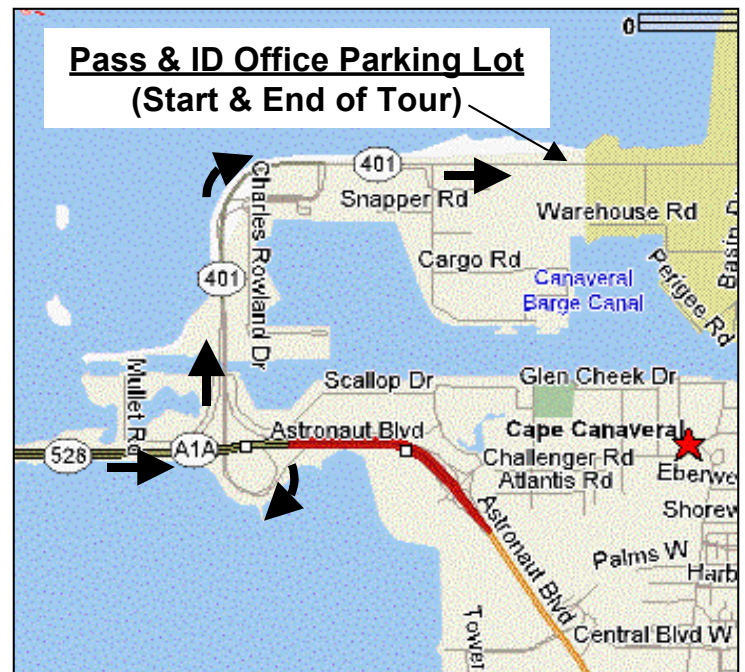
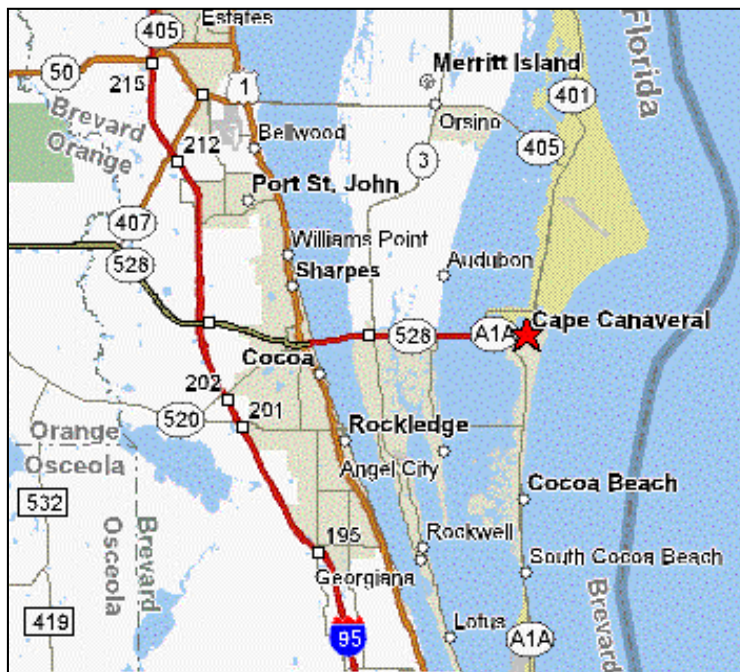
Join us for this unique VIP Bus and Walking Tour where we will visit the Air Force Space and Missile Museum, historic satellite and manned launch sites, the famous Cape Canaveral Lighthouse, and have a drive-by of Kennedy Space Center's Shuttle Launchers, the Vertical Assembly Building, the Crawler-Transporters, the Launch Control Center, the Shuttle Landing Strip, the Mate-Demate System, the KSC Headquarters, and related Center buildings.

Lunch is at the Navy's "Greenhouse" where your choice is Chicken & Rib Barbecue or a vegetarian Plate. During lunch there will be a presentation on the Navy's mission here in Canaveral.

After lunch its back on the bus where Mac McLouth, ASME Member & Canaveral Port Authority Executive Director, has arranged a tour of the Port and its many unique engineering features.

We have chartered a 54-passenger, air-conditioned bus with lavatory and will have an Air Force assigned tour guide to provide running commentary via the on-board public address system.

This Tour is open to Citizens and Foreign Nationals. Air Force Security does require a list of attendees as soon as possible so don't delay, sign up today to save your spot for this unique tour.



Cost – \$17.50/person (includes bus pass and lunch)

RSVP by: Oct10, 2004

RSVP to: Dan Johnson - djohns08@harris.com or by phone at 321-729-3686.



DISTINGUISHED LECTURER

"The History, Status & Future of Virtual Product Development: An Automotive Perspective"

This multimedia lecture by Steve Rohde traces the evolution of math-based design and engineering in the automotive industry, and the benefits of that approach. Beginning with the "old days" in which road testing was the primary way to develop automotive vehicles, the lecture describes the movement to laboratory testing, and then to the "virtual" world.

SPONSORED BY: ASME Canaveral Section

**WHERE: Florida Solar Energy Center
1679 Clearlake Road, Cocoa FL**

WHEN: Wednesday, October 20, 2004

Social: 6:00 pm

Barbeque Dinner: 6:30 pm

Lecture: 7:00 pm

Cost for Dinner: \$10 Members/\$5 Students

RSVP by: October 18

RSVP to: Dan at djohns08@harris.com or 321-729-3686