

The Canaveral Flyer

April 2007

A Newsletter of the Canaveral Section of ASME International



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Greetings Canaveral Section Members,

Dr. Phil Scarpa gave an excellent presentation regarding the medical and physical challenges that the astronauts endure during and after space travel. He spoke of current research projects to counter these effects and discussed the medical challenges that NASA faces for extended space flight and ultimately the trip to Mars. Our thanks go out to him for his time and efforts presenting this material.

April brings us some very interesting events with Florida Tech. They will be conducting their Senior Design Showcase on April 13th at the Clemente Center. This event showcases all Senior Design projects on campus and allows outside participation from industry to judge the projects on technical content, presentation of design, level of complexity, etc... It is an excellent opportunity to see what the students are doing, offer your engineering review, judge how they did, and potentially inform them where they could improve.

We will also be holding the annual Senior Design Presentation dinner at Florida Tech. This event allows Mechanical and Aerospace seniors to present their senior design project to the audience and answer any questions that you may have. This year's event will be held in the Board Room located on the North East corner on the first floor of the Denius Student Center. See detailed event information on sheet two below the calendar of events. Please come out in support of these senior design projects and learn more about what is going on at Florida Tech. I look forward to seeing you there.

Best Regards,

J.D. VanGilder
Canaveral Section Chair

Schedule of Upcoming Section Events

<u>Date</u>	<u>Event</u>	<u>Location</u>	<u>RSVP Date</u>	<u>Contact</u>
April 13 th	Student Design Showcase Florida Tech's Clemente Center http://coe.fit.edu/showcase.html	Florida Institute of Technology	April 6 th	Stephanie Hopper shopper@fit.edu 321-674-7349
April 18 th	Student Design Presentation Dinner Social at 6:30PM Dinner at 7:00PM Presentations start at 7:30PM Event Cost: \$20 for members and faculty	Florida Institute of Technology Board Room in the Denius Student Center	April 11 th	J.D. VanGilder vangilderj2@asme.org 321-729-2678

***Senior Design Project Presentation Dinner at
Florida Institute of Technology***



The Senior Design Presentation Dinner will consist of detailed design presentations by three design teams. The REV (Racing Electric Vehicle) team, the SAE Formula Car team, the, and the SAE Mini Baja team will present their designs to the audience, discuss their design parameters, and answer any questions about the project and what they have learned during the process. The evening will start with a social beginning at 6:30PM in the Board Room on the first floor of the Denius Student Center which is on the North East side of the building, followed by a buffet style dinner beginning at 7:00PM. The presentations will begin at 7:30PM and run until 9:00PM. Please come out in support of these senior design projects and learn more about what is going on at Florida Tech. I look forward to seeing you there.

Event Price:

Canaveral Section Member ~ \$20 Student Section Member ~ \$5

Dinner: Italian Trattoria Buffet with Spaghetti with Meat Sauce, Pasta Della Rocca, Chef's Choice Hot Vegetable, Caesar Salad and Italian Rum Cake.
Coffee and Hot Tea Service with dessert.

Date/Time: Wednesday April 18 / 6:30 PM – 9:00PM

Location: The Board Room on the first floor of the Denius Student Center on the North East side of the building

RSVP by April 11th ~ Contact J.D. VanGilder (321) 729-2678 vangilderj2@asme.org



From I-95 take 192 East to Babcock Street (507). Turn right (South) onto Babcock and follow it to University Boulevard. Turn right (West) onto University Boulevard and follow it to Country Club Road. Turn right (North) onto Country Club road and follow it to the second entrance to the parking lot on the left hand side of the road. Park in the area noted by the blue star and walk from there to the Denius Student Center. The Hartley room is on the second floor at the North end of the building.



Directions to the Denius Student Center at Florida Tech.

Local Shows, Conferences, and Judging Opportunities

Fluid Power Conference and Expo 2007:

The 3rd annual Fluid Power Conference and Expo will be held in Tampa, Florida on May 15-16 at the Grand Hyatt Tampa Bay Hotel. The expo is presented by Hydraulics and Pneumatics magazine. Hours are 8-4 on Tuesday and 9-4 on Wednesday. The cost is \$49 for 1 day or \$95 for 2 days. Register online at www.fluidpowerexpo.com.

Orlando Manufacturing Show:

The American Contract Manufacturer's Show (AMCON) will be held in Orlando on April 11-12 at the Orange County Convention Center. Hours are 9-4 on Wednesday and 9-3 on Thursday. Admission is free. More information can be found at www.amconshows.com or 800 829-7467.

Volunteer Judging in Orlando:

The Florida Technology Student Association (TSA) is a non-profit organization devoted to promoting technology among middle and high school students. Over 120 judges are needed to cover 60 technology events at the next annual Florida TSA State Conference and Competition, held at the International Plaza Resort on April 18-21 in Orlando. Judging forms can be found at <http://floridatsa.com/07ConferencePackage/packageIndex.html>.

ASME General

New ASME Press books look at manufacturing engineering, cost-driven design:

Manufacturing Engineering: Principles for Optimization: This new 536-page third edition has added information on project management, time standards, personnel appraisal, lean manufacturing, and expanded coverage of probability and statistics. The cost is \$99.

Cost-Efficient Design: The 600-page book discusses cost-related factors in the design process that have an impact on product development, and offers proven methods for understanding, influencing, and reducing product costs. The cost is \$104.

Planned gift from Mary Evans Stowell Thompson to benefit students:

Mary Evans Stowell Thompson left the ASME Foundation one of the largest gifts it has received to date in order to establish a scholarship fund in her husband's name to benefit mechanical engineering students.

The ASME Foundation was saddened to learn about the passing of Mrs. Thompson on Dec. 22, 2006. She was the widow of Willis F. Thompson, who at his death was chairman of the board of Westcott & Mapes, a prestigious engineering firm in New Haven, Conn. Mr. Thompson, an ASME Fellow and Honorary Member, was instrumental in the conception and development of the United Engineering Center at the United Nations Plaza on East 47th Street in New York City, the former home of ASME. Mrs. Thompson's bequest was for an initial sum of \$300,000. Her generous legacy will live on as an endowment and will benefit young engineers of the future in perpetuity as they pursue their educations in engineering.

Canaveral Section ASME Sponsorship

The Canaveral Section uses sponsorships to support section activities such as providing distinguished lecturers, professional development events, and monthly meeting costs, as well as student section scholarships, design competition sponsorships, and activities. The sponsorship notice will be supplied with each newsletter containing a sponsor's business and contact information on a standard business card size listing. The listing will run for a duration of one year for a donation of \$200. Please provide Company Name, Contact, Phone, Date, and Email information via email or mail to the following addresses. A business card or jpg image of your company logo will be needed.

ASME Canaveral Section P.O. Box 540171
Merritt Island, FL 32954

or

J.D. Van Gilder at vangilderj2@asme.org

Local News

Contract Awarded

Harris has announced it has been awarded a contract for an undisclosed sum from Alcatel Alenia Space to supply a 12-meter commercial satellite antenna for the first European satellite infrastructure designed for broadcasting video, radio and data to mobile devices and vehicle receivers. The satellite antenna, to be manufactured in Palm Bay, will be used to broadcast in France, Germany, Italy, Poland, Spain and the United Kingdom. The satellite on which the antenna will be deployed is expected to be in orbit in 2009.

Upcoming contracts

A consortium of three companies -- called Team Ares -- invited 75 small businesses to the Hilton Cocoa Beach Oceanfront on March 14th and asked them to make quick pitches on why they should be involved in efforts to build NASA's Ares 1 upper-stage rocket. Team Ares is made up of Alliant Techsystems, Lockheed Martin and Pratt & Whitney Rocketdyne. At stake is a contract likely worth billions of dollars over several years. Team Ares representatives said space officials want 17.3 percent of the contract work to go small-business contractors. Team Ares is competing against The Boeing Co. for the contract.

In September, NASA is expected to award the contract for the upper-stage rocket. The rocket will be used to help launch the Orion Crew Exploration Vehicle, successor to the space shuttle. The Orion spacecraft scheduled for flight by 2014.

Thanks to our sponsors!

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