

**Executive Committee Chair**

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**Executive Committee**

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Dan Johnson

**Treasurer**

John Van Gilder

**Secretary**

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John Van Gilder

**FIT Student Section Chair**

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**Membership Development**

Leanna Konowicz

**Government Relations**

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Stephanie Hopper

**Newsletter Editor**

~ Open Position ~

**FSEC Representative  
& WEB Master**

Dave Chasar

*Message from the Chair...*

## Kicking Off Program Year 2005-2006

Greetings and welcome to the 2005-2006 Canaveral Section Program Year! We have had a relatively busy summer that included the transition of the Chair, development of our schedule of events for this program year and our Section's support of the annual Exemplary Science Teacher Awards Dinner.

I would first like to thank all the returning Executive Committee members for their hard work and dedication over the past year. Especially, thanks to Dan Johnson, Past Chair (and the guy I'm going to lean on for a few weeks more until I am fully up to speed). As the new Chair I look forward to meeting more of our section members and welcoming aboard new members.

The Executive Committee met twice this summer and discussed some new initiatives that are intended to increase the support we provide to our members and to provide opportunities for greater interaction among members. We are developing a sponsorship program that will recognize persons and organizations that sponsor our Section activities by placing a notification in our newsletter. For reasons we won't bore you with, we can't call the business card looking notifications advertisements, however it would be a great way to publicize support of our society and section. Inside this newsletter you will find more detail on this new opportunity. We plan to use the sponsorship proceeds to offset professional development costs, to support Section activities and to increase the support we can provide to the FIT Student Section.

Professional interaction is accomplished through our Program of Events which consists of periodic presentations and formal events such as the ASME Canaveral Awards Dinner (tentatively planned for January 26, 2006) and the E-Week Banquette (February 2006 CCTS Event). Inside this newsletter you will find the event listing for Program Year 2005-2006. Part of what we would like to accomplish this year is to increase the opportunities for your participation by increasing the number and locations of events; as well as the diversity of subject matter. We exploring an event in the spring that will feature some of our members that work in lesser known local organizations; more to follow in future newsletters.

Please consider this and every newsletter to be a formal request for your presence at all of our activities. As technical and management professionals it is in our interest to expand our network and to refresh or improve our knowledge. Interacting with other local professionals that have various experiences and responsibilities allows us to gain perspective and to perhaps look at challenges from a different angle. The Canaveral Section members have a great deal to offer each other. So we encourage you to make a commitment to attend three or more events this year.

Tom Moriarty, PE, CMRP  
Executive Committee Chair  
Canaveral Section

## 2005 Exemplary Science Teachers Awards

Our section was a Gold Sponsor at the Annual Space Coast Science Education Alliance, Exemplary Teacher Awards dinner. The event was held at the Astronaut Memorial Planetarium & Observatory at Brevard Community College, Cocoa, FL.

The Space Coast Science Education Alliance (SCSEA) was organized by the Florida Solar Energy Center and is in affiliation with education, science and environmental organizations throughout the Space Coast region. The SCSEA promotes science literacy through joint activities and support of alliance member projects. In 1999 the SCSEA initiated the Exemplary Science Teacher Award to honor the efforts of eight teachers from Brevard County who demonstrate best practices in the area of science instruction and to encourage them to remain in the teaching profession.

Our Society was represented by Tom Moriarty, Hugh Bain, Alan Zakaluk and Jim Phillips. A key note address was provided by Dr. Richard DiPatri, Ed.D., Superintendent of Brevard Public Schools. During his speech, Dr. DiPatri cataloged the impressive history of Brevard students that have competed in the State Science Fair program. Section members should take pride in our support of the Brevard Public Schools and in the accomplishments of our community's teachers and children.

The teachers recognized at this years awards dinner were:

Robert H. Champaigne, Imperial Estates Elementary  
Ryan Cilsick, Edgewood Junior/Senior High School  
Jane A. Hodges, Ph.D., Endeavour Elementary School  
Carolynn S. Howell, Palm Bay High School \*  
Raul Montes, Cocoa High School  
Lisa Naujock, Stone Middle School  
Katherine Nelson, Saturn Elementary  
Guytri B. Still, McNair Magnet School\*  
Betty Walden, Merritt Island High School

\* These two teachers are in the Exemplary Science Teachers Hall of Fame

## 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](mailto:jvangild@harris.com).

## Treasure Coast S.E.A.

Meetings are typically 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 [southmoon@bellsouth.net](mailto:southmoon@bellsouth.net).

## Links to Useful Websites

**ASME Canaveral Section:**

**Southern Field Office:**

**Region XI Home Page:**

**ASME International Home Page:**

**Canaveral Council of Technical Societies (CCTS):**

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

<http://www.asme.org/regions/sro/>

<http://regions.asme.org/regionxi/>

<http://www.asme.org/>

<http://www.canaveralcts.org/>

# Schedule of Upcoming Events

This fall we are offering more events than in the past. We are doing this to increase the opportunities for our members to attend events and to interact with other section members. ASME events are great opportunities to network and develop professional relationships with other area engineers. More events in various venues that should make the events more available for busy schedules. Our events are informal and we typically have food and soft drinks. So we hope if you haven't attended events in the past you will consider making a personal commitment to join us for two or three events this year. The more we interact, the more we can get out of our affiliation with the Society and Section. See you there!

## Fall Schedule of Events

### September 15, 2005 **Solid Rocket Booster Retrieval & Disassembly**

Presentation by Manual De Leon from United Space Alliance; Video and Discussion. A great opportunity to learn about what happens to the SRBs after they come back to Earth.

Place & Time: Florida Solar Energy Center, 6:30 pm

### September 21, 2005 **GE Locomotive**

Presentation on the mission and projects performed at the Melbourne facility

Place & Time: GE Melbourne Facility, 6:30 pm

### October 5, 2005 **Indian River Lagoon Salinity Study**

St. Johns River Management District is investigating alternatives to providing fresh water supplies including desalination. A presentation by Glenn Forrest, Project Manager discusses the overview and ongoing regional water supply planning efforts.

Place & Time: TBD

### October 20, 2005 **US Coast Guard Cutter CONFIDENCE Tour**

Presentation by LT JJ Bates, Engineer Officer on the cutters general missions, maintenance program and a tour of the engineering spaces. A rare opportunity; limited to 20 persons, so register for this one early by (Email: [tjmpe@alidade-mer.com](mailto:tjmpe@alidade-mer.com)). A cut off date for signing up is October 6th. US citizenship and picture identification required.

Place & Time: USCG Moorings, Port Canaveral, 6:30 pm.

### November 2, 2005 **Rockwell Collins Tour**

The Melbourne facility is currently developing avionics packages for the Boeing 787 Dreamliner as well as a number of other platforms. This will be a presentation and plant tour of the electronics fabrication facilities.

Place & Time: Rockwell Collins Melbourne Facility, 6:30 pm

### November 17, 2005 **Structural Composites, Inc.**

Presentation by Ron Reichard, a recognized leader in composite design and fabrication, will discuss general properties and developments in the world of composites. SCI has projects with government, commercial industry and even amusement parks. A great chance to learn something new.

Place & Time: TDB

### December 14, 2005 **Turnkey Engineering Group**

Presentation and demonstration of 3-D printing capabilities.

Place & Time: Turnkey Engineering Group offices, Melbourne, FL, 6:30 pm

## Section News

### Sponsorship Program

Recent changes resulting from the Continuity & Change initiative have caused the Executive Committee to examine ways to become more self-sufficient in funding our activities. Our objectives are to increase the funding available to support Distinguished Lecturers (ASME or others), to support Professional Development Courses and to increase the Section's support of our ASME Student Section at FIT. As mentioned on the front page of this newsletter, the Canaveral Section has been studying the issues involved with getting advertisements/sponsorships from local businesses and organizations. As a non-profit organization we have restrictions on accepting advertisements; which relates mainly to our ability to send bulk mailings at reduced rates. As such we are allowed to accept sponsorships in the form of donations to the Section. In appreciation for the sponsorship, we will provide recognition to the sponsor or sponsor organization in the form of a business card sized notice in our newsletter. J.D. Van Gilder is our Treasurer and coordinator for this effort. The sponsorship rate is \$200 for a full year of newsletter recognition. We ask that all of our members consider a sponsorship of our section or consider approaching their employer for this worthy cause. If you know of a willing sponsor please have them contact J.D. at [vangilderj2@asme.org](mailto:vangilderj2@asme.org).

### Spring Calendar of Events

There are three events that are planned for every year. These include the Annual Canaveral Section ASME Awards Dinner in January, the Engineers Week CCTS Annual Dinner in February and the Student Section Senior Design Presentations. In addition we are considering having a local industry spotlight event focused on small engineering service providers. The Executive Committee is asking interested parties to contact a Committee member to provide your input. The event will likely be towards the end of our event program year in April or May time frame.

### Mentoring Program

The Executive Committee is interested to hear from you on your interest in mentoring Student Section members and/or young engineers. The idea would be for the mentor to be available by phone to discuss issues related to leadership & management or technical issues. It's a great way to give back for those of us who have benefited from our experience.

### Volunteers Needed

From time to time opportunities come along. Now is such a time for the Canaveral Section. I would personally appreciate a member (including Student Section) stepping forward to help with becoming the Newsletter editor. It will likely take three or four hours a month. Capability to use spell-check and correct the Committee Chair's grammatical structures a must! As we roll out our sponsorship program we will likely need someone with an interest in graphical design or perhaps a local print shop that would like to exchange services for sponsorship recognition to help us get the ball rolling. Contact me if you are interested: [tjmpe@alidade-mer.com](mailto:tjmpe@alidade-mer.com) or (321) 773-3356. Thank you.

## ASME THE 2005 CONGRESS IS SET FOR ORLANDO

The one event for all engineers, the 2005 ASME International Mechanical Engineering Congress and Exposition, will be held Nov. 5-11 at the Walt Disney Swan and Dolphin in Orlando. The Congress will feature a broad range and multidisciplinary technical programs, industry track session and a world-class exposition showcasing the newest designs, innovations and technological advancements in engineering. The Congress is a premier forum for presentations, technical exchange and networking. The keynote speaker will be Col. Mike Mullane, NASA Shuttle Astronaut and Novelist.

For more details visit the Congress Web site at <http://www.asmeconferences.org/Congress05/>

## Mechanical Engineering Salary Survey

A recent survey of income in mechanical engineering was sponsored by the American Society of Mechanical Engineers. "Compensation in Mechanical Engineering, 4th Edition - 2005" has just been published. Brief articles, based on this survey report and findpay, will appear in ASME periodicals.

This unique, 572-page publication and findpay reports the base salaries, other cash compensation, and total cash compensation of 8,999 members of ASME.

Nationwide, the median income of survey participants is \$88,000, with 10% making under \$55,000 and 10% making over \$139,731. The median income of some of the 39 benchmark jobs investigated were:

Chief Marketing & Sales Executive	\$155,000
"Distinguished" Researcher ...	\$141,000
Professor (11-12 mo. appt.) ...	\$135,000
Research Director/Vice President ...	\$133,716
Consulting Branch Manager ...	\$126,000
College/University Dept. Heads (11-12 mo. appt.) ...	\$125,500
Engineering Director/Vice President ...	\$119,100
Principal Consultant ...	\$112,000
Environmental Manager ...	\$111,000
Project Manager ...	\$100,000
Senior Engineer ...	\$87,000
Sales Representative ...	\$76,250
Intermediate Researcher ...	\$68,490
Project Engineer ...	\$65,430
Junior Engineer ...	\$52,000
College Instructor (11-12 mo. appt.) ....	\$50,500

You can review a limited demonstration version of the findpay program with all the data from the last survey by visiting:

<http://www.abbott-langer.com/download/?asme05p>

Welcome Aboard!

Please join me in welcoming Mike Farnsworth of Classic Controls, Inc. as our newest Canaveral Section member



**AMERICAN SOCIETY  
OF MECHANICAL  
ENGINEERS**

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