



The Canaveral Flyer

A Newsletter of the Canaveral Section of ASME International

VOLUME XLVII, ISSUE 1

JULY, 2004

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

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Message from the Chair...

2004 Program Year Over, But Not Forgotten!

Wow, what a Program Year this has been! A lot of variety, a lot of learning, a lot of tours, and most of all a lot of fun! See the article on the following page for a synopsis of all of our activities and accomplishments for this past year as we look back in reflection.

What's in our future as a section you undoubtedly are asking?

To begin with we plan on having more of the same type of quality guest speakers you have enjoyed interacting with over the past years from both the local and national stage. We will once again be working Florida and West Coast sections to share Distinguished Lecturers. For you who don't know, the ASME Distinguished Lecturer Program is fully funded by ASME International and allows each section to bring in a national speaker. By working with our neighboring sections we can bring in several of these speakers in one year by sharing the resource. We will also bring you local speakers to talk about a variety of interesting and timely topics.

Tours are also on the agenda because they are always well attended and a big hit with you, the membership. Local industry tours give us an opportunity to find out what is going on in our own backyard in regards to cutting edge niche or larger product/service providers. Our section is home to several large and not so large companies that make a difference on a global basis.

We will be offering Professional Development courses as well this year to help those of you with your Professional Engineer license to help keep that active as well as providing career enhancement opportunities.

We are working to host an Industry Breakfast this fall where we present to local industry leaders what Professional Societies like ASME can provide for them nationally and here on a local level.

See our Program Calendar insert for the upcoming year to get more specific information of what's coming up. The items highlighted are confirmed. The ones with topics, locations, or dates listed but not highlighted are partially confirmed and waiting to be finalized. The ones that say TBD, well you probably already figured that one out. As things become finalized we will update the calendar and send out updates for you to have handy to remind you of upcoming speakers or tour events.

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

2004 Program Year in Review

In August we helped recognize local teachers at the Annual Exemplary Science Teachers Awards Dinner after being named **Best Large Section in ASME for the fourth year in a row** at the PLS meeting in Tallahassee!

September brought us one of our most well attended events of all time when we went to the USA NSLD Complex for a tour organized by **Stephanie Hopper**. We had over 60 people in attendance, some traveling all the way up from Florida Atlantic University to take part.

During the month of October we held a mini-topic meeting at Florida Tech and had three fine speakers. First we had Ginger Davis from Brevard County schools talked to us about how we can help local students excel in science and math. Next, Jim Johnson talked about what Canaveral Council of Technical Societies (CCTS) does for its member organizations like ASME. Finally, **Will Judd** told us about the Columbia Shuttle Recovery effort in Texas.

In November we had our first Distinguished Lecturer (DL) of the year, Karen Warden, who spoke on Orthopedic Engineering. **Stephanie Hopper** was presented a national award for her work with women and minorities. On the lighter side, later that month **Tal & Nina Webb** hosted a cookout at their home. To wrap things up a joint trip to Fantasy of Flight was taken with the Florida Section to help celebrate the 100 year anniversary of flight.

We took it easy in December with a small outing to the Henegar Center in Melbourne to see a play to help launch us into the holiday season.

In January things heated back up again with a Mather's Bridge Tour set up by **Will Judd** that was very well attended followed by our Annual Award's banquet. At the banquet we recognized 10 of our members for 25 or more years of being involved. Our guest speaker for the evening was Carol Ann Garratt who spoke about her solo flight around the world and some of her adventures along the way.

February brought us our two Elevator related Professional Development Courses organized by **Scott Seigel** that were well attended and help bring in revenue for our section. Through the effort of **Stephanie Hopper**, E-Week presented opportunities for 20 of us to go out and speak about Engineering at the local schools and help guide the career choices of our next generation of engineers. We capped off the month by playing a key role in organizing the CCTS E-Week banquet through the dedication and leadership of **Tal Webb**. **Alan Zakaluk** brought in the keynote speaker Dr. Adams to speak about the flight dynamics of golf balls which was educational and entertaining.

March came in like a lamb this year with not much on ASME's plate but we made up for it in April with our annual joint dinner at Florida Tech. This annual event gives the students a chance to network with local engineers and present their senior design projects to boot. This year we learned about the formula car, SERRA (supersonic rocket project), and VERTIGO (a UAV type plane) projects. Engineering is alive and well at Florida Tech and thanks to the student section and **JD Van Gilder** for setting up the event!

May was quiet as well as we put our focus on setting up a tour of the Air Force Missile Museum at Cape Canaveral but unfortunately had to scrub the event due to a launch that was going to be taking place at the same time. **Jack Wiles** is feverishly working to reschedule for the fall and hope to have better luck.

It was a great year and thanks to all of you who came out to support the section by taking part in these events. The upcoming year promises to be even more exciting and we hope to see you out at the events!

Dan Johnson

Office Elections for the 2005 Program Year

Thanks for taking part in the officer elections for the upcoming Program Year. Your officers will be...

Chair: **Dan Johnson**
Vice Chair: **Paul Burke**
Treasurer: **Ken Cook**
Secretary: **Will Judd**

There are other opportunities for you to take a role in helping our organization to stay vibrant and keep growing. It can be helping to organize an event, help contact members, tell us about potential guest speakers or tour locations, help out with an Industry or Professional Development event, help with our newsletter or WebPages. Even by just coming out to an event you are taking part in keeping us strong.

Contact one of us today to tell us how you want to become more involved. Thanks for your continued support and let's bring on the 2005 Program Year!

Dan Johnson

August 2004 – Take a walk on the Wild Side!

We are going to kick off our program year in August this year with a roar! Join us as we venture off to Africa, Latin America, and Australia without leaving the confines of Florida's Space Coast. That's right, we are off to Brevard Zoo for a afternoon of fun where some of us will have the opportunity to get a behind the scenes tour in the Africa section. You will get to interact with the Giraffe's and Rhino's while learning from the handlers themselves about what makes these animals tick.

The event will take place on Sunday, August 15 starting at 12:00 noon. The first 10 people who sign up will get to go on the "Wild Side" tour starting at 1:00pm. The rest of us will get to do some interacting with the other animals in the park, or ride the train, or perhaps some kayaking.

The cost will be \$7.00 for adults, \$6.00 for seniors, and \$4.50 for kids to get you in the door. The "Wild Side" tour is \$10.00 extra and the Zoo recommends that if kids go that they be 6 or older as the younger ones may not enjoy it.

Contact **Leanna Konowicz** at KONOWILC@usa-spaceops.com to sign up and reserve your place on the "Wild Side" tour today, remember it is first come first serve for that portion. Don't miss out on this opportunity to run wild at the Zoo! For more information about Brevard Zoo itself, please visit www.brevardzoo.org.

Dan Johnson

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

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.

Thumbnail Bio

We want to take a minute to correct an omission from the last newsletter in it's article about **Bob Bosnak**. We failed to mention that **Bob's** most prized honor and the one he is most proud of all those he earned over the years is the ASME Codes and Standards Medal, recently re-named the Melvin R. Green Medal. This was to honor Mel Green who, for many, many years was the Associate Executive Director of ASME's Codes and Standards. **Bob's** success in getting a number of government agencies to use consensus standards, like ASME's Code and Standards, instead of each agency making up its own standards, was something that has saved literally billions of taxpayers' dollars.

This month's bio is about our member **Paul Burke** who was recently voted in as Section Vice Chairman. Although he lives in Englewood on Florida's west coast, **Paul** is a faithful attendee at both the Section's all-member meetings and the Executive Committee meetings.

Paul has good reason to come here frequently, as Key Account Executive for Sealey Instrument Company based out of Atlanta, Paul is able to call his own shots with Lockheed, The Boeing Company, and Kennedy Space Center among his major customers.

A 1980 graduate of Clarkson University in Potsdam, NY, with a major in Industrial Engineering, a minor in Chemical Engineering, and winner of the Presidential Scholar Award, **Paul's** first employer was Mechanical Technology in Latham, NY. The Company manufactured shock and vibration test equipment used by many aviation and aerospace equipment manufacturers. Named a Sales Engineer, **Paul** showed above average sales aptitude.

This sales ability led to his joining Caramaseal, New Lebanon Center, NY, as a Sales Engineer responsible for an 11-state territory for metal-to-ceramic seal manufacturing equipment.

With a very successful sales record, **Paul** came to Florida - Englewood, to be exact - to join Insulator Seal, Inc. responsible for worldwide sales, marketing, and new product development for this Company's ceramic-to-metal seal technology.

In another upward career move, **Paul** joined the Kurt J. Lesker Co. in Clairton, PA, a major manufacturer of vacuum equipment used in a variety of industrial manufacturing and research operations - leak detection and various coating operations for example. In this position Paul was responsible for major regional sales activities for eight years working out of the Florida office.

Paul finally later joined A&N Corporation in Williston, FL, a major producer of vacuum hardware where he served as International Sales Manager!

Finally, with a distinguished sales career behind him, **Paul** decided to become his own boss - a Manufacturer's Representative working out of his own home in Englewood. The company he represents is the Sealey Instrument Company headquartered in Atlanta, GA. They offer a broad range of industrial vacuum equipment used for a variety of purposes; for example monitoring certain parts of the Shuttle's systems for the last critical moments up to launch.

Paul and his wife, Heidi, have two children. Derrill, owns his own Company in New York State doing heating and plumbing, while Josie, is a teacher in Germany. Somehow, along the way, **Paul** found time to become a licensed Private Pilot with the really tough-to-get Instrument Rating. Maybe one of these days he'll be commuting over here in his plane rather than doing it the hard way, by car.

Jack Wiles

September 2004 – Me, run my own business?

Have you ever thought about starting your own business in engineering? Could I provide a service, a product, or perhaps integrate and deliver systems? Well here is a chance to find out if you have what it takes to make that next step in your career and become the next Bill Gates. Join us as we present Daniel T. Koenig who will be speaking on “The Engineer Entrepreneur”.

This practical guide explains how to use your engineering know-how to satisfy customer needs. Providing entrepreneurs with a road map to success. It assists you in...

- Evaluating your skills
- Deciding whether to take the plunge
- Launching your own small business
- Bringing a new product or service to market
- Growing an enterprise
- Creating a sustainable company

The Engineer Entrepreneur delivers tutorials on key subjects that are not part of the engineering curriculum, including project management, team skills, communications, product development, financial management, e-commerce techniques, business-plan development, and the elements of world-class performance.

It defines the traits and prerequisites for success, illustrating theory with pragmatic, how-to scenarios. It provides many checklist summaries to guide successful startups and to promote continued growth of businesses based on technology.

While addressing potential and current entrepreneurs, the book provides all engineers with a thought-provoking perspective that increases their value in business settings.

We will be meeting at Florida Solar Energy Center in Cocoa on Wednesday, September 22 at 6:30pm for barbecue, followed by Mr. Koenig's presentation at 7:15pm. Cost will be \$10 for members and \$5 for students to cover the cost of dinner. Mark your calendar and sign up today with **Dan Johnson** at djohns08@harris.com or by phone at 321-729-3686.

October 2004 – First Distinguished Lecturer of the Program Year!

Have you an interest in virtual product development and the design tools used to create them? Well our October meeting is the one for you. We are proud to be able to bring in to talk to our section Dr. Rhode, an ASME Distinguished Lecturer.

The multimedia lecture traces the evolution of math based design and engineering in the automotive industry, and the benefits of that approach. We will have more information on this event as it draws closer.

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

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/>

Engineering Salary Survey

By completing an online questionnaire, you can help ASME create a tool to assist you and your colleagues with important career decisions. You can also win an HP Handheld PDA or other valuable prizes.

ASME is conducting an in-depth salary survey among mechanical engineers. By accessing the survey form and answering all questions, you will ensure accurate results and enter a sweepstakes to win useful resources for engineers.

For full details and the survey questionnaire, please visit:

<http://www.paysurvey.com/ASME2004/?ASME>

2005 ASME Arthur L. Williston Award Contest

The General Awards Committee is pleased to invite mechanical engineering students and recent graduates to participate in a contest which is a rewarding educational experience.

The 2005 Arthur L. Williston Award Contest encourages young mechanical engineers to apply their knowledge by writing a paper dealing with the problems and solutions of current topics in the area of civic service. This year's subject is "Engineering and the Public Disaster." In view of the exceptional quality of the entries, the award was expanded in 1987 to include the presentation of second and third prizes. The first prize winner will receive a certificate, bronze medal, \$1000 honorarium, and travel expense supplement to attend the International Mechanical Engineering Congress. The second prize winner will receive a \$500 honorarium and certificate, and the third prize winner will receive a \$250 honorarium and certificate. The participant's time will be well spent in preparing an entry which awards valuable prizes and professional recognition to the winner.

The General Awards Committee, which has the responsibility for the Arthur L. Williston Award Contest hopes that as Student Section Chairs you will encourage your fellow students to enter the competition. Any help you give in promoting this project will be greatly appreciated by the Committee.

The attached two sided flyer describes the contest in detail. To assure that the paper addresses the topic and complies with the contest rules, you will note that each entry requires an ASME corporate member as a sponsor.

We look forward to receiving papers from you and other members of your Student Section. All entries must be postmarked no later than February 15, 2005.

For more information you can contact Dr. J. Gilbert Hwang, Chair ASME General Awards Committee at (408) 925-1253.

ASME Online Membership Directory

In response to an overwhelming number of requests from members asking for new tools to use in networking with other members, we're happy to introduce the new ASME Online Membership Directory. This new online directory can only be accessed by members behind Members Only and will be limited to 5 searches and 20 results per day.

To be included in the online directory, ASME requires members to opt in. If we do not hear from you, it will be taken as an "opt-out" response and you will not be included in the online directory.

Please click on the link below if you choose to be included in the ASME online directory and select what information you wish to be published.

<https://members.asme.org/myasme/membershipsearch/index.cfm>

Brain Teaser

Congratulations to **Allan Torsney**, **Jim Elmore**, and **David Wadzinski** for getting last months brain teaser correct. If you had trouble with it, here's the solution below.

Solution:

Let

- x denote the number of days we jogged in the morning and stayed at home in the evening;
- y denote the number of days we played tennis in the evening and did nothing in the morning; and
- z denote the number of days we neither jogged nor played tennis.

Then,

$$y + z = \text{number of mornings we did nothing} = 18$$

$$x + z = \text{number of evenings we stayed at home} = 15$$

$$x + y = \text{number of days we jogged or played tennis} = 17$$

Adding the above three equations and dividing both sides by 2 gives

$$x + y + z = 25$$

Since there are only three types of days, the total number of days I stayed with my cousin is their sum, i.e., 25.

That brings us to the end of our brain teaser questions for this Program year. It was a lot of fun finding the questions each month and we hope you enjoyed it. We will bring it back starting in the September issue of the newsletter. As promised, we will be giving out an award to the person who got the most correct answers for the brain teaser and it turned out to be neck and neck right down to the end. Out of the folks who submitted correct answers over the 9 newsletters sent out, here are the results.

<u>Place</u>	<u>Name</u>	<u>Number Correct</u>
First	Allan Torsney	7
Second	Jim Elmore	6
Third	David Wadzinski	3
Fourth	Bill Imre	2
Fourth	William Couch	2
Sixth	Jim Summerlin	1
Sixth	JD Van Gilder	1

Congratulations to **Allan!** He will receive a \$40 gift certificate to a Darden Restaurant (Olive Garden, Red Lobster, or Smokey Bones)

Board on Diversity and Outreach 2004-05 Internships

The Board on Diversity and Outreach (BDO) is requesting your assistance in promoting its Minority Leadership Program, an internship program designed to increase the participation of women and underrepresented minority members on ASME boards and committees through mentoring and leadership development.

ASME members may participate in the Minority Leadership Program in one of two ways. Members can apply for one of five one-year internships, during which they are matched with a mentor and ASME operating board or committee. More experienced members may request a recommendation for a direct placement on an operating board or committee.

The BDO is currently soliciting applicants for the 2004-05 internships, which will commence in the fall of 2004. I would encourage you to assist us by identifying candidates. Please note that the application deadline is July 15, 2004. The application form is available on-line at

<http://www.asme.org/communities/diversities/bdo/minorityleadership.html>



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> Date: Aug 15 Location: Viera POC: Leanna Konowicz (KONOWILC@usa-spaceops.com)	Speaker: Dan Koenig on Engineer Entrepreneur Date: Sep 22 Location: FSEC POC: Dan Johnson (djohns08@harris.com)	<i>Tour: AF Missile Museum</i> Date: Oct 9 Location: Cape Canaveral POC: Jack Wiles (jwiles@webtv.net)

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>
Speaker: Tal Webb on History of Space Program Date: TBD Location: TBD POC: TBD	<i>Tour: Ice Skating Rink (Joint event with FIT Student Section)</i> Date: Dec 9 Location: Rockledge POC: JD Van Gilder (jvangild@harris.com)	Award's Banquet; Speaker: TBD Date: Jan 12 Location: Hotel in Melbourne/ Cocoa Beach POC: TBD	CCTS E-Week Banquet with DL Speaker Frank Creet on Nanotechnology (Joint Effort w/ Florida Section) Date: Feb 18 Location: Hotel in Cocoa Beach POC: Alan Zakaluk (azakaluk@harris.com)

ASME Industry Event at Sun-tree CC w/ Guest Speaker Burt Dicht (??)

 Date: TBD
 Location: North Melbourne

 POC: Paul Burke & Scott Seigel

Tour: Mather's Bridge

 Date: Jan 22
 Location: Indian Harbor Beach

 POC: Will Judd
 (WEJudd@xch-bsco-06.ksc.nasa.gov)

E-Week Speakers

 Date: Feb 21-25
 Location: Brevard County Schools
 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 Date: Mar 30 Location: Melbourne POC: JD Van Gilder (jvangild@harris.com)	<i>Tour: NSLD</i> Date: TBD Location: Cape Canaveral POC: Stephanie Hopper (STHopper@xch-bsco-06.ksc.nasa.gov)	DL Speaker (Joint Effort with Florida West Coast Section) Date: TBD Location: TBD POC: Alan Zakaluk (azakaluk@harris.com)	Speaker/Tour: TBD Date: Jun TBD Location: TBD POC: TBD

Mini-Topic Evening: Hugh Bain's experience in Iraq, Ken Cook's experience in China, & TBD

 Date: TBD
 Location: TBD
 POC: TBD

Legend:
Indicates Status Confirmed