



The Canaveral Flyer



A Newsletter of the Canaveral Section of ASME International

VOLUME XLVI, ISSUE 2

OCTOBER, 2003

Executive Committee Chair
Dan Johnson
Work: 321-729-3686
Home: 321-733-5707

Executive Committee
Vice-Chair
Stephanie Hopper

Treasurer
Ken Cook

Secretary
Will Judd

FIT Student Advisor
Dr. Hector Guittierez

FIT Student Section Chair
Joe Clark

Industry Relations
Scott Seigel

Membership Development
Leanna Konowicz

Member Interests
Mark Greby, PE

Minorities & Women
Stephanie Hopper

Newsletter Editor
Dan Johnson

Professional Development
Scott Seigel

FSEC Representative
& WEB Master
Dave Chasar

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

RENEW YOUR MEMBERSHIP TODAY!

Message from the Chair...

Record Attendance Levels Set at Canaveral Section First Events!

We are off to a roaring start and I only expect things to get better! We had our first meeting of the Student section on September 10 at Florida Tech and had 40 students show up. We even got a few new paid members join the ranks that night! Then on the next night we had our first Canaveral Section meeting of the year, a tour of USA's NSLD Complex in Cape Canaveral, and had 66 people show up! If you were one of the people who signed up and did not make it you really missed out on a terrific tour event. If you did not sign up then I bet your kicking yourself now!

This is very exciting for us as your section leadership. We feel that it is a good indication of the excitement you feel about the programs that we are offering this year and the participation we want to attract from you our current members, and hopefully attract more interested parties to come on out and take part. Over the next several months we plan on bringing you a variety of meetings, tours, and social events that will definitely make you sit up and take notice and want to take part in. Check out the Preview of Coming Attractions, see the flyers in the pages to follow, check out our web page, and contact any one of your section leadership to find out more information on upcoming events and how you can get involved.

I look forward to seeing you at our next event in October!

Dan Johnson

Preview of Coming Attractions

Mark your Calendars - 2003 Canaveral Section Events

Date	Event	Location	RSVP Date	Contact	Contact Info
Oct. 22	Mini-Topic Night: Columbia Shuttle Recovery, CCTS, Brevard County K-12 Science Program	Florida Tech Crawford Science Tower, S-112	Oct. 20	Dan	djohns08@harris.com
Nov. 5	Distinguished Lecturer: Orthopedic Engineering	Holmes Hospital, Melbourne	Nov. 3	Alan	azakaluk@harris.com
Nov. 15	Fantasy of Flight Tour	Fantasy of Flight	Nov. 13	Dan	djohns08@harris.com
Upcoming Events					
Nov.	Barbecue	TBA	TBA	Dan	djohns08@harris.com
Dec.	Family Event	TBA	TBA	Dan	djohns08@harris.com
Jan.	Drawbridge Tour/Meet	TBA	TBA	Will	
Feb. 04	E-week event	TBA	TBA	Stephanie	STHopper@xch-bsco-06.ksc.nasa.gov

Please see our web page at <http://www.asme.org/sections/canaveral/index.html> for further information of these and other events coming up soon.

NSLD Tour a Huge Success!

It seems like when you put together something good 'they' will come. We had a tremendous turnout for our first event of the year. We toured the NASA Shuttle Logistic Depot (NSLD) in Cape Canaveral. We made it a joint meeting between our section, IEEE, AIAA, Florida Tech Student Section, Florida Atlantic Student section, and even had a few folks from the West Palm section in attendance.

Stephanie Hopper, our current vice-chair, did a great job in getting to the right people and convincing them to allow a tour of the NASA Shuttle Logistics Depot. A showing of about 66 people came out for a behind the scenes look into the shuttle space program. Guests were shown around the avionics lab where the black boxes containing the nerves of the orbiter are trouble shot. They also got to see the mechanical shop where actuators, brakes, windows and payload structures were on display for onlookers, the machine shop with sample parts that were cut out, and quality control area where our inspection devices are located. In all areas where space shuttle orbiter hardware currently being either tested or repaired for the next round of missions in putting together the International Space Station.

This tour helped greatly in giving all guests, engineers and their family and friends, a better understanding of all the work and skill that goes into maintaining a safe system to launch into the harsh environments of space. Keep a look out for dates and times for future tours if you liked this one or didn't get a chance to participate in this one. We enjoy giving you the opportunity to check out local facilities. If you have any suggestions please contact our programs coordinator, **Faye Tomimbang**.

Leanna Konowicz

Canaveral Section wins Best ASME Section 4 years in a row?

Can you believe it? 4 years consecutive years! Never been done before... and still hasn't been done... yet. The votes are not in and will not be until the Winter Meeting in Washington is concluded.

As you are aware your Canaveral Section earned 4 consecutive years being Best Section in Region XI. (Southeast U.S.) We are up the National Award again. I think they may be tiring of us winning the award so this time I plan to attend the Winter Annual Meeting (WAM) in Washington to make sure we are represented. After all we are known as THE BEST OF THE BEST.

No Section in the history of ASME has maintained the year in and year out successes your Canaveral Section has maintained the past 5 years. Before us, no Section has ever earned the great distinction of three (3) consecutive years so let's make it a bit more difficult with four (4) consecutive years. I think the word is FOURPETE. I do not know who Pete is but I like him. We are still the Super Bowl Champions unless otherwise dethroned.

To continue our reign as World Champions your assistance is requested and needed. Contact **Dan Johnson** (djohns08@harris.com) or myself. You can volunteer at your child's school and be an ASME volunteer at the same time. Get the recognition you deserve!

Scott E. Seigel, C.E.M., Your Industry Relations Leader, 321-757-0486 seigels@asme.org

Stephanie Hopper Wins 2003 DBO Award!

Stephanie Hopper had been nominated and now selected for the 2003 Board on Diversity and Outreach Award. This annual award recognizes an outstanding individual in ASME who has forwarded the BDO mission of making ASME a welcome home for all and encouraged participation of women and minorities in the society. Stephanie in particular is honored for her leadership in our K-12 initiative to introduce younger students to engineering as a career choice as well as her commitment to involving women and under-represented minorities into our section. With this award comes with an all expense paid trip to IMEC 2003 in Washington D.C. this November where the award will be presented. **Congratulations Stephanie!**

Dan Johnson

What's in it for me?

I can say my membership in ASME has helped me in a number of ways; here are several:

- 1) Through volunteer work on Section activities I gained experience that helped me better manage projects at work.
- 2) "Networking" at meetings helped me keep current on "the big picture" at the Cape where I worked.
- 3) Interfacing at ASME dinners became a two-way street for timely information exchange and brought important benefits to activities at the "Cape"; for example:

At one of the ASME dinners, Member Ray Norman and I were at the same table. Ray said he had a serious problem on his time-critical NASA satellite program -- his propellant was out of spec and the manufacturer wouldn't be making another batch for almost six months, long after Ray's planned launch date. The project I was on used the same propellant, MON, and we had just successfully launched without using our backup reserve which was more than enough for Ray's needs! The result of our dinner conversation was that the next morning I got my Project Officer to authorize transfer of our propellant to Ray's project and he was therefore able to launch his satellite on schedule at a tremendous saving to his program and, ultimately, the taxpayers!

Do you think ASME membership is good? I know it is!

Jack Wiles

Treasure Coast SEA

The board of directors of the SEA held two meetings in Vero Beach to schedule activities for the upcoming season. Here is a summary of some actions and discussions.

Kelly Mather was unanimously elected chair of SEA for this year. Other members of the board include: **Maurice Hoyt** (Secretary), **Frank Iaccarino** (Treasurer), **Lee Everett** (Board Member), **Jack Wiles** (ASME Canaveral Section Liaison).

Upcoming meeting topics and schedules were discussed. The results are listed below:

<u>Date</u>	<u>Subject</u>
Oct. 17	Power Blackout in the Northeast
Nov. 21	Solar Energy
Dec. 19	To be determined
Jan. 16	ISRP
Feb. 20	To be determined
Mar. 20	Tour: Harbor Branch Oceanographic Institute. This is tentative only. It is planned to be a joint tour on a Saturday with the Canaveral Section ASME
Apr. 16	To be determined

NOTE: Unless otherwise notified, all meetings will be held on the third Friday of the month at 10:00AM.

The board also requested and received several suggestions from members and guests regarding meeting subjects or tours that they feel would be of general interest. Contact any board member with your suggestions.

The October meeting will be held at the Council on Aging Conference Room, 688 14th St., Vero Beach at 10:00AM. The subject of the recent blackout in the Northeast should be of special interest to anyone involved with electrical power generation as well as consumers. Our speaker will be a knowledgeable person, closely associated with the power generation industry.

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**.

Maurice Hoyt

What's happening at Florida Tech

The student section is off to an exciting start this year. The first general meeting yielded 40 students, the largest turnout I have seen at Florida Tech. I attribute this large turnout to the early coordination of the tour at USA. This tour drew a large percentage of the new members that have joined ASME through the student section at FIT.

The next general meeting at Florida Tech will be a joint meeting with the students and senior section members on October 22nd. The meeting will be a mini-topic meeting and will be held in the Crawford Science Tower, room S-112 starting at 7:00 PM. That's all that is going on at FIT for now. Come out and see us on September 27th.

To get in contact with the Florida Tech Student Section please do not hesitate to contact **JD** at jvangild@harris.com

Thumbnail Bio's

Stephanie Hopper, ASME Canaveral Section Vice Chair, received her BSME from Villanova in 1990. She and her husband, Jeff, moved to Melbourne shortly thereafter. Stephanie works for Boeing as Fluids and Propulsion Project Manager at NASA's Shuttle Logistics Depot in Cape Canaveral. In the past, Stephanie has tutored people in several wide-ranging age groups – from 3rd and 4th grade math to college algebra. Active in ASME ever since her college days, Stephanie, as a representative of the Section has helped local educators through various projects sponsored in conjunction with the Canaveral Council of Technical Societies. Currently, she's working on plans for the 2004 National Engineers' Week activities here in Brevard. Somehow, in her busy career, Stephanie also finds time to indulge herself in her hobby of Needlepoint and Crosstitching.

Jack Wiles

Help Wanted

We always have a place for you to participate in helping organizing an event in as large or small of a role you would like to take on, but in particular right now we could use some help with the following:

- Newsletter Editor
- Brain Teaser Coordinator

Call me today to find out what's involved and how you can participate and help make a difference!

Dan Johnson

Brain Teaser

The brain teaser was a big hit last month with us receiving several replies. Here is the solution to last month's question if you missed it.

Solution:

In one hour, the large inlet pipe fills $1/2$ of the tank; the small inlet pipe fills $1/6$ of the tank; the outlet pipe empties $1/8$ of the tank.

Therefore, the fraction of the tank that will be filled in 1.85 hours = $1.85 [(1/2) + (1/6) - (1/8)] = 1.00$.

Take a look at this month's question below and give it a shot.

A creeper plant is climbing up and around a cylindrical tree trunk in a helical manner. The tree trunk has a height of 525 inches and a circumference of 40 inches. If the creeper covers a vertical distance of 75 inches in one complete twist around the tree trunk, what is the total length of the creeper?

Good luck! Submit your answer to Dan Johnson at dan.johnson@harris.com and he will let you know how you did. At the end of the year we give out a gift certificate to who has received the most correct answers.

2003-2004 ASME Member-Get-A-Member Campaign

Receive a ASME Mug when you recommend 2 or more paid new members during the 2003-2004 Member-Get-A-Member (MGAM) campaign signifying your support of the Mechanical Engineering community. Get an ASME Shirt if you get 3 or more new members.

50% of the new paid members' first year dues will fund scholarships for student members.

ASME will contact your colleagues or friends on your behalf, if you email us their contact information at <mailto:membership@asme.org> now through June 30, 2004. For complete details and to learn more about how to get started visit <http://www.asme.org/membershipdrive>.

Remember, Recruitment is everyone's business!

REMINDER: PPC MODULES ONLINE

As the new academic year begins, here is a reminder to visit and use the ASME Professional Practice Curriculum (PPC): a free, on-line program of study for engineering students and early career engineers that supplements formal college/university engineering curricula by helping prepare users for entry into and early advancement in the engineering profession.

The PPC's modular design is suitable for individual use and/or for incorporation by faculty into engineering courses, or for use by ASME sections.

The following modules are on-line. Engineers, faculty and students are invited to provide review and critiques! Project Management, Product Planning, Product Development, Product Management, Leadership Principles, Leadership Styles & Attributes, Engineering Public Policy ("Policy Gear"), Effective Technical Presentations, Patent Law and Introduction to an Engineering Career

Soon to come, additional modules on:

Intellectual Property (Introduction), Professional Ethics, Writing Winning Proposals and Systems Engineering

To tour, review, and contribute feedback on the modules, visit the PPC website:
<http://www.professionalpractice.asme.org>

ASME continues to seek narrative and multi-media content for the expansion of the PPC. To contribute content or author a module, please contact Marian Heller at <mailto:hellerme@asme.org>

ASME Officer Election Proxy Announcement

All members of ASME received their proxy in early September, with that issue of Mechanical Engineering Magazine. The biographical sketches of the 2004 nominees for Society-wide elective offices will be available on the ASME web site at <http://www.asme.org/nomcomm/proxyballot/> (a hard copy can be obtained from ASME Information Central at 1-800-843-2763 or 1-973-882-1167). The Nominating Committee would like to see an increase in the number of proxies returned.

Society policy requires that the Nominating Committee bring one nominee to the voters for each of the positions of President, at-large members of the Board of Governors and each Vice President. A large vote indicates support for the nominee and their ability to provide the leadership demanded by the constituency. A low vote, on the other hand, denies that officer the enthusiastic support he/she needs and deserves, and indicates an indifference of the membership.

The Sections are ASME's primary link to the members so please return your proxies.



ASME Canaveral Section Presents

Mini-Topic Night @ Florida Tech



When: October 22, 2003

Time: 7:00 PM

Location: Crawford Science Tower
– S112 (Florida Tech, Melbourne)



Topics

“Columbia Shuttle Recovery Effort”

-Will Judd (KSC Boeing)

“Canaveral Council of Technical Societies (CCTS)”

- Mary Sharpe (Chair, CCTS)

*“Brevard County Schools K-12 Science Program and
Local Engineering Involvement”*

-Ginger Davis and Guytri Still (Brevard

County School System Science Department)

Presenters will be available for Questions and Answers!

Questions/Comments/ RSVP to:

Dan Johnson (djohns08@harris.com)



ASME Canaveral Section Distinguished Lecturer

Karen E. Warden: Orthopedic Engineering

Wednesday, November 5, 2003

Time: 6:00 PM

Location: Holmes Regional Hospital
Auditorium (Melbourne, FL)



Who should attend: Medical professionals, Engineers, and anyone with an interest in biomechanics, particularly orthopedic Engineering. Children are welcome.

Karen Warden, ASME Distinguished Lecturer, describes the history of the discipline, the application of mechanical engineering fundamentals to biomechanics, the types of implants and their materials, the role of the engineer and some of the emerging technology. Samples of orthopedic implants are exhibited.

Karen E. Warden is a doctoral candidate at Case Western Reserve University specializing in spinal biomechanics. She has been active in the field for the past ten years in academic, industrial, and consulting capacities, has co-authored numerous peer-reviewed publications and received research and achievement awards.

Cost – Lecture: Free; Pizza/Drinks: \$5.00

RSVP by: November 3, 2003

RSVP to: Alan Zakulak, azakaluk@harris.com



ASME Canaveral/Florida Section Presents

Tour – Fantasy of Flight



When: Saturday – Nov. 15, 2003

Time: 10:30 AM @ Fantasy of Flight (OR 9:00 AM @ J.C. Penney at Florida Mall, Orlando)

Price – \$22.50 /Adult (less for Children & Seniors) (does not include lunch)

This collection of vintage aircraft is located just 45 miles south of Orlando on I-4 at Exit 44.

Attractions: Unlimited simulator flights in Fightertown, a backlot tour at 11:30, a restoration shop tour at 12:45, and the aircraft of the day flyover at 2:30.

Lunch is on your own at the In-Flight cafe.

Bring family and friends for this unique experience to celebrate 100 years of flight!



RSVP by: Friday, Nov. 13, 2003

RSVP to: Dan Johnson, djohns08@harris.com

Limitations

ASME A17.1 Safety Code for Elevators and Escalators
February 2-4, 2004 - Cocoa Beach Hilton
A Professional Development Course offered by
The ASME Canaveral Section to all interested Technicians & Professionals
321-757-0486 * 321-255-1965 fax

Description:

WHAT YOU WILL LEARN From an expert instructor, get a comprehensive review and analysis of the ASME A17.1 Safety Code for Elevators and Escalators. All phases of the industry are discussed: design, construction, installation, operation, maintenance, alteration, inspection, and testing. The course also includes a review of the elevator and escalator requirements under the Americans with Disabilities Act (ADA).

WHO SHOULD ATTEND Manufacturing; modernization; maintenance personnel; architects; design and consulting engineers; state and municipal elevator, electrical and building inspectors; private inspection agencies and insurance industry loss prevention engineers. This course is especially helpful for people planning on taking certification examinations such as the NAESA International, Building Officials and Code Administrators, Southern Building Code Congress International, International Conference of Building Officials, Lift Technologies International and Civil Service exams.

SPECIAL FEATURES Complimentary A17.1 Handbook on Safety Code for Elevators and Escalators. Please bring the ASME A17.1 - 2000 Code with all current supplements.

Short Course Outline: · Elevator Machinery and Equipment Capacity and loading; driving machine, brakes and traction; machinery and sheave beams, supports and foundations; suspension ropes and connections; car frames and platforms; counterweights; guide rails; governors; safeties; buffers; seismic requirements · Hoist way and Elevator Car Construction Hoist way enclosures; building code requirements; machine rooms and machinery spaces; location and guarding of counterweights; guarding of exposed auxiliary equipment; pits; horizontal and vertical clearances; protection of spaces below hoist ways; hoist way entrances; door operation; car enclosures, lighting and ventilation · Elevator Electrical Equipment Operating devices and control equipment; terminal stopping devices; electrical wiring in hoistway and machine room; National Electrical Code requirements for elevators and related equipment · Emergency Operations and Signaling Devices Emergency signaling devices (Rule 211.1); Firefighters' service (Rules 211.3 - 211.8); Standby power (Rule 211.2) · Hydraulic Elevators Hoistways, machinery and equipment - variations from electrical elevator requirements; plungers and cylinders; valves, supply piping, fittings; tanks; terminal stopping devices; operating devices and control equipment · Escalators and Moving Walks Construction requirements; driving machine motors and brakes; operating and safety devices; lighting, access and electrical work · Overview of Miscellaneous Elevator Codes and Standards All parts not covered in detail; A17.2 Inspectors' Manuals; QEI-1 Standards for the Qualifications of Elevator Inspectors; A17.3 Safety Code Existing Elevators and Escalators; A17.4 Evacuation Guide, Etc. · Accessibility Regulations For Elevators Overview of ADA; ADAAG; CABO/ANSI A117.1

About the Instructors: D.A. Swerrie. P.E. brings over 45 years of elevator expertise industry insight. His elevator career started in the field -- servicing, repairing, and answering trouble calls. He then spent some 20 years working for the state of California as an elevator inspector and elevator safety program administrator. He is a certified inspector, an active member of NAESA International, a member of the A17.1 NIRC of IAEE, and of NAVTP.

2.5 Days of Instruction:

Early Bird Member Rate = \$1295

Member Rate After December 23 = \$1395

2.5 Days of Instruction:

Early Bird Non-Member Rate: \$1395

Non-Member Rate After December 23 = \$1495

2.5 days / 2.1 CEUs/21 PDHs

Contact your Canaveral ASME Industry Relations
Leader Scott Seigel at 321-757-0486 to Register.

Name _____

Company _____

Street Address _____

City/State/ Zip _____

Phone _____

How To Perform Elevator Inspections Using ASME A17.2
February 4-6, 2004 - Cocoa Beach Hilton
A Professional Development Course offered by
The ASME Canaveral Section to all interested Technicians & Professionals
321-757-0486 * 321-255-1965 fax

Description:

This comprehensive course is based on ASME A17.2 Guide for Inspection of Elevators, Escalators and Moving Walks. Inspection test procedures are demonstrated with detailed explanation of techniques and concepts. You will also learn how to determine: · Safety sliding distance · Top and bottom car, counterweight clearances, runby · Working pressure for hydraulic elevators · Governor pull through and release carrier pull out forces

WHO SHOULD ATTEND This course is designed for individuals involved in inspecting, testing, installing and maintaining elevators. Those who have benefited from the previous course will find this new course essential for updating their code knowledge and inspection skills. It includes the latest code requirements and is especially suitable for: · Federal, state, city or any other jurisdictional inspector · Insurance inspectors, private inspection agency personnel and in plant safety inspectors · Elevator consultants, engineers, architects and technical managers · Elevator technicians, elevator constructors and elevator mechanics are required to conduct test and/or repair and install elevators to meet elevator code requirements · Building managers, building engineers and supervisors who have elevator maintenance or contracting responsibility · Service contractors and managers

Please bring a copy of ASME A17.1 -2000 Safety Code for Elevators and Escalators, ASME A17.3-1996 Safety Code for Existing Elevators and Escalators, and the 1996 National Electrical Code as well as a calculator.

SPECIAL FEATURES AND BENEFITS · Workshop format using new videotape examples covering both inspectors' manuals and sections on inspection and testing · Receive a copy of ASME A17.2- 2001 Guide for Inspection of Elevators, Escalators & Moving Walk, Elevator Industry Inspection Handbook and Elevator Industry Field Employees' Safety Handbook-2000

Short Course Outline: · Review of inspection requirements for each item on the inspection checklist in the new Inspectors' Manual for Elevators · Sample worksheets to record and clarify elevator test requirements and measurements · Review of safety practices for inspection and maintenance that are highlighted in the inspectors' manuals and Elevator Industry Field Employees' Safety Handbook 2000 edition · Drawings and diagrams that illustrate code requirements and checking techniques · Participant interaction with the instructors and each other regarding inspection techniques show on the video tape

About the Instructors: Zack R. McCain, Jr., PE is an ASME Fellow and Certified Elevator Inspector as provided for ASME QEI-1. He has served on the A17.2 Inspectors Manual Committee since 1976 and the A17.1 Main Committee (now the Standards Committee) since 1985. He served as Vice Chairman of that committee from 1986 to 1999. He has been a member of ASME QEI-1 since its beginning. He is Chairman of the A17.1 Working Committee on Maintenance, Repair and Replacement. He has operated McCain Engineering Associates, Inc. since 1990 specializing in vertical transportation. Prior to that time he served with various federal agencies including the U.S. Army Corps of Engineers, General Services Administration and U.S. Postal Service.

2.5 Days of Instruction:

Early Bird Member Rate = \$1295
Member Rate After December 23 = \$1395

2.5 Days of Instruction:

Early Bird Non-Member Rate: \$1395
Non-Member Rate After December 23 = \$1495
2.5 days / 2.1 CEUs/21 PDHs

Contact your Canaveral ASME Industry Relations Leader Scott Seigel at 321-757-0486 to Register.

Name _____

Company _____

Street Address _____

City/State/ Zip _____

Phone _____



AMERICAN SOCIETY OF MECHANICAL ENGINEERS

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

