The Canaveral Flyer

A Newsletter of the Canaveral Section of ASME International

VOLUME XLVI, ISSUE 5 | **JANUARY, 2004**

Message from the Chair...

Happy New Year!

I hope you had a happy and healthy Holiday and are ready for 2004! This is shaping up to be an exciting next couple of months for our section with a variety of activities for you to participate in.

You wanted more tours; well you got it! Our first tour will be of Mathers Bridge, a drawbridge located near the southern end of Merritt Island in Indian Harbour Beach that will take place on Saturday January 17. This will be an event open to the families and will be very informative. See the attached flyer for more information.

You wanted a sit down dinner; well you got it! Come out and join us as we recognize our long- term members at our Awards banquet to be held on January 21. This is a great opportunity to help celebrate with your colleagues in the area.

You wanted more Professional Development courses; well you got it! Scott Seigel will be leading the charge at our upcoming elevator courses in the first week of February. With the number of elevators in our area and at the Cape alone we thought this was a natural to put on so sign up and take advantage of this terrific opportunity today.

You wanted another distinguished lecturer; well you got it! In February we will have John Adams in town to speak on flight mechanics using the example of a golf ball. It will be entertaining and informative so tell all your golf buddies and lets make this an event to remember!

You wanted a chance to give back to the community; well you got it! In February we celebrate E-Week and will have the chance to go out and speak to students in local schools. The more folks we get to sign up the bigger impact we can have as a section. Don't delay, sign up today!

This variety that we are offering shows you are commitment to bring a diverse set of engineering programs to you our members. Sign up today for the events you would like to take part in so we can finalize our planning to make these and our other events opportunities to remember. Thanks and I look forward to meeting and working with you all in 2004!

Dan Johnson

Preview of Coming Attractions

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.

Mark your Calendars - 2003 Canaveral Section Events					
Date	**Event**	**Location**	**RSVP Date**	**Contact**	**Contact Info**
Jan 17	Drawbridge Tour	Mather's Bridge	Jan 9	Will	william.e.judd@boeing.com
Jan 21	Canaveral Section Awards Dinner	Melbourne Beach Hilton	Jan 14	Leanna	
Feb 2-4	PD Course: ASME A 17.1 Safety Code for Elevators and Escalators	Cocoa Beach Hilton	ASAP	Scott	seigels@asme.org
Feb 4-6	PD Course: How to perform Elevator Inspections using ASME A17.2.1 & A17.2.2	Cocoa Beach Hilton	ASAP	Scott	seigels@asme.org
Feb 18	Distinguished Lecturer: John Adams on Flight Mechanics of Golf Ball	TBA	Feb 11	Dan	Djohns08@harris.com
Feb 04	E-week event at local schools	TBA	TBA	Stephanie	STHopper@xch-bsco-06.ksc.nasa.gov
Feb 04	E-week Banquet in conjunction with CCTS	TBA	TBA	Tal	
Mar 04	Fla Tech/ Canaveral Section Joint Dinner & Senior Design Presentation	Fla Tech Campus	TBA	JD	jvangild@harris.com

Distinguished Lecturer on for February at CCTS E-Week Banquet

Alan Zakaluk has worked his magic once again and in working with the Florida Section we will be sharing a distinguished lecturer this coming February 20. The speaker will be John C. Adams Jr. and his topic is entitled "Flight Mechanics of a Spinning Dimpled Spheroid". Here is a little background on what the presentation is all about.

> Want to increase your driver distance off the tee? Carry fairway sand traps? Boom drives over trees to cut the corner? Come learn the factors influencing the aerodynamic flight trajectory of a golf ball - things like spin rate, launch angle, and launch velocity. This knowledge won't help cure your slice or hook, but surely you'll become the Tiger Woods of your foursome after you discover how Newton's second law of motion (F = ma) coupled with lift and drag aerodynamics due to spin applies to improving your game. As an educational sidelight, you will see how easy and effective it is to apply a Visual Basic for Applications macro in an Excel spreadsheet for simulation
> applications. This Visual Basic tool can help improve your productivity in "quick and dirty" analysis of many engineering problems.

This will be a fun and informative presentation. **Tal Webb** has had the fortune to see this once before and gives it high marks so mark your calendar now.

This will be in conjunction with CCTS E-Week Banquet and will be held at the Holiday Inn in Cocoa Beach. There will be a Social starting at 6:00 pm, followed by Dinner at 7:00 pm and culminating with the presentation and Awards Ceremony starting at 8:00 pm.

If you have any question please do not hesitate to contact either Alan or Dan.

December Get Together

We took a break from the technical and welcomed the holiday season with a gathering at the Henegar Center in Melbourne on December 19. Although turnout was small, fun was had by all when we met to watch “Home for the Holidays”. It was a musical presentation of traditional and contemporary holiday songs presented by a group of local performers where the scene was decorating a home for an holiday party. The two-act play lasted a couple hours and it was a great way to kick off the holiday.

Dan Johnson

What’s happening at Florida Tech

The second half of the college year will be starting up soon and with it comes more activities for our student members at Florida Tech. The first meeting in January is going to be an impromptu design competition which are always fun and give the students another chance to practice team dynamics. In February the ASME Student section will be taking part in E-Week activities on campus by helping to promote engineering through a series of interactive programs. In March we will meet for our annual joint dinner with the student section and take part in their senior design presentations. This is always a great time and gives a chance to keep up with what the students are working on first hand.

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**

Brain Teaser

This was our best month yet in regards to responses to the brain teaser question, even though I did take some flack for making it a little less challenging. Congratulations to **Allan Torsney, Jim Elmore**, **Bill Imre**, **Jim Summerlin**, and **William Couch** for getting it correct! Here is the solution to last months question if you missed it.

Solution:

"Let x be my present age. My age 3 years from now will be $x + 3$, and 3 times that will be $3 (x + 3)$. Similarly, my age 4 years from now will be $x + 4$, and 4 times that will be $4 (x + 4)$.
Adding the two gives 8 times my current age. This gives the equation:
$3 (x + 3) + 4 (x + 4) = 8 x$.
Solving the above equation gives
$x = (3 \times 3) + (4 \times 4) = 25$.

Thus, I will be **28** years old 3 years from now.

Take a look at the question below and give it a shot. 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 a gift certificate out to the person who has received the most points for correct answers.

Scott takes the underground train to work and uses an escalator at the railway station. If Scott runs up 6 steps of the escalator, then it takes him 30.0 seconds to reach the top of the escalator. If he runs up 13 steps of the escalator, then it takes him only 19.5 seconds to reach the top.

How many seconds would it take Scott to reach the top if he did not run up any steps of the escalator at all?

Good luck!

Treasure Coast SEA

Dr. Clovis A. Linkous of the Florida Solar Energy Center gave a presentation on Hydrogen. "Hydrogen is in many respects the ultimate fuel: it is the most abundant element in the universe; as a molecular species it possesses the highest gravimetric density of any chemical substance etc" This was a very interesting presentation and 22 persons were here to hear and ask questions.

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.**

What's in it for me?

I became involved with ASME as a student at Florida Tech, taking part in meetings, tours, and listening to numerous guest speakers. I have always enjoyed learning more about the profession and the camaraderie experienced within ASME. As a new graduate I want to remain involved with ASME and with the college. What better way to accomplish this goal then to act as the liaison between the student section and the senior section in our area. I enjoy the activities and getting others more involved in the profession. I look forward to participating as an active member of ASME for many years to come.

J.D. VanGilder

EMENTORING: A NETWORK of CAREER ADVICE

Access over 300 experienced engineers with backgrounds ranging from Aerospace, Design, Manufacturing and many other areas of expertise to help you with real-world issues.

Sign up for a Mentor today www.asme.org/ementoring

ASME'S MEMBER INITIATIVE SYSTEM ON THE WEB

ASME'S Member Initiative System encourages any member or operating unit of ASME to propose improvements to Society policy or procedure or to make any suggestions which would improve the operation or activities of the Society. It's easier than ever to propose improvements and to view proposals submitted by your peers.

To date, there have been 13 proposals submitted, on topics such as "ASME and Iraq Reconstruction" and "Committee on the International System of Units". To view the current year's initiatives, as well as ASME's responses, visit the Member Initiative System web page at http://www.asme.org/cma/mis.cfm.

Member Get-A-Member

New Year Resolution To-Do List:

1. Join a Gym (holiday weight gain)
2. **Participate in the ASME Member-Get-A-Member Campaign!**
3. Relax more this Year
4. Sign up for Graduate School

Be sure to include the Member-Get-A-Member Campaign on your New Years' resolution To-Do list! Introduce a friend or colleague and ASME will spend 50% of the new paid members' first year dues on student members' scholarships.

When you recommend two or more paid new members now until June 30, 2004 you will receive a certificate of appreciation signifying your support of the mechanical engineering community.

ASME will contact your colleagues or friends on your behalf, if you provide their contact information (Full Name, Street Address, City, State, and Zip, Phone (day), Email Address) at membership@asme.org.

Membership Dues are now Past Due

This is to let you know that if you have not paid your 2004 membership dues that they are now past due. ASME will begin to drop members from the roster in January. To avoid any interruption in service and benefits that ASME provides please go online today to renew or contact ASME International via telephone at 1-800-843-2763 to renew today.

Diversity and Outreach Award given to Canaveral Section officer

Mary James Legatski
ASME Public Affairs

Stephanie Hopper, a resident of Melbourne, Fla., and vice chair of ASME International's Canaveral Section, was awarded the 2003 Diversity and Outreach Award during a presentation ceremony held in November in Washington, D.C., during the ASME International Mechanical Engineering Congress.

The Diversity and Outreach Award, established in 1996, is presented by the ASME Board on Diversity and Outreach to an outstanding member of ASME in recognition of that person's work to make ASME a welcome place for all to participate, and to encourage inclusiveness and the involvement of women and under-represented minorities in the Society.

Stephanie Hopper

Hopper was chosen for her leadership of the Canaveral Section's K-12 initiative to introduce younger students of her local community to engineering as a career choice. Her commitment to involving more women and under-represented minorities in the Canaveral Section's activities was cited as another reason for her selection.

Hopper is currently the vice chair of the Canaveral Section. She has served as its chair of Women and Minorities for the past three years. She has also led the reorganization of the Canaveral Section to better meet the needs of its members and to provide new opportunities for growth. Hopper will become chair of the section in 2004.

More information on the award is available at www.asme.org/communities/diversities/bdo/award.html. Nominations for the 2004 Diversity and Outreach Award must be submitted no later than July 31. The recipient will be honored at the 2004 Congress.

For more information, contact Mary James Legatski in the Washing Center at legatskim@asme.org or at (202) 785-3756. ■

Congratulations Stephanie on your Recognition at the International Level!

ASME Canaveral Section Presents

Tour – Mathers Bridge

When: Saturday – Jan. 17, 2004

Time: 10:00 AM @ Mathers Bridge, east end

(car pool if possible – parking on east/beachside is limited!)

Have you ever wondered about the immense mechanisms that work together, out of sight, to open and close a drawbridge? Then *this* is the fascinating tour for *you*!

Mathers Bridge is located on South Tropical Trail in Merritt Island. It connects Merritt Island with South Patrick Drive, and Dragon Point is located nearby. The bridge is named after John R. Mathers, who in 1927 constructed a toll bridge from Merritt Island.

RSVP by Friday, Jan. 9, 2004 to:
Will Judd, william.e.judd@boeing.com

COME TO THE ASME AWARDS BANQUET
HELP US RECOGNIZE YOUR COLLEAGUES
FOR THEIR ACHIEVMENT!

- **Where:**
  Melbourne Beach Hilton
- **When:**
  Wednesday, Jan. 21st
  Social: 6:00 to 6:30 pm
  Dinner: 6:30 to 7:15 pm
  Presentation: 7:15 to 8:00 pm
- **RSVP**
  - Dan Johnson
  - by Thursday, Jan. 15th COB
  - e-mail: djohns08@harris.com
- **Dinner choices are:**
  - N.Y. Strip, Mahi-mahi, Plum Sesame Chicken
- **Cost:**
  - $22.50 per person
- **Award Recipients:**
  - Henry W. Riley, Jr. P.E. 25 years
  - Louis E. Lemire, Jr. 25 years
  - Frank Baretta 25 years
  - David L. Clayton 25 years
  - Larry R. Shelquist, P.E. 25 years
  - David M. Cadorette, P.E. 25 years
  - Marshal Hieronimus 25 years
  - Henry Croskeys, Jr. (Life member) 35 years
  - Thomas Frost 50 Years
  - Maurice Hoyt 50 Years

Guest Speaker:

Carol Ann Garrattt will talk about her trip around the world ..In a Mooney M20J

- "There are very few women who have achieved this adventure single-handed," said Carol Ann. Even fewer (male or female) have done it "backward," by flying west, but she wanted to fly the longer legs first.
- Carol Ann will speak on her seven-month, 31,643-nautical-mile trip from her home in Kissimmee, Florida, on February 28. Besides circumnavigating the globe, she hopes to raise awareness and research funds for amyotrophic lateral sclerosis commonly called Lou Gehrig's disease

~~~~~~~~ Sign up today! ~~~~~~~~

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.

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Company _____

Street Address _____

City/State/ Zip _____

Phone _____

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