



# The Canaveral Flyer



*A Newsletter of the Canaveral Section of ASME International*

**VOLUME XLVI, ISSUE 4**

**DECEMBER, 2003**

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

**HAVE A SAFE  
AND HAPPY  
HOLIDAY!**

*Message from the Chair...*

## Canaveral Section Wins Earl V. Fisher Award!

Another Award has made its way to your local Canaveral Section! The family of the late Earl V. Fisher has donated an endowment in his name for ASME to provide an annual cash award to those units that do an outstanding job in their membership development activities. The Committee on Membership awards up to three outstanding units annually for their innovative approach to attracting and retaining members. We were recognized for doing an excellent job of involving members by combining social and informational events and tours. We also gained recognition for creating opportunities for all members to get involved as little or as much as they like by giving them distinct jobs to work on based on their interest and time. Our section will receive a check for \$100 that we will put to work keeping our section moving in the right direction.

Keeping our doors, e-mails, phones, and minds open to the diversity our local membership brings, the knowledge base we can share with one another and the desire to keep this a vibrant engineering community makes us all better mechanical engineers and community leaders. The only thing that can stop us from making even bigger strides is ourselves.

I look forward to seeing you in December and the months to come! If you have any questions or comments for the section please do not hesitate to contact either myself or one of the other officers so that we can answer.

I want to take this time to wish you all a safe, healthy and happy holiday season as we wrap up 2003. The year has gone by at breakneck speed and I'm looking forward to an even more exciting 2004!

Dan Johnson

## Preview of Coming Attractions

Mark your Calendars - 2003 Canaveral Section Events					
Date	Event	Location	RSVP Date	Contact	Contact Info
Dec.	Musical Revue "Home for the Holidays"	Henegar Center in Downtown Melbourne	Dec 11	Dan	<a href="mailto:djohns08@harris.com">djohns08@harris.com</a>
Jan. 21	Canaveral Section Awards Dinner	TBA	Jan 14	Leanna	
Jan.	Drawbridge Tour/Meet	TBA	TBA	Will	
Feb. 04	E-week event	TBA	TBA	Stephanie	<a href="mailto:STHopper@xch-bsco-06.ksc.nasa.gov">STHopper@xch-bsco-06.ksc.nasa.gov</a>

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.

## November Distinguished Lecturer Meeting was Outstanding!

We had about 20 people attended our Distinguished Lecturer Karen Warden who spoke on Orthopedic Engineering on November 5 at Holmes Regional Medical Center.

"So what is "Orthopaedic Engineering", is it sort of like the bionic man?" Well, no it is not quite that glamorous or futuristic yet, but the advances in our knowledge of musculoskeletal biomechanics, biologic and synthetic biomaterials, and implant design, development and performance certainly serve as one of the foundations of bionics. Consider that in 1988 an estimated 11 million individuals in the US had some form medical implant and 50% of these were orthopaedic devices. Think of the increases in athlete performance over the past fifty years. Compare the surgical scars left by knee surgery 25 years ago to those of today. All of these examples involve advancement in "Orthopaedic Engineering." This talk described 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 orthopaedic implants were 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.

This was truly an outstanding event and thanks to Karen Warden for traveling to our section to speak, answer questions and tell us about this interesting facet of mechanical engineering. Many thanks to **Alan Zakaluk** and **Faye Tomimbang** for getting this event set up through the hospital.

Dan Johnson

## December Get Together

We mentioned in last months newsletter that we wanted to take a break from the technical side and help our glide into the upcoming holiday season we want to have a evening at the Phoenix Theater in downtown Melbourne to see the play will be "Jacob Marley's Christmas Carol". Unfortunately, that play has been cancelled by the Phoenix Theatre, so we had to look for an alternative solution.

The Henegar Center in downtown Melbourne will be hosting a holiday musical revue featuring traditional and contemporary music of the season called "Home for the Holidays". We have a group of tickets reserved for the Friday, December 19, 8:00 PM show. Please contact me as soon as possible to reserve your seats to this very family friendly event! I ask that you please RSVP by Thursday, December 11 by contacting Dan Johnson at [djohns08@harris.com](mailto:djohns08@harris.com) to sign up or for more information.

## Treasure Coast SEA

We had a program on the Stirling Engine operation and field experience. The presentation was made by our own **Kelly Mather** to the 16 that turned out for the meeting. Decembers meeting will have a speaker from the Florida Solar Energy Center presenting to our group with special thanks to **Jack Wiles** for setting up this event.

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?

One of the first things I saw about ASME was the level of cooperation among the members, especially in the Canaveral Section, to make this a strong and active society. There are many opportunities to get involved with the meetings and functions and to have input and various responsibilities. There also exists the ability to network with key members of industry and government, and to establish important professional contacts. The Society offers numerous resources to its members. Each meeting or event is an opportunity to learn and grow in our profession, and to share our unique skills and knowledge with others. In other words, to be part of something that will be stronger and continue on even after we are gone, and this due to our influence and participation in a great organization.

Paul Burke

## What's happening at Florida Tech

On November 19<sup>th</sup> the student section of ASME held a general meeting featuring Alan Bertwistle as the guest speaker. Alan spoke about the freedoms and discipline required of a self-employed engineer. He stressed the fact that many of the advantages can also be disadvantages depending on how much discipline you had to set goals and accomplish them in a timely manner. Alan displayed pictures of the various jobs he has taken part in designing as well as some pictures of the car he has designed and built at his own shop. The car is almost finished and all of us are hoping to see it when the bodywork is done.

The turnout for the student section events has been exceptional so far this year and this meeting was no different. Approximately 30 students, faculty, and student section officers were in attendance for Alan's Speech. Alan fielded a multitude of questions ranging from how much money can one expect to make as an entrepreneurial engineer to how the concept of the car and many of its components were designed and developed. The speech was enjoyed by all and we look forward to a follow-up in the near future.

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)

## Brain Teaser

The brain teaser continues to be a hit with us receiving several replies and congratulations to Allan Torsney (Again!!) and Jim Elmore for getting it correct! Here is the solution to last months question if you missed it.

### Solution:

(a) The snake has entered the hole when its tail just comes into the hole. It is given that 13 seconds elapse from the time the snake's head enters the hole till its tail enters. Thus,

Length of the snake = Distance traveled in 13 seconds

= (5 cm/s) x (13 s) = **65 centimeters**.

(b) The snake has exited the hole when its tail just leaves the hole. The distance traveled from the time the snake's tail just enters the hole till its tail just leaves the hole equals the length of the hole. Thus,

Time for the snake to exit the hole after entering it =

Length of the hole / Speed = = (7.30 m) / (5 cm/s) = (730 cm) / (5 cm/s) = **146 seconds**.

Take a look at the question below and give it a shot. Submit your answer to Dan Johnson at [dan.johnson@harris.com](mailto: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.

"When I add 3 times my age 3 years from now to 4 times my age 4 years from now, I get 8 times my current age. How old will I be 3 years from now?"

Good luck!

## Engineers Week 2004

This coming February 22-28, 2004, Engineers Week will focus world attention on engineers and engineering. In elementary schools and college campuses, in offices and at home, people will pause to recognize engineers' contributions to public safety, economic development and technical education.

Engineer's Week succeeds because engineering students and professional engineers like you take the time to care. Special programs that offer increased interaction worldwide kickoff year-round activities. Throughout the week, members of ASME and the other sponsoring societies will visit classrooms, mentor young people, organize science fairs and contests, guide plant tours and conduct other activities that will forge a memorable and lasting impression of our profession. The rewards are immense-to individuals and to the profession. I urge your active planning for and participation in important activities such as these.

Some ASME sections already are making plans to conduct tours, hold banquets, work with school programs, organize school fairs, speak to scout troops, and participate in competitions, as students or mentors. If you haven't already started planning your activities for the 2004 Engineers Week celebration, there's still time. A planning kit with suggested activities and programs is available online at [www.eweek.org](http://www.eweek.org). Remember, Engineers Week succeeds because engineering students and professional engineers like you take the time to care. Let's all get involved!

Reginald I. Vachon  
President, ASME International

## **Young Engineers Award: Nominate a Young Engineer from your Section**

The Old Guard Committee honors ASME members that have made great strides in the engineering profession, community and the work of the Society by sponsoring the Young Engineers Award. We would like you to consider nominating someone from your section/region for the Young Engineers Award.

To be eligible, a member must also have continuous membership since becoming a student member and have earned a baccalaureate degree in Mechanical Engineering between the years March 1, 1998 and March 1, 2000. According to member records, we have identified 402 current paid members that are eligible. Please see the attached excel file.

The top Young Engineers Award recipient will receive \$5000 CASH. All nominations must be received no later than March 1, 2004.

Please visit [www.asme.org/cma/og/youngengineer.html](http://www.asme.org/cma/og/youngengineer.html) to learn more about the Young Engineers Award selection criteria and how to start the nomination process.

We appreciate your attention to this matter. If you have any questions, please do not hesitate to contact Cheryl Hasan, Coordinator, Member Recruitment at 212.591.8239 or via [hasanc@asme.org](mailto:hasanc@asme.org).

## **Preliminary Announcement of Call-for-Papers for the 2004 ASME Regional Technical Conference (RTC)**

Yong Tao, Ph.D., Chair of the Editorial Board of RTJ sent the following to Section Leaders for us to pass on.

I would like thank you for the support and contributions of your student members and entry-level engineers for the success of the 2002 and 2003 ASME Regional Technical Conferences (RTC). As we start our planning for next year's RTC, I send this email on behalf of the Editorial Board of the ASME Region XI Technical Journal, to make a preliminary announcement of the Call-for-Papers for 2004 ASME Region XI RTC. The RTC will be held concurrently with the Regional Administrative Conference (RAC) and the Regional Student Conference (RSC) in Mobile, Alabama on April 2 to 3, 2004. In the coming weeks, the detailed information about the RTC (and RAC and RSC) will be available online and more email announcements will follow. Please use this email as a planning notice for recruiting prospective authors to present their technical papers at this conference.

Please mark your calendar with the deadline of January 6, 2004, which is the due date for draft paper submission. Please advise the potential authors or contributors about this deadline. We especially appreciate your extra efforts to recruit graduate students and entry-level engineers, who have completed their degrees (BS, MS, or Ph.D), to submit their papers. It is important that the author's paper meets that deadline in order to facilitate the scheduled timely review process.

In the coming weeks expect to receive the formal announcement of Call-for-Papers for 2004 ASME Region XI RTC with the detailed information about paper submittal, including the format, scope and other deadlines. In the meantime, please do not hesitate to call or email me if you have any questions, or feel free to contact either of the below:

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## **Fuel Cell Seminar in Miami**

Jim Philips and Paul Burke attended the 2003 Fuel Cell Seminar in Miami Beach, which was held November 3-7. There were short courses, oral and poster presentations and 170 exhibitors. About 3000 people were in attendance to establish cooperative and collaborative efforts in R&D of hydrogen and fuel cell technologies. Hydrogen and fuel cells have the potential to solve several major challenges facing America today, including dependence on petroleum imports, poor air quality, and greenhouse gas emissions. We are taking a giant leap closer to a hydrogen economy and a fuel cell world.

Paul Burke

*Please Join The Canaveral Section of ASME for an evening of Holiday Music*

*RSVP by December 11, 2003*

*Contact: Dan Johnson at [djohnso8@harris.com](mailto:djohnso8@harris.com)*



# Home for the Holidays

## Henegar Holiday Show

A holiday musical revue showcasing traditional and contemporary music of the season. Featuring a cast of familiar faces, it is sure to be an annual holiday favorite.

### December 12-21

December 12, 19, 20 at 8 pm  
December 13, 14, 21 at 2 pm

Special Opening Night Reception:  
Complimentary Holiday Treats & Refreshments

### 723-8698

Tickets: \$15/\$12/\$10  
Available November 11

**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**

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