



THE CANAVERAL FLYER

A NEWSLETTER OF THE CANAVERAL SECTION OF ASMEI

VOLUME 42, ISSUE 7

MARCH 2002

<p>Executive Committee Chair Scott E. Seigel Work: 407-736-7839 Home: 321-255-1965</p>		<p style="text-align: center;">A Letter from the Chair</p>	
<p>Executive Committee Vice-Chair Hugh Bain Work: 321-953-1812 Home: 321-768-0358</p>	<p>WOW! What an Engineer's Week Banquet! ASME stole the show with the Tal Webb Award this year as the Kennedy Space Center (KSC) Director himself, Roy Bridges, Jr. earned one of ASME's top honors. Never mind that ASME membership showed up strongly with 24 members and guests. At 8 people per table... 3 tables... doing the math... we occupied 3 of 12 tables at the event. Let's see there are 31 other societies in the Canaveral Council of Technical Societies (CCTS)... I can say with 100% certainty that ASME had the most people there. Kudos to all that attended. The feature presentation was one of the best I have ever seen, It rivaled up there with the SR-71 presentation and in many ways it was better. If you are not participating you are missing out!</p>		
<p>Treasurer Tim Ehlers</p>	<p>After last year, when the award went to Adrian Laffete, I swore that I would memorize this year's speech especially the winner's accomplishments. After I read Roy Bridge's accomplishments I decided that it would be best to read them all. It would take days to memorize all his accomplishments in his military and civilian career. Read http://www-pao.ksc.nasa.gov/bios/bridges.htm when you get a chance. I started the presentation with "There is only a few people's bio's that I would like to have and Roy's bio is one of them." I can supply you with additional information of this real life Hero. Scott.seigel@siemens.com</p>		
<p>Secretary Will Judd</p>	<p>Those who missed the Pressure Vessels course missed a great course. Don't forget about the Fracture Mechanics Course starting April 2, 2002 at the Cocoa Beach Hilton. One year's free membership is included in the price of the seminar with corporate discounts for those companies that enroll more than 2 students at a time!</p>		
<p>College Relations (FIT) Pierre Larochelle, PhD, PE pierre@fit.edu</p>	<p>On Saturday March 16th, 10:00 am we have a tour of the Harbor Branch Foundation in Vero. More information when you turn the page.</p>		
<p>Honors & Awards Chair Jim Phillips, PE</p>	<p><u>Crisis time... The ASME Regional Administrative Conference (RAC) is coming up April 5-7th and money is needed to send the FIT Student Section to Jackson, MS.</u> In a few weeks I will be swimming with the sharks...The FIT Student Section is having it's annual Senior/Student section mixer at FIT. For those members in Palm Bay there is no excuse for your lack of attendance. You people at Harris (except Dan Johnson and Alan Zakulak) wake up and attend a meeting. The FIT Student Section is accepting TAX DEDUCTIBLE DONATIONS. There could be prizes to be won by many...</p>		
<p>Industry Relations Keith S. Conaughty, PE 321-853-6434</p>	<p>Alan Zakulak, forgive me if I misspelled your last name... is working on a Distinguished Lecturer for April or May. Call him at Harris. He requires your input! The Space Congress in May is not to far away and the Manatees game in June will be here before you know it. Don't forget about July 1st! The best day so far this year!</p>		
<p>Membership Development Korie Carter 321-777-9331</p>	<p>Take care and G-d Bless you all!</p>		
<p>Member Interests Mark Greby, PE</p>			
<p>Minorities & Women Stephanie Hopper</p>			
<p>Newletter Editor Hugh Bain</p>			
<p>Professional Development Scott E. Seigel</p>			
<p>FSEC Representative Dave Chasar</p>			
<p>FIT Student Chair Morgan Plamondon</p>			

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Canaveral ASME Section 2001-2002 Officer Listing

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MARCH'S MEETING:

Treasure Coast ASME Retirees to Host Tour at
Harbor Branch Oceanographic Institute



WHO: ASME Members, their spouses & children
WHEN: Saturday, March 16th, 2002 at 11:00 AM
WHERE: HBOI, Located just south of Vero Beach

COST: \$8 for Adults, \$5 for Children 6 to 12, Children Under 6 FREE

HBOI is located at 5600 US 1 North, Fort Pierce, FL. It is approximately 5 miles south of the Indian River/St. Lucie county line on US1. Coming from Brevard County on I-95, take the Indrio Road exit (exit 67) to US1 and follow the signs for Harbor Branch or HBOI. Meet at the gift shop by 10:45AM. The cost for the tour is \$8 for adults and \$5 for children. This tour should be of interest to all family members. An ASME Mechanical Engineering Landmark, The Link Trainer, will be available for viewing.

RETIREES' CORNER



The Treasure Coast ASME Retirees held their regular monthly meeting at 10AM on February 15th in the Vero Beach Senior Center.

The Officers are: Ed Holden - Chair; Maurice Hoyt - Secretary Treasurer; and Lee Everett and Kelly Mather - Executive Committee.

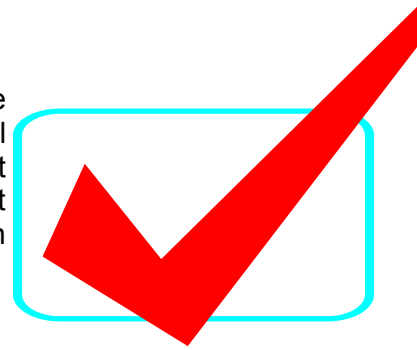
The featured speaker, Frank Leslie of the IEEE, gave an excellent overview of wind energy systems. His presentation included a sample of his rueful discovery that incompletely restrained mechanical forces can turn a beautifully constructed propellor blade for a home power generating system into a splintered mess. His outstanding talk concluded with a question and answer session that brought out some interesting items one of which was the fact that Maurice Hoyt, whose entire career was with Boeing, included designing the blade pitch control system for wind power generating systems having a blade diameter equal to the length of a football field - 300' !

Attendees included Bill and Ida Nall from Melbourne and Al and Stella Kurzenhauser from Tampa (The Florida West Coast Section) Al, a former Region XI VP and a Member of ASME's National Board of Governors, made a point of attending with the thought that "Lessons Learned" in starting up the Treasure Coastt group might benefit other areas with a large percentage of retired members. (Over 50% of the ASME Member in the Vero area are retired.)

The Treasure Coast ASME Retirees have arranged a tour of the Harbor Branch Foundation for their next meeting and have moved the date from their traditinal third Friday of the month to Saturday, March 16th, in order to make the tour available to all members of the Canaveral Section. Details as to the time, gathering place, and cost are provided elsewhere in this newsletter. Maurice Hoyt, who is handling the arrangements, will try to have them include an opportunity for Canaveral Section Members only to see an ASME Historic Landmark that's located on the Foundation's grounds but is not normally included in the standard tours. The Section visited the Harbor Branch Foundation a number of years ago and reported it to be a very favorable experience. It is reported to be even better now, so a good turnout should make it a great day for all.

2002 OFFICER SELECTIONS

The future success of the Society depends on the effective utilization of the knowledge and abilities of its individual members. If the Society is to improve or refine its present programs, it is essential that the members continue to select new officers who are capable, dedicated individuals with exceptional leadership qualities.



The 2002 Nominating Committee, consisting of 38 voting members, urges that you submit your proposals now. As part of its selection process, the Committee will study each of the written proposals submitted on behalf of all proposed nominees for office and will interview the proposed nominees and their supporters.

The Nominating Committee will select 13 nominees for Vice Presidential positions for the 2003-2006 term. There will be five Regional Vice President positions (I, VII, IX, XI and XIII); three Engineering Vice President positions (Engineering & Technology Management, Environment & Transportation, and Int'l Gas Turbine Institute); two Codes and Standards Vice President positions (Conformity Assessment, and Safety Codes & Standards); and three other Vice President positions (Engineering Education, Government Relations and Member Interests & Development).

The Nominating Committee will select three nominees for the member-at-large positions on the Board of Governors for the 2003-2006 term, and a nominee for President for the 2003-2004 term.

If, as a member of ASME, you are interested in submitting a proposal for any one of the above elective offices, please contact Rita M. Patterson, Secretary, 2002 Nominating Committee, at 409-772-9071, rita.patterson@utmb.edu. The nomination package is available on ASME's web site <http://www.asme.org/honors> or copies may be obtained from Gilda A. DiTullio at ASME Headquarters at 212-591-7736, ditulliog@asme.org. The deadline for submitting completed proposal forms is April 15, 2002.

The Nominating Committee will be meeting during the Summer Annual Meeting in Minneapolis, Minnesota, June 9-12, to nominate individuals for ASME Society office. The names of the nominees will be on the officer election proxy that will be circulated to the membership in September 2002.

A WORD FROM DON SHAFFER ON ASME B31.1 / B31.3

The ASME B31 codes for pressure piping are concerned with piping design, materials, fabrication, and inspection practices. There are many different parts of the B31 piping codes. ASME B31.1 is concerned with Power Piping such as used in power plants, while B31.3 deals with Process Piping such as used in Chemical plants or Refineries. Although the ASME B31.1 and B31.3 codes are thought to be companion codes, B31.3 is considered to be better developed than the B31.1 code since historically there has been more activity in the Process and Refinery fields working on the B31.3 committee.

Each year the ASME B31 working committees have several meetings for discussion and to work on various code activities. Meetings are usually scheduled; one in the east part of the country and another in the west. So far this year, the ASME B31.1 meetings are scheduled to take place on Jan 28-30 in Tucson, Arizona and on June 03-05 in St. Pete Beach, Florida. The first ASME B31.3 committee meeting is scheduled for April 22-24 in Colorado Springs, Colorado. There may also be other pressure vessel and piping conference meetings or joint B31.1/B31.3 committee meetings held during the year, as yet unannounced.

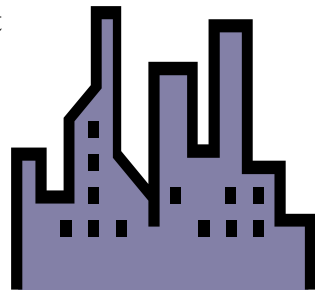
The individual committee meetings usually follow a three day format; the first day spent networking and members making technical presentations. The main committee work is usually done on days two and three. Usually day two is spent in individual working task meetings. The third day is where the group meeting is held and overall work is discussed.

A review of the states that have B31.3 committee members lists; Texas, Illinois, North Carolina, South Carolina, Ohio, Indiana, New Jersey, Delaware, Oklahoma, Alaska, Missouri, California, Massachusetts, New York, Pennsylvania, Rhode Island, Kansas, and Alberta. None are in Region XI. A similar list for B31.1 was not available at the time this article was being written.

Committee members serve on a voluntary basis. The B31.1/B31.3 members work on assigned tasks in the task meetings. Volunteers are usually assigned work based on their level of expertise and experience they bring to the committee. As a benefit, volunteers also get a voice into the makeup of future code revisions and committee tasks. The committee members have a considerable experience base available, with literally hundreds of years of combined piping experience. The ability to focus this experience upon solving a specific member problem is another definite benefit that the committee members share.

Our Region XI Section is interested in determining the level of interest in B31.1 and B31.3 code committee meetings. The Canaveral Section would like to hear about your B31.1 and B31.3 issues, or comments regarding ASME B31.1/B31.3 piping involvement.

Don Shaffer



ROY D. BRIDGES AWARDED ASME J. TAL WEBB AWARD

Roy D. Bridges, Director of Kennedy Space Center, was awarded the distinguished ASME J. Tal Webb Award during Engineer's Week 2002 for his exemplary service to the Space Industry and to the communities surrounding KSC.

Mr. Bridges successfully completed a comprehensive reorganization of KSC for the first time in over 20 years. This effort, called "KSC 2000," was to realign the organizational structure of the Center to better meet the existing and future Center and Agency mission and goals. The KSC 2000 effort resulted in a streamlined organization and resolved a number of difficult problems related to supervisory span of control, diluted accountability, excessive customer hand-offs, stress from downsizing, and entrenched parochialism. Over 60% of the Center's executives have significantly new duties, reflecting the realities of the KSC mission. Recognizing that the Center had to reduce the number of supervisors to deal with the span of control issue and that KSC could ill afford to lose talented and experienced supervisors, Mr. Bridges oversaw the restructuring of supervisory positions and directed that the positions be competed. This gave incumbent supervisors a fair opportunity to retain a supervisory role and resulted in a revitalized organization ready to face the challenges ahead. Despite the turbulence from the reorganization, the KSC 2000 effort was so well managed that the Center completed an ISO 9001 audit within two weeks of implementation with only two minor discrepancies.

Roy D. Bridges, Jr., became the Director of NASA's John F. Kennedy Space Center on March 2, 1997. He is responsible for managing all NASA's facilities and activities at the Kennedy Space Center related to processing and launch of the Space Shuttle, processing and integrating NASA payloads flown on both the Shuttle and Expendable Launch Vehicles (ELVs), final tests and preparations of International Space Station (ISS) elements to be flown aboard the Shuttle, and developing spaceport and range technologies to improve safety and reduce the cost of access to space. Kennedy Space Center is also the Lead Center for all NASA Expendable Launch Vehicles (ELVs) and Payload Carriers. As such, KSC is responsible for the acquisition and launch of all NASA's expendable launch vehicles from launch sites in Florida, California, and Alaska. He manages a team of approximately 1,835 NASA civil service employees and 10,000 contractor employees.

Bridges is a retired U.S. Air Force Major General who held many key space-related roles during his career. Prior to his last USAF assignment at Wright-Patterson Air Force Base, he was the Commander, Air Force Flight Test Center, Edwards Air Force Base, CA. He also was Commander, Eastern Space and Missile Center, Patrick Air Force Base, FL; and Commander, 6510th Test Wing, Edwards Air Force Base, CA.

As a NASA Astronaut, he piloted the Space Shuttle Challenger on mission STS-51F in July 1985.

He is a distinguished graduate of the U.S. Air Force Academy, Colorado Springs, CO, earning a bachelor's degree in engineering science. He received a master of science degree in Astronautics from Purdue University, IN., and in May 2001, he received an honorary doctorate of engineering degree from Purdue.

FRACTURE MECHANICS APPROACH TO LIFE PREDICTION

WHAT YOU WILL LEARN

This course will provide you with a practical understanding of fatigue and fracture calculations. It is pertinent to engineers who are required to perform such calculations, or who specify or evaluate testing and draft fatigue or fracture portions of design requirements. You are exposed to state-of-the-art methodologies such as the API 579 procedure and the British Standards PD 6493 approach. Related subjects such as damage tolerance analysis, reliability, and risk-based inspection will be discussed briefly.

BENEFITS

- Become familiar with the underlying assumptions and limitations of fracture mechanics.
- Gain a better understanding of material selection for fatigue and fracture resistance.
- Learn how to perform simple to moderately complex fracture mechanics calculations.
- Learn about codified procedures for flaw evaluation.

WHO SHOULD ATTEND

Engineers who work with mechanical design, mechanics and structures as well as those involved in testing and equipment fabrication.

SPECIAL FEATURE

- Receive the textbook *Fracture Mechanics: Fundamentals and Applications*, by T.L. Anderson

COURSE HIGHLIGHTS

Linear elastic fracture mechanics

- Energy release rate parameter
- Stress intensity factor
- Examples of K solutions for structures and test specimens
- KIC testing

Fatigue initiation

- Mechanisms of crack nucleation
- Strain life curves

Fatigue crack growth

- Paris equation
- Life prediction
- Crack closure
- R ratio effects

Environmental cracking and corrosion fatigue

- Stress corrosion cracking
- Hydrogen embrittlement/hydrogen assisted crack growth
- Corrosion fatigue

Elastic-plastic fracture mechanics

- Crack tip opening displacement (CTOD)
- J integral
- ASTM Standards

Variable amplitude loading

- Fatigue retardation
- Life prediction models
- Cycle counting

Fracture control

- Leak before break criterion
- Failure assessment diagrams
- British Standards PD 6493 Method
- API 579 Method

Fatigue design

- Geometry considerations
- Material selection
- Damage tolerance analysis
- Defining inspection intervals

Probabilistic fatigue and fracture analysis

- Effect of uncertainty on input data
- Probability of detection curves
- Risked-based inspection

Fractography and failure analysis

- Ductile fracture (microvoid coalescence)
- Brittle fracture (cleavage)
- Ductile-brittle transition
- Fractography of fatigue failures

Fatigue behavior of various materials

- Steels, Aluminum alloys, Titanium alloys
- Polymers, Composites, Ceramics

Date: April 2-4 Cost: \$1295

Location: Cocoa Beach Hilton

Contact your ASME Executive Chairman Scott Seigel at scott.e.seigel@swpc.siemens.com or 321-255-1965 to Register.

HOTEL INFORMATION:

Cocoa Beach Hilton

Hotel Rate \$89 Contact Scott Seigel prior to making hotel reservations

So Why Bother at All?

by Dr. William T. Cousins
Senior Vice President, Member Affairs

The age-old question is always there, why be an active member of your professional society? Do you listen to the person who is not involved, who tells you there is no benefit... or do you listen to the person who is involved, who has first-hand experience as to the career-developing activities, the networking and the professional well-being available through active participation? Look at it another way... if you want to be a millionaire, do you take the poor person or the millionaire out to lunch? Some say, "Why bother? Let the millionaire buy his own lunch," and I say... "So stay poor!"

ASME International is geared towards many technical fields. If you are an active member, you will benefit your career by the experiences in which you will be involved. Whether the benefit is meeting other people and developing contacts, practicing speaking skills, performing training activities, developing budgets, assembling a strategic plan, or one of the multitude of other career-enhancing activities, they are all available. The common misconception among those individuals who have never been actively involved is that it does not provide them or their company a benefit. Is practicing speaking skills not a benefit to the company the next time you stand before the customer and present results? Does networking with other individuals that work in your area of expertise not help you the next time you have an issue to solve and need advice? Does staying on the top of technology transfer and staying in touch with other industries and critical developments in engineering not enhance your ability to contribute to our company? Certainly all these are benefits that help both your career and your company's success and it would be foolish to think otherwise.

Looking back over my years of active involvement in ASME, I can say that I have had opportunities for personal growth that never existed within the framework of my normal job. I can also say that the involvement has provided me with experiences and other opportunities that I would not otherwise have had. In addition, the mentoring and involvement with other engineers have helped me solve problems many, many times, when I've called upon colleagues across the country for technical advice. Those who have not been actively involved have not experienced this. So then, why do you insist upon listening to those who tell you why being an active member is not worth your time? And I say again... "So stay poor!"

The members of ASME International are very serious about living ASME's mission "to promote and enhance the technical competency and professional well-being of our members, and through quality programs and activities in mechanical engineering, better enable its practitioners to contribute to the well-being of humankind." They represent the best that the profession has to offer. Many times, early career engineers do not see the full benefit of active membership (notice I say "active" membership) and how improved their career and the profession will be as a result of what they do with ASME in the areas of education, technology transfer, codes and standards, conferences, publishing and public policy development - globally and locally. The work and the culture of ASME is a reflection of values and behaviors with which responsible, caring and successful professionals are proud to be associated. Bringing the good work of the Society to our communities requires a continuing influx of creative, talented, energetic volunteers. The value of the time spent makes a significant difference in the real issues that affect our communities, profession, industries, employers and careers. It's hard for me to understand why there are engineers who do not see the benefits of active participation in their professional society. Typically, these are the ones that are out of date in five years and do not keep up on the technology in their field. Too bad.... I guess to those I say, "Why bother? So stay poor!"

ASME International is working to bring the benefits of active membership and participation to as many engineers as possible. This helps us to expand the work of the Society and have a greater effect on our communities, our industries, our membership, and the technology growth of our world. Our goal is to carry out more continuing education programs, more technical lectures, and more events that will help further the capability of the engineering community. So ask yourself once again, "Do I want to be poor?" Get involved in this expansion and enhance your background, expand your experiences, build your career... don't be poor. I personally owe much of my career success to my membership in ASME International and to my participation in many of its programs. Whether you are an active member or a member who is not quite involved, if you think about it and you are

So Why Bother at All? ...Continued...

honest with yourself, you must have similar goals as I to move your career forward, to further your involvement in technology, to build your own network of colleagues and friends, and be a greater contributor to both your employer and your community.

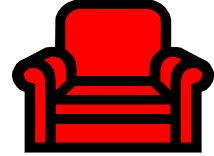
The Council on Member Affairs is prepared to help you. I and the other senior volunteer leaders, regional office and membership staff, and experienced former leaders are here to help you get this message out to other engineers... especially to students and those in the early stages in their careers who do not see the importance of active participation because they have not experienced it. Someone has to explain it to them. Call your regional office or the Membership Development Department (212.591.7742) and we will be glad to help you get this message out. We owe it to our colleagues to see that these opportunities are available to them. Don't be poor.



IT'S TIME TO.... CHECK IT OUT!!!

- ◆ Check out your ASME Canaveral Section Website @
www.asme.org/sections/canaveral
- ◆ Scholarships available to Florida Residents
Contact Mary Sharpe, Manager - External Relations / Workforce Development
Florida Space Research Institute
MC: FSRI
Kennedy Space Center, FL 32899
321-452-2653 EXT 205
- ◆ Town Hall Meeting by ASME Tallahassee Subsection
www.asme.org/sections/tallahassee/townhall

SOME FINAL WORDS FROM OUR CHAIR...



Canaveral Section Newsletter will be mailed electronically

As postage rates continue to increase along with the “Canaveral Flyer” starting to look like a newspaper, the Canaveral Section Board is moving towards strictly e-mailing the newsletter to all in a word format. Reviewing the section roster indicates that 80% of members have e-mail addresses so please keep your email address updated with your section and ASME, NY (800-THE-ASME). Implementation will be in a few short months. Those without e-mail addresses will still be snail-mailed. If you wish to receive a hard copy of the newsletter please call or write Scott.Seigel@siemens.com

Nominate yourself and a friend to join our Executive Committee. It's just an election away...

The Election of Officer's for next fiscal year (starts July 2002) will soon be at your mail bin and we are seeking nominees for the following positions...

Executive Committee Chairman
Executive Committee Vice-Chair
Treasurer
Secretary
Various Committee Members (volunteer positions)

We welcome all nominees and all volunteers. If you work with someone who is also an ASME member and you think that person would make a great Canaveral Section Officer please do not hesitate to nominate him or her. There is no need to ask their permission for if they are voted in to office by their peers, they have to serve for at least a year. This works well to nominate people you don't like also as it makes their life just a bit busier hopefully allowing them to leave you alone. If you think that was funny than **you are a great candidate for the Board** and I am looking forward to speaking with you soon. Call me at 255-1965 to nominate your friend, office PITA, or to volunteer. scott.seigel@siemens.com

ASME DUES REMINDER

Just a reminder that you will be dropped from the roles after this newsletter if you have not yet paid your dues. You can pay your dues by either calling 800-THE ASME (800-843-2763) or by accessing www.asme.org . Only 77% of our membership have paid their dues so there is roughly a 1 in 5 chance that you have not paid yours. Please contact Korie Carter, Membership Chair, or call 800-843-2763 to ensure your continued involvement with “THE BEST PROFESSIONAL SOCIETY IN THE WORLD”. Find out how to get your membership for free! It is very easy! All those who still haven't paid by February 1st shall receive a call from our Membership Committee to find out the reason. We do our best to foster a community relationship with our membership so let us know if you are pleased or not with your Canaveral Section. Join us at the Board Meeting February 12th in Suntree where dinner is free along with the advice!



**AMERICAN SOCIETY
OF MECHANICAL
ENGINEERS**

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