

PRESIDENT'S MESSAGE

Spring – Summer Upcoming Events

The Treasure Coast Chapter Scholarship Award Dinner held on April 22nd was a huge success. Local land use attorney Linda Hake gave an interesting and concise talk on the Hometown Democracy issue that will be voted on in the November election. The Chapter awarded \$6,000 in scholarships to seven outstanding young people. Our support of these young people through the scholarship program and other activities like Project Lead the Way will ensure that the Engineering profession continues to grow in Florida.

There are lots of big things happening this Month. On May 20th, we will be evaluating and judging the Project Lead the Way projects at Lincoln Park Academy in Fort Pierce. This year the Engineering Program students at Lincoln Park Academy are learning about various engineering disciplines through a hands-on expansion project for the St. Lucie County International Airport. The students have been getting presentations from over 20 Treasure Coast Chapter FES engineer volunteers on Airport Engineering, Environmental Issues, Roadway Engineering, Surveying, Storm Water Management, Utilities Design, Structural Engineering, Cost Analysis and other topics over the last four months and the final projects are due on May 20th. All FES members are invited to volunteer for the judging. Contact David Andre at dandre@aceinc.com to get more information and to sign up as a judge. The Project Judging will be at Lincoln Park Academy and will start at 6 PM. This is a fun, informal meeting event where we can interact with motivated, young, future engineers. These kids do a great job on their projects and they show incredible interest and aptitude for the engineering profession.

Also in May, the 24th Annual Treasure Coast FES Golf Tournament will be held on May 22nd at the prestigious Legacy Golf & Tennis Club. The Golf Tournament is a fun event and is one of our biggest fund raisers. Money raised will benefit Math Counts, Scholarship Funds and Project Lead the Way. As always, refreshments on the course are free. Sign up today. ...continued on next page

Calendar of Events for Upcoming Months



May 6-7th	GMEC Conference The Hilton in the Walt Disney World Resort
May 18th	Lunch & Learn Webinar: Find the Job You Want in this Turbulent Economy Part I
May 20th	May Chapter Meeting: Project Lead-The-Way Judging at Lincoln Park Academy 5:30 PM
May 22nd	FES Golf Tournament at Legacy Golf Club Funds raised go to the White & England Scholarships
May 25th	Lunch & Learn Webinar: Find the Job You Want in this Turbulent Economy Part II
June 11-12th	FES Leadership Conference The Shores Resort and Spa, Daytona Beach
August 4-7th	Changes in Latitude, Changes in Attitude— The Changing Business of Engineering FES Annual Summer Conference Marco Island Marriott, Marco Island

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May Meeting at a Glance...

Who: Lincoln Park Academy Students
What: Project Lead the Way Judging
Where: Lincoln Park Academy
1806 Ave I
Fort Pierce, FL 34950-6099
When: Thursday, May 20th
From 5:30~8PM
Cost: **FREE!!! HELP THE KIDDIES!!**
RSVP: Steve Gaydosh, P.E. on or before May 19 by 5 PM @
STEVE.GAYDOSH@CARNAHAN-PROCTOR.COM

...continued from previous page:

On a somewhat sad note, Past President Jon Murray is leaving the Treasure Coast area. Jon is moving back north to accept a challenging position in Water & Sewer Engineering with a firm in St. Louis. Jon served as President during the 2008-2009 term and he did an outstanding job. Jon has been a big help to me over the last year and I know his many friends in the Chapter will miss him. I also know that all our members wish Jon well with this career and life change.

Paul Bangs, P.E.; Chapter President

ENGINEERING JOKES OF THE MONTH

Astronaut Anxiety

An astronaut in space in 1970 was asked by a reporter, "How do you feel?"
"How would you feel," the astronaut replied, "if you were stuck here, on top of 20,000 parts each one supplied by the lowest engineering bidder?"

Half Glass of Scotch

There is a half glass of scotch on a table.
The Arts student says that it symbolizes unfulfilled emotions.
The Science student starts calculating the exact percentage full.
The Engineering student goes up to the glass, drinks the scotch and asks, "What's the question?"

COMMITTEE CHAIRS

FES is a member driven organization. Our volunteers steer the Society in the best direction. Ideas and programs are created at the committee level and impact the organization at each level. Becoming part of a FES committee is very simple and rewarding.

We have several new volunteers, however, we still need a few more. For further details on a specific committee, or if you are interested in volunteering for any of these committees, please contact Paul Bangs at (772) 463-2848 or pibangs@bellsouth.net.

In addition, please thank your fellow members who are volunteering their time to make a difference.

COMMITTEE CHAIRPERSONS

- Annual Meeting Steering – Jen Porter, P.E.
- Awards – Craig Dunkelberger, P.E.
- Charter & Bylaws – Adam Schildmeier, P.E.
- Communications Advisory – Jennifer Grissom, PE
- Conservation & Env. Quality – Richard Creech, P.E.
- Constructed Environment – Allen Bottorff, P.E.
- Energy – Bill Thiess, P.E.
- Ethical Practices – Melissa Corbett, P.E.
- Golf Tournament – Pat Ferland, P.E.
- K-12 Education – Jen Porter, P.E.
- K-12 Education co-chair – Sarah Henke, E.I.
- K-12 Education co-chair – Adam Schildmeier, P.E.
- Leadership Advisory – David Andre, P.E.
- MathCOUNTS – Kelly Cranford, P.E.
- MathCOUNTS – Chad Rucks, P.E.
- Membership Development – Pat Ferland, P.E.
- Philanthropy – Will Cornelius, P.E.
- Prof. Concerns – Allen Bottorff, P.E.
- Prof. Development – Marcos Montes De Oca, P.E.
- Project LTW Co-Chair—David Andre, P.E.
- Project LTW Co-Chair - Steve Gaydosh, P.E.
- Scholarship Co-Chair – Paul Bangs, P.E.
- Scholarship Co-Chair - Sue Zheng, PE, Phd
- Student Prof. Development – Sean Donahue, P.E.
- Webmaster - Jon Murray/Adam Schildmeier

CHAPTER LIAISON REPRESENTATIVES

- Engineers in Government - Kelly Cranford, P.E.
- Engineers in Construction - Paul Bangs, P.E.
- Engineers in Education - Jen Porter, P.E.
- Engineers in Industry - Marcos Montes De Oca, P.E.

MATHCOUNTS PROBLEM OF THE MONTH:

How many ounces of pure water must be added to 30 ounces of a 30% solution of acid to yield a solution that is 20% acid? Can't figure it out? Find the Answer on Page 8!

SCHOLARSHIP AWARD WINNERS

Last month the Treasure Coast Chapter of FES awarded **SEVEN (7)** Scholarships to local High School Students that exemplified the principles and character of our fellow members that the scholarships are named after.



Walter B. England III, P.E. and Ray H. White, Jr., P.E. Memorial Scholarships

Daniel Rosenberg - Jensen Beach High School

Marcus A. Goudreau - Martin County High School

Lindsey A. Grinels - Martin County High School (Not Pictured)

John E. Donahue, P.E. Memorial Scholarships

Trevor A. Howard -
Treasure Coast High School

Robert L. Preston -
Port Saint Lucie High School

Ashley N. Khan -
Treasure Coast High School

Gerald Condon -
Lincoln Park Academy





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society



National Society of
Professional Engineers®

TREASURE COAST CHAPTER FLORIDA ENGINEERING SOCIETY

24th Annual Golf Tournament

SATURDAY, May 22nd, 2010

4 - Player Scramble

At the prestigious Legacy Golf & Tennis Club!!!

to Benefit:

MATHCOUNTS

SCHOLARSHIP FUNDS

PROJECT LEAD-THE-WAY

When: Saturday, May 22, 2010
8:00 am Shotgun Start
(7:00 am Registration)

Prizes: 1st, 2nd, 3rd Place Low Net
1st Place Low Gross
Longest Drive
Closest to Pin

Where: Legacy Golf & Tennis Club

9000 Clubhouse Drive
Port St. Lucie, FL 34986

Cost: \$90 per person (includes banquet)
\$20 to attend banquet only

Raffle: Fabulous Prizes including foursomes
at various local golf courses

As always, refreshments on the course are free!!

For more information, contact Pat Ferland at 772.464-3537x113 or pferland@ct-eng.com

Deadline for entries and banquet reservations: May 17, 2010

ALL PROCEEDS TO BENEFIT THE FOLLOWING PROGRAMS

MATHCOUNTS is a nationwide program that combines the efforts of education, business, government and the technological community to promote math excellence among junior high school students. The program builds skills, promotes strategic problem solving and drills students in dealing with complex problems and hard-to-handle numbers, all a critical part of our technological society. Each year the Treasure Coast Chapter of the Florida Engineering Society conducts one of many local/regional MATHCOUNTS competitions. To fund this competition our Chapter needs support from businesses and industry within the community. By supporting MATHCOUNTS you will be helping to tackle a vital national issue - improving the math and science abilities of our youth.

Scholarship Funds have the responsibility of helping local high school seniors and community college graduates looking for ways to help finance their college engineering education, apply for one of over 200 scholarships and grants available from the National Society of Professional Engineers and the Florida Engineering Society. Scholarships are available for specific colleges of engineering. NSPE/FES awards scholarships and grants ranging from \$1,000 for one year to full tuition for four years. A local scholarship fund has been formed by the Treasure Coast Chapter that will provide scholarships to local students who are not selected for the limited number of scholarships available from NSPE/FES.

Project Lead-the-Way (PLTW) is a four-month long program, which partners local public and private sector engineers with students enrolled in Fort Pierce's Lincoln Park Academy. The engineers and the school's administrators, along with the engineering instructor, develop an engineering project that the students must research, plan and design. Final project designs are then judged by a FES engineering panel in a "science fair-like" atmosphere.

Mail or fax this form by **May 17, 2010** to the address below.

Team Sign-Up

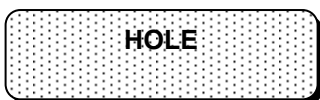
Team Name: _____

	Name	Handicap	Phone
1.			
2.			
3.			
4.			

Team Name: _____

	Name	Handicap	Phone
1.			
2.			
3.			
4.			

Hole Sponsorship



\$150



\$200



\$200

Fill in the following information for the sponsor signs:

Company or Sponsor Name: _____

Type of Business: _____

Contact and Payment

Contact Name: _____

Address: _____

Phone #: _____ Email Address: _____

Tax Deductible donation to Fla. Engineering Foundation \$ _____

Number of Golfers _____ x \$90/golfer = \$ _____

Banquet Only _____ x \$20/person = \$ _____

Hole Sponsor _____ x \$150 = \$ _____

Longest Drive Sponsor _____ x \$200 = \$ _____

Closest to Pin Sponsor _____ x \$200 = \$ _____

TOTAL DUE = \$ _____

Mail or fax this form and mail check (payable to Florida Engineering Foundation) to:

Pat Ferland c/o Culpepper & Terpening, Inc. 2980 S. 25th Street, Fort Pierce, FL 34981

Phone: 772.464-3537 x113 Fax: 772.464-9497 email: pferland@ct-eng.com

ENTRIES DUE MAY 17, 2010



Membership News

Membership applications, tools, and additional information is available at www.fleng.org/membertools.cfm or contact the Member Services Department at 850-224-7121

Sign up now for 2010-2011 FES State Committees!

Strong committees are critical to the success of our organization and they offer our members an opportunity for meaningful involvement in the betterment of our profession. We need your support now. If you are interested in serving on a State committee please notify your Chapter President-elect/Vice President so they can nominate you to participate. Thank you for your commitment.

For information on available committees visit www.fleng.org/committees.cfm. If you have questions on committee participation please contact Anne Wilson at FES Headquarters at 850.224.7121 or awilson@fleng.org.

Society Program and Events

2010 FES Leadership Conference - Discover the Treasure of Leadership

June 11-12, 2010 | The Shores Resort & Spa, Daytona Beach, FL

The 2010 Leadership Advisory Committee has set sail on a program guaranteed to prepare chapter leaders for success. The two-day program is full of golden opportunities to reach the new leader, emerging leader and the seasoned. Don't miss out on this adventure to Discover the Treasure of Leadership.

Who Should Attend?

FES current and future leaders, chapter officers, members in line for chapter officer position, and anyone wishing to enhance their overall leadership skills, whether an Engineering Intern (EI), student of engineering or a Professional Engineer (PE). It is strongly encouraged that the incoming president or new officer positions at the chapter level attend the conference.

Keynote Speaker – Nathaniel Glover, Jr, former Jacksonville Sheriff

Nathaniel Glover, Jr. made history by being elected the first African American Sheriff in Florida in more than 100 years. He served two terms and retired from the Jacksonville Sheriff's Office in June 2003. His career has taken him down a strong path of leadership, training and mentoring students of all levels. Sheriff Glover's law enforcement career started as an investigator then promoted to Sergeant to head of the Police Hostage Negotiation Team and then served as the Director of Police Services. The ability to make decisions, lead staff, and departments during these roles was the key to their success.

Changes in Latitudes, Changes in Attitudes: The Changing Business of Engineering

The Annual Conference Steering Committee, chaired by Jennifer Porter, PE, and Mande Brandt, PE, are pleased to announce the theme for the upcoming FES/FICE 94th Annual Summer Conference & Exposition:

"Changes in Latitudes, Changes in Attitudes: The Changing Business of Engineering". This theme was selected to help recognize the changes in the business of engineering and to promote the profession. In addition to offering technical educational sessions, the conference will explore opportunities for engineers to partner with our educators to prepare our students for careers in engineering.

Mark your calendars for August 4-7, 2010... Set your compasses for 26° North Latitude, your attitudes for change and your GPS for Marriott Marco Island. Saturday Night will take on a magical, mystical and alluring ambience with our "Caribbean Night" Informal Dinner. Since there is no dressing up for the Annual Summer Conference, bring your flip flops and tropical attire for the conference of a lifetime! Let's put the fun back into learning!

FES K-12 Announcement:

The Florida Engineering Society K-12 Committee is pleased to present a new awards program designed to acknowledge individuals who endeavor to introduce engineering to K-12 students. The following two awards have been developed:

- **K-12 Engineer Volunteer of the Year** – recognizes the FES member who has volunteered his or her time to introduce engineering and technology concepts and activities to K-12 students.
- **K-12 Teacher of the Year for Engineering** – recognizes a K-12 teacher who creatively incorporates or promotes engineering and technology concepts and activities in his or her lessons in the classroom.

Award applications are available on the FES website at www.fleng.org/k-12. Deadline is May 15, 2010

THE LEUKEMIA & LYMPHOMA SOCIETY (LLS) is the world's largest voluntary health organization dedicated to funding blood cancer research, education, and patient services. LLS's mission: Cure leukemia, lymphoma, Hodgkin's disease, and myeloma, and improve the quality of life of patients and their families.

In support of the LLS's mission, Treasure Coast FES member Jennifer Porter, P.E. is training for a 100-mile bike ride as part of the LLS's Team in Training program. Jen has committed to raising \$5,000 during the five-month training period, which will support research, as well as the patients, families, and programs on the Treasure Coast and in the Palm Beach area. By taking part in such an endeavor, Jen also hopes to raise awareness about blood-related cancers.



The LLS relies on the support of individuals, corporations, and foundations to fund LLS's research initiatives, patient services, and education programs. Every four minutes, someone in the United States is diagnosed with a blood cancer, and every ten minutes someone dies. These are statistics that Jen wants to help change. If you would like to help, please visit:

<http://pages.teamintraining.org/pb/ambbr10/jporter6ef>



PHILANTHROPY COMMITTEE

Are you involved with a local charitable organization that is looking for help? Would you like to partner with your fellow chapter members to give back to our community? Please contact Will Cornelius, P.E. at WCornelius@Ardaman.com for additional information.



Professional Development Hours (PDHs)

Date	Event	Location	PDHs	Cost
At Your Pleasure	Project Management	Online/DVD	4 PDHs	\$125 FES/FICE Members, \$225 All Others For more information visit http://www.fleng.org/distancelearning.cfm
May 18th 12-1:30PM May 25th 12-1:30PM	Lunch & Learn Webinar: Find the Job You Want in this Turbulent Economy Part I & II	Online	None	\$49/69 FES/FICE Members, \$69/89 All Others After May 10th, \$20 Late Fee For more information visit http://www.fleng.org/seminars.cfm?event_id=444
At Your Pleasure	Florida Laws and Rules	Online/DVD	4 PDHs	\$89 FES/FICE Members, \$119 All Others For more information visit http://www.fleng.org/distancelearning.cfm

<http://www.fleng.org/seminars.cfm>



Please visit our website!

<http://old.fleng.org/treasurecoast/>

**Send your comments and suggestions
about our website to
aschildmeier@creechinc.com**

Questions or Comments?

If you have any questions/comments, or if you would like something included in the monthly publication, please contact Adam Schildmeier at (772) 283-1413 or aschildmeier@creechinc.com

2009 — 2010 Treasure Coast Chapter Board Members

Paul J. Bangs, P.E., President (772) 463-2848 pjbangs@bellsouth.net
 Stephen A. Gaydosh, P.E., Vice President (772) 446-6082 SAGENGR@HCONTROL.COM
 Noah A. Handley, P.E., Treasurer (863) 763-8999 noah.handley@aecom.com
 Adam Schildmeier, P.E., Secretary (772) 283-1413 aschildmeier@creechinc.com
 Pat Ferland, P.E., Regional Vice President (772) 464-3537 pferland@ct-eng.com
 Jonathan Murray, P.E. Past-President (417) 496-4453 murrayjw1190@gmail.com
 David Andre, P.E., State Director (772) 807-9191 dandre@aaceinc.com

TREASURE COAST CHAPTER
Chartered 1987
FLORIDA ENGINEERING SOCIETY
Affiliated with



MATCHPOINTS POTM SOLUTION: If a solution is made up of 30% acid it means that for every ounce of the solution, 0.3 ounces are acid. Therefore, there are 0.3 x 30 = 9 ounces of acid and 21 ounces of water in the solution. Let x = the number of ounces of water we need to add to make a 20% solution of acid (i.e., an 80% solution of water).