

# ENVISION

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**FES/ASCE/SAME  
JOINT ENGINEERS LUNCHEON  
TUESDAY, JANUARY 11, 2000**

Time: Registration – 11:30 AM  
Luncheon – 12:00 N  
Program – 12:30 PM

Location: Ramada Inn Mandarin  
Corner I-295 & San Jose Blvd. (SR13)

Topic: Indoor Air Quality and You

Speaker: Raymond E. Patenaude, PE

Host: FES

Cost: \$12.00 per person at the door

Reservation/Cancellations must be received no later than Friday, January 7, 2000. *No shows will be invoiced for the cost of the meal.* Reservations should be made by calling Debbie Hall at Ellis and Associates, Inc. – phone: 904-880-0960.

**About the Speaker:**

Raymond E. Patinaude, PE, is a registered Professional Engineer specializing in energy management and indoor air quality. Mr. Patinaude is a Civil Engineer by degree but is licensed as a Mechanical Engineer. He has been a Consulting Engineer for over twenty-three years involved with the analysis, design and construction of building heating, ventilation and air conditioning equipment and systems. Mr. Patenaude is active within the Technical Professional Societies currently serving as

Vice President and member of the board of Directors for the American Society of Heating Ventilating and Air Conditioning Engineers, Inc. In addition, he is also active with the Association of Energy Engineers, a Board member of the Certified Indoor Air Quality Professionals and a Certified Energy Manager. Mr. Patenaude has designed, built, retrofitted and analyzed over 1,500 buildings including commercial, institutional and industrial facilities. Presently he is employed with TECO Energy in the capacity of Senior Consulting Engineer working on energy and indoor air quality related projects.

**About the Topic:**

Indoor air and energy reductions in buildings have combined to present a challenge to designers, owners and facilities operators in achieving both. But is IAQ really a problem in Florida? This lecture addresses the real challenges and issues to occupants of engineered environments. An overview of the IAQ process is provided including practical design examples. In addition, the most recent research and development on an integrated humidity control system is presented.

**ENGINEERS WEEK NOTICE**

See the full-page schedule for Engineers Week on page four of this newsletter. Further details on specific events can be obtained by calling the contact persons listed or George Knecht at 904-665-4426. You are encouraged to make copies for others. Also, be sure to sign up for the Lizard Kings – Tiger Sharks game. The notice is on page six, which can be copied and posted on bulletin boards.



### COMING EVENTS

(Further details in this issue or future issues)

<u>DATE</u>	<u>HOST</u>	<u>TOPIC</u>
Jan. 26, 2000	4:30P FES Ex. Comm. Mtg.	
Feb. 16, 2000	4:30P FES Ex. Comm. Mtg.	
Feb. 18, 2000	ASCE	E Week Kickoff
Feb. 18 – 26, 2000	Engineers Week	
Feb. 26, 2000	Engineers Week Banquet	
Mar. 21, 2000	SAME	Joint Luncheon
Mar. 29, 2000	4:30P FES Ex. Comm. Mtg.	
Apr. 18, 2000	ASCE	Joint Luncheon
Apr. 19, 2000	4:30P FES Ex. Comm. Mtg.	

### EXECUTIVE COMMITTEE MEETINGS

The next Executive Committee meeting will be held at 4:30 P. M. Wednesday, January 26, 2000 in the offices of Law Engineering, 3901 Carmichael Ave. All members are welcome to attend. Time and place of future meetings will be in future issues. The board encourages the participation of members in the activities of the chapter. Please review the list of committees at the end of this newsletter and call a chairperson to offer your help.

### SUMMARY OF JOINT FES – ASCE – ASME NOVEMBER 16, 1999 LUNCHEON

There were about 70 in attendance. The meeting was opened by Darrell Setser and announcements were made by the respective organizations – including announcing the highly regarded Thanksgiving Food Drive. The subject of the program was Emergency Management, which is a part of Fire and Rescue. The main focus of the presentation related to emergency situations resulting from hurricanes, with specific references to Hurricane Floyd. The speaker was Andy Sykes.

It was pointed out that about 200,000 can be effected in this vicinity from the results of hurricanes, due to storm surge which can go up stream on the St John's River as far as 20 miles. Of major concern is evacuating the beaches, since there are only three high rise bridges. Although hurricane evacuations have been quite successful in the past, work is continuing to improve cooperation between counties. A significant problem is the lack of adequate shelters in some areas. An effort is being made to up grade schools serving as shelters so they will be capable of withstanding severe storms. In choosing schools for shelters, they try to select those easily accessed from the interstates. The state is trying to find funding to help make the necessary improvements. There are some places in the state where it is almost impossible to avoid being in a storm surge area. There are mutual help

agreements with other counties that are reviewed annually. A major evacuation bottleneck is I-10. It is the only interstate in the state that goes west and merges with I-75, the only inland north/south route. Another bottleneck is the merge of I-10 and I-295.

After an emergency, damage assessment needs to be done before evacuees can return to their homes. Significant problems arise when citizens become anxious to return home before damage assessment teams have had an opportunity to make their evaluation.

As a result of questions, the feasibility and implications of making I-10 one way for return was reviewed. A significant problem arises in trying to route on and off traffic at the interchanges. A task force has been created to study this matter. A close relationship with the media needs to exist in order to get messages out via TV, radio. The luncheon adjourned at 1:20 PM.

### ANNUAL CHRISTMAS PARTY And LIFE MEMBERSHIP AWARDS

The FES chapter annual Christmas party was held at Deerwood Country Club December 1, 1999 with about 50 in attendance. President John Ellis, II (L) presented Life



Memberships to Jim Williamson, P. E. and John Ellis, P. E. (R), that were awarded by the Florida Engineering Society. The criteria for becoming a Life Member are very stringent so this is a very prestigious award. Special congratulations to these fine gentlemen.

A new approach for handling gifts was instituted. In addition to exchange gifts, those attending were asked to bring a gift appropriate for 8-16 year old. The Jacksonville University Student Chapter is working with a group of troubled youth and they will use the gifts as part of their effort to help. Some in attendance also donated their exchange gift to that effort. With more time to plan for next year, it is hoped that this arrangement can be improved upon for next year. See a selection of pictures taken at the party on page 5.



### MILESTONE ANNOUNCEMENT

Needed: volunteers to help with the MATHCOUNTS Tournament. To offer your help and for more details, such as dates and places, call MATHCOUNTS Chairmen Terry Hull, PE or Ken Craig, PE at 904-731-7040. This is a great opportunity to work with some outstanding young people.

### PROFESSIONAL ENGINEERING REFRESHER COURSE – PART II

If you are interested in taking Part II of the Professional Engineering Refresher Course, please see the application form which is the last sheet of this newsletter. It tells: what it is; what is covered; when and where classes will be held; about registration information and who the contact person is for further details. Don't miss this great opportunity.

### 1999-2000 FES NORTHEAST CHAPTER

#### CHAPTER OFFICERS

President	John E. Ellis, II, PE	W 904-880-0960 F 904-880-0970
Pres. Elect	Suzanne LeViseur, PE	W 904-246-0081 F 904-246-6288
Treasurer	Bob Kosoy, PE	W 904-247-5834 F 904-247-5843
Secretary	David Peigler, PE	W 904-367-8683 F 904-733-6621
State Dir.	Ken Loefgren, PE	W 904-396-5173 F 904-396-7503
FES TALLAHASSEE OFFICE		P 800-277-0086 P 850-224-7121

#### COMMITTEE CHAIRPERSONS

Activities	Mark Mechling, PE	W 904-880-0960 F 904-880-0970
Adopt-A-School	Andy Cummings, PE	W 904-249-7995 F 904-241-1126
Awards	Allan Boree, PE	W 904-279-2312 F 904-279-2491
Communications	Dan Holmes, PE	H 904-287-9750 F (phone first)
Conservation & Environmental Quality		W 904- F 904-
Directory/Hist.		
	Don Ditzenberger, PE	H 904-743-6946
Ethics	Bruce Taylor, Ph.D., PE	W 904-731-7040 F 904-731-9847

#### EIT/PE Refresher Course

	Eric Hendra, PE	W 904-367-8683 F 904-733-6621
	Bruce Myhre, PE	W 904-367-8683 F 904-733-6621
Engineers Week	Ken Loefgren, PE	W 904-396-5173 F 904-396-5703
Habijax	Tamara Henderson	W 904-724-3546 F 904-724-9463
MATHCOUNTS	Terry Hull, PE	W 904-731-7040 F 904-731-9847
	Ken Craig, PE	W 904-731-7040 F 904-731-9847
Membership	Mike Hersey, PE	W 904-743-6950 F 904-744-6267
Project CREATE		W 904- F 904-
Scholarship	Doug Davis, EI	W 904-262-9991 F 904-262-9996
Student Professional Development	James Horton, PE	W 904-396-5173 F 904-396-5703

#### PRACTICE SECTION LIAISON

Professional Engineers in Government	George Knecht, PE	W 904-665-4426 F 904-665-7368
Engineers in Education		W 904- F 904-
Engineers in Industry	Gene Tonn, PE	W 904-798-5662 F 904-798-5700
FEC	Keith Kirwan, PE	W 904-786-1120 F 904-783-2970
Institute of Consulting Engineers	Frank Wilson, PE	W 904-398-8636 F 904-398-2968

#### STUDENT CHAPTER REPRESENTATIVES

Jacksonville University	Dan Arnett	W 904-745-2076 F 904-745-7582
Univ. of North Florida	Matt Little	W 904-620-3880 F 904-620-2975



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# 2000 ENGINEER'S WEEK PROGRAM SCHEDULE

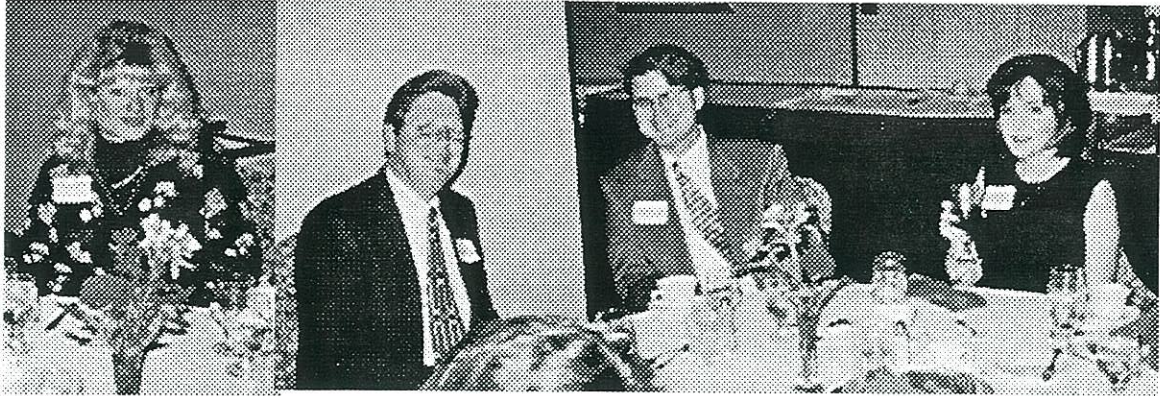
*"Turning Ideas into Reality"*

Schedule to be Announced	Thursday February 17, 2000	Friday February 18, 2000	Saturday February 19, 2000
ASPE - Contact Jim Williams - 737-5700 ASME - Contact Carlos Rollan - 236-2286	Time?? NSBE - Engineering Career Day at Rames High School	ASCE - Kick off Luncheon UFH University Center Speaker: Neal S. Coulter, Dean, College of Engineering Science and Engineering Mayor's Proclamation Scholarship Presentation Cost: \$0.00 Contact Andy Cummings - 249-7895	10:00 AM to 2:00 PM NSBE - "Engineers Go Public" Gateway Mall Contact Kim Brock's Hall - 232-3155
Monday February 21, 2000	Tuesday February 22, 2000	Wednesday February 23, 2000	Thursday February 24, 2000
11:00 AM - 5:00 PM Scholarship Fund Golf Outing - Crestview Country Club See website for costs Contact Ron Lasfargen - 265-5173	Noon to 1:30 PM SAME/ASHRAE Luncheon Speaker: Randy Knott Moving the Vapo Halteres Activities - Ramada Inn Mandarin - Cost \$12 Contact Anne Free - 232-2414 or Eric Lentz	Noon to 1:00 PM APWA Luncheon Speaker: Adams Park Hotel Tour of the hotel construction Immediately following lunch - Location - Cost: \$22 Contact George Knecht - 585-4426	8:30 AM to 1:00 PM ASHE Topic: Cost: \$22 Contact Will Kirk - 279-2189
	5:30 PM to 7:30 PM SWE Membership Social Happy Hour River City Brewing Company Contact Danielle Bell - 279-2137	11:30 to 1:15 PM SMPS Luncheon Speaker: Kathy Thomas, P.E. District 2 Consultant Program Manager - University Club - Cost: \$22 Contact Erika Bigik - 249-7985	6:30 PM to 8:00 PM ACI Dinner Meeting Speaker: Topic: Location: Cost: \$22 Contact Kerry Olds - 394-5173
		12:00 Kings Hockey Game Cost \$7.00 Contact John Stewart - 886-3045	
Monday February 21, 2000	Tuesday February 22, 2000	Wednesday February 23, 2000	Thursday February 24, 2000
11:00 AM - 3:00 PM Industrial Exhibition - University of North Florida - No Cost, Free Parking Contact Syed Islam - 625-2976	8:00 PM - 9:00 PM Engineer's Week Awards Banquet - Hidden Hills Country Club Speaker: Cost: \$22 Contact Danielle Bell 399-3300 or Anne Free 232-2414		

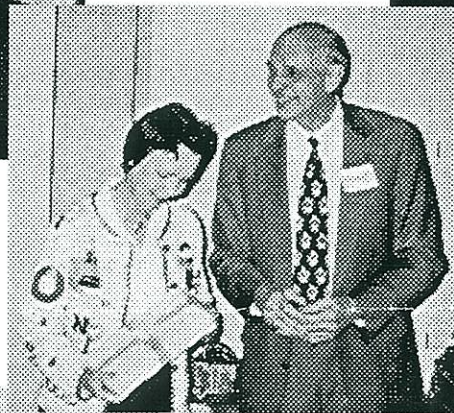
Note: Please call sponsoring organization for reservations are required

Updated 12/1/99 8:44 AM





DECEMBER 1999



CHRISTMAS PARTY







**AN E-WEEK SPECIAL EVENT!**

**ENGINEERS TEAM UP  
WITH THE  
JACKSONVILLE LIZARD KINGS!**



**LIZARD KINGS VS. TIGER SHARKS**

- WHO:** YOU AND YOUR FAMILY
- WHEN:** FEBRUARY 23, 2000
- WHERE:** JACKSONVILLE COLISEUM
- WHAT:** GROUP SEATING, SPECIAL RECOGNITION OVER PA, CHALK TALK SESSION WITH COACH ALAINE LEMIEUX, MASCOT VISITATION, PUCK DROP BY AN E-WEEK ATTENDEE, AND SPECIAL DRAWINGS FOR A LIZARD KINGS JERSEY AND STICK. EVERYONE ATTENDING WILL RECEIVE A GENUINE LIZARD KINGS PUCK!
- COST:** \$7 PER PERSON

**CONFIRM YOUR RESERVATIONS WITH  
JOHN STEWART AT (904) 996-3045 OR BY EMAIL [jstewart@redi.net](mailto:jstewart@redi.net)**





**florida  
engineering  
society** - Northeast Chapter

**PROFESSIONAL ENGINEERING REFRESHER COURSE  
PART II - SPRING 2000**

Part I of the Engineering Refresher Course, the Engineer-in-Training Refresher, is offered in the fall, covers fundamental theory and is designed to aid with Part I of the State Board Exam. Part II, the Professional Engineering Refresher, covers Principles and Practices of Engineering, and is designed to aid with Part II of the State Board Exam.

Part II of the 2000 Annual Professional Engineer's Refresher Course is scheduled to begin late February. Separate Civil and Mechanical refresher courses are being offered. The spring State Board P.E. Exam is scheduled for April 14, 2000. You must have already completed your application process to sit for the April exam. For application forms and additional information on requirements for professional registration contact the Florida Department of Business and Professional Regulation, Board of Professional Engineers at (850) 521-0500. [www.fbpe.org](http://www.fbpe.org)

An Electrical Engineering Refresher Course, sponsored by IEEE, may also be offered. Contact Dr. Y.A. Alsaka at (904) 620-2970 for additional information.

Classes for the Civil Engineering and Mechanical Engineering Refresher Courses will be held on Tuesday and Thursday nights from 6:30 p.m. to 9:30 p.m. beginning February 29, 2000. Other nights and times may be utilized where more classes or more class hours per week are

required. Classes will be held at Englewood High School, 4412 Barnes Road, Jacksonville, Florida (north and east of I-95 and University Blvd.).

**Registration for the Civil and Mechanical Engineering Refreshers will be held from 5:00 p.m. to 6:30 p.m. on Tuesday, February 15, 2000 at the office of PBS&J Inc., 7785 Baymeadows Way, Suite 202, Jacksonville, Florida, 32256. Please complete the accompanying application and bring it to the registration session. Pre-registration applications may be faxed to (904) 733-6621 or email to [ejhendra@pbsj.com](mailto:ejhendra@pbsj.com).**

The tuition fee for either the Civil or Mechanical Engineering Refresher Course is \$200.00. Reference Manuals and Solutions Manuals for the Civil PE and Mechanical PE Refreshers will be available for purchase at the time of registration. All checks are to be made payable to the **Florida Engineering Society**. Purchase orders from local employers will also be accepted. Anyone registering after February 15, 2000, may be charged an additional \$15.00 late fee.

Contact Eric Hendra, P.E. ext. 33 ([ejhendra@pbsj.com](mailto:ejhendra@pbsj.com)) or Bruce Myhre, P.E. ext. 28 ([bemvhre@pbsj.com](mailto:bemvhre@pbsj.com)) at (904) 367-8683 if you have questions concerning the E.I.T or P.E. Refresher Courses.

**REFRESHER COURSE  
REGISTRATION FORM**

NAME			
HOME ADDRESS			
CITY	STATE	ZIP	
HOME PHONE	HOME FAX		
COMPANY			
WORK ADDRESS			
CITY	STATE	ZIP	
WORK PHONE	WORK FAX		
EMAIL ADDRESS(ES)			

**FEES (please check)**

**BOOKS (please check)**

<input type="checkbox"/>	Civil Engineering Refresher Tuition	\$ 200.00	<input type="checkbox"/>	Civil Eng. Reference Manual, 7 <sup>th</sup> Edition	\$ 89.95
<input type="checkbox"/>	Mechanical Engineering Refresher Tuition	\$ 200.00	<input type="checkbox"/>	Civil Eng. Practice Problems, 7 <sup>th</sup> Edition	\$ 23.95
<input type="checkbox"/>	Late Fee (if applicable)	\$ 15.00	<input type="checkbox"/>	Mechanical Eng. Reference Manual, 10 <sup>th</sup> Edition	\$ 79.95
<input type="checkbox"/>			<input type="checkbox"/>	Mechanical Eng. Solutions Manual, 10 <sup>th</sup> Edition	\$ 24.95
<input type="checkbox"/>	TOTAL FEES	\$	<input type="checkbox"/>	TOTAL BOOKS	\$
<input type="checkbox"/>	TOTAL BOOKS & FEES \$				



# ENVISION

## **ENGINEERS WEEK**

**Thursday, February 17, 2000 – Saturday, February 26, 2000**

**See complete schedule and registration forms on the following pages**

NSBE Engineering Career Day at Raines High School  
ACI – “Concrete Admixtures”  
ASCE – Kickoff Luncheon – Mayors Proclamation & Presentations  
NSBE “Engineers go Public” – Gateway Mall  
Scholarship Fund Golf Outing – Orange Park Country Club  
SAME/ASHRAE Luncheon – “Moving Cape Hatteras Lighthouse”  
APWA Luncheon – Subject – “Adams Mark Hotel” and tour  
SMPS Luncheon –  
Lizard Kings Hockey Game  
ASHE/ITE – Traffic Congestion  
IEEE – Seminar – Lightning Protection Systems  
JETS Team Competition  
AWARDS BANQUET - HIDDEN HILLS COUNTRY CLUB

### **Business Journal**

**Serving Jacksonville and Northeast Florida**

Space Close for Ads is Wednesday, February 2, 2000

See details on page 9

### **ENGINEERS WEEK NOTICE**

See the full-page master program schedule for Engineers Week on page 4. Registration forms for The National Engineers Week 2000 Golf Outing, Engineers Week 2000 Kickoff Lunch, and the Engineers Week 2000 Awards Banquet are on the pages that follow. Further details on specific events can be obtained by calling the contact persons listed on the master program schedule. You are encouraged to make copies for distribution to others and for posting on bulletin boards. Please note reservation requirements and restrictions.



## REPORT OF JANUARY 11 LUNCHEON

The meeting was opened by FES Chapter President, John Ellis, II who then led the pledge to the flag and gave the invocation. The respective societies made announcements, many of which dealt with the coming of Engineers Week as well as the availability of scholarships, the PE Refresher Course, MATHCOUNTS, and other coming activities. The speaker, Mr. Raymond E. Patenaude, PE, was introduced by FES Chapter President Elect, Suzanne LeViseur, PE.

The speaker explained ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers) which is an international organization. He observed that about 90% of our time is spent in a controlled environment which makes good quality air important. The difference between a building related illness and a "sick building" was explained. A building related sickness is when one feels OK before going to work, feels sick at work, goes home and is OK. A sick building is one that makes one sick and stay sick due to some building related problem. IAQ (indoor air quality) standards were discussed, as were pollutants, ventilation, multiple chemical sensitivity, hypersensitivity and general building air quality.

Mr. Patenaude provided an overview of the history of design and building air control equipment, pointing out the struggle to maintain low installation and operating cost vs. providing an abundant supply of healthful, quality air. He named and provided details about many items that contribute to air pollution such as high-density office environments, pollutants from FAX machines and copy machines. Equipment such as that can give off particles that can float in the air for years. Furniture that contains glue and formaldehyde, and carpets that stay wet or hold dirt where microbes and mites can live, are notorious sources of pollution. He also pointed out problems that can be generated due to poor "after hours" air control. Filter theory was presented and the better designs explained and recommended. The tendency to downplay complaints is also a problem.

Standards relating to this field were cited and described. To substantiate the need for better air quality, the speaker reported that there has been a 15% increase in asthma, especially in the K-12 age group. It is believed that much

of this is environmentally induced. The effect on other disorders was outlined. He described various kinds of molds that cause problems, when they originate and how they get into our bodies. Most problems are due to moisture. He explained the best sequence of steps to take to remove moisture before conditioning the air. The importance of establishing a good maintenance program was explained and the procedures and recommended standards to follow were cited. The speaker related well to the audience and as a result of questions, several other points were made, such as air quality as a real issue in the top 10% of litigation. He pointed out the increase in TB, Hepatitis A&B, and influenza and the relationship to poor air quality. In conclusion, the speaker pointed out that the financial people need to be sold on the importance of good air quality when evaluating building and maintenance costs for air delivery systems.

The meeting adjourned at 1:45 P. M.

## COMING EVENTS

(Further details in this issue or future issues)

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## MILESTONE ANNOUNCEMENT

Please submit recommendations for candidates for the Northeast Florida Chapter "James F. Shivler, Jr., P.E. Award for Outstanding Service to the Engineering Profession". Contact or submit forms to Awards Committee Chairman Allan Boree, PE. by April 1<sup>st</sup>. Phone 904-279-2312 or send FAX to 904-279-2491.

## PROFESSIONAL ENGINEERING REFRESHER COURSE – PART II

**LAST CALL!!** If you are interested in taking Part II of the Professional Engineering Refresher Course, please see the application form in this newsletter. It tells: what it is; what is covered; when and where classes will be held; about registration information and who the contact person is for further details. Don't miss this great opportunity.

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Pres. Elect	Suzanne LeViseur, PE	W 904-246-0081 F 904-246-6288
Treasurer	Bob Kosoy, PE	W 904-247-5834 F 904-247-5843
Secretary	David Peigler, PE	W 904-367-8683 F 904-733-6621
State Dir.	Ken Loefgren, PE	W 904-396-5173 F 904-396-7503
FES TALLAHASSEE OFFICE		P 800-277-0086 P 850-224-7121

### COMMITTEE CHAIRPERSONS

Activities	Mark Mechling, PE	W 904-880-0960 F 904-880-0970
Adopt-A-School	Andy Cummings, PE	W 904-249-7995 F 904-241-1126
Awards	Allan Boree, PE	W 904-279-2312 F 904-279-2491
Communications	Dan Holmes, PE	H 904-287-9750 F (phone first)
Conservation & Environmental Quality		W 904- F 904-

### Directory/Hist.

	Don Ditzenberger, PE	H 904-743-6946
Ethics	Bruce Taylor, Ph.D., PE	W 904-731-7040 F 904-731-9847
EIT/PE Refresher Course	Eric Hendra, PE	W 904-367-8683 F 904-733-6621
	Bruce Myhre, PE	W 904-367-8683 F 904-733-6621
Engineers Week	Ken Loefgren, PE	W 904-396-5173 F 904-396-5703
Habijax	Tamara Henderson	W 904-724-3546 F 904-724-9463
MATHCOUNTS	Terry Hull, PE	W 904-731-7040 F 904-731-9847
	Ken Craig, PE	W 904-731-7040 F 904-731-9847
Membership	Mike Hersey, PE	W 904-743-6950 F 904-744-6267
Project CREATE		W 904- F 904-
Scholarship	Doug Davis, EI	W 904-262-9991 F 904-262-9996
Student Professional Development	James Horton, PE	W 904-396-5173 F 904-396-5703

### PRACTICE SECTION LIAISON

Professional Engineers in Government	George Knecht, PE	W 904-665-4426 F 904-665-7368
Engineers in Education		W 904- F 904-
Engineers in Industry	Gene Tonn, PE	W 904-798-5662 F 904-798-5700
FEC	Keith Kirwan, PE	W-904-786-1120 F--904-783-2970
Institute of Consulting Engineers	Frank Wilson, PE	W 904-398-8636 F 904-398-2968

### STUDENT CHAPTER REPRESENTATIVES

Jacksonville University	Dan Arnett	W 904-745-2076 F 904-745-7582
Univ. of North Florida	Matt Little	W 904-620-3880 F 904-620-2975

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## **NATIONAL ENGINEERS WEEK 2000 • FEBRUARY 20-26** **GOLF OUTING**

**WHEN:** MONDAY - FEBRUARY 21, 2000  
**WHERE:** ORANGE PARK COUNTRY CLUB (soft spikes only)  
**FORMAT:** 2-MAN CAPTAIN'S CHOICE  
12:30 PM - SHOTGUN START  
**LUNCH:** BOX LUNCH ON GOLF CART  
**PRIZES:** TOP FINISHERS & ON-COURSE CONTESTS  
**WHY:** TO SUPPORT ENGINEERS WEEK COLLEGE SCHOLARSHIPS THAT  
ARE PRESENTED AT THE *ENGINEERS WEEK KICK-OFF LUNCHEON*

### **LEVEL OF SPONSORSHIP (choose one)**

_____ GOLD SPONSOR (\$395)	4 Players with Lunch/Drinks and Range Balls On-Course Recognition
_____ SILVER SPONSOR (\$275)	2 Players with Lunch/Drinks and Range Balls On-Course Recognition
_____ BRONZE SPONSOR (\$95)	1 Player with Lunch/Drinks and Range Balls
_____ HOLE SPONSOR (\$100)	On-Course Recognition Only

### **PLAYER INFORMATION**

A1. NAME _____	TEAM A	HANDICAP _____
A2. NAME _____	TEAM A	HANDICAP _____
B1. NAME _____	TEAM B	HANDICAP _____
B2. NAME _____	TEAM B	HANDICAP _____

### **SPONSOR AUTHORIZATION**

Company Name \_\_\_\_\_

Sponsor's Authorized Signature \_\_\_\_\_

Checks should be made payable to the **Florida Engineering Society** and mailed  
with this registration form prior to February 11 to:

Ken Loeftgren  
Law Engineering  
3901 Carmichael Avenue  
Jacksonville, FL 32207

Phone (904) 396-5173  
FAX (904) 396-5703

Philip G. Hall  
Chairman CH2M HILL  
2000 Honorary Chair  
National Engineers Week  
Leo F. Peters  
President  
The American Consulting  
Engineers Council  
2000 Chair  
National Engineers Week  
National Engineers Week  
Committee  
The American Consulting  
Engineers Council, Chair  
The American Ceramic Society  
American Institute of  
Chemical Engineers  
American Institute of  
Mining, Metallurgical, and  
Petroleum Engineers  
American Society of  
Civil Engineers  
American Society of Heating,  
Refrigerating and Air-Conditioning  
Engineers  
ASME International  
Construction Specifications  
Institute  
IEEE-USA  
Institute of Industrial Engineers  
National Society of Black Engineers  
National Society of Professional  
Engineers, Headquarters  
Society of Automotive  
Engineers, Inc.  
Society of Manufacturing Engineers  
Society of Hispanic Professional  
Engineers  
Society of Women Engineers  
With support from  
Federal Highway Administration  
National Academy of Engineering  
National Aeronautics and  
Space Administration  
National Institute of  
Standards and Technology  
National Science Foundation  
U.S. Air Force —  
Office of the Civil Engineer  
2000 Corporate Affiliates  
CH2M HILL, Chair  
Bechtel Foundation/Elizabeth and  
Stephen Bechtel, Jr. Foundation  
The Boeing Company  
Chevron Corporation  
DaimlerChrysler Corporation Fund  
Eastman Chemical Company  
Eastman Kodak Company  
General Electric Company  
Honeywell Foundation  
IBM International Foundation  
Intel  
Lockheed Martin  
Phillips Petroleum Company  
Raytheon Company  
Rockwell  
3M





*Join us for lunch at the*

## ***ENGINEERS WEEK 2000 KICKOFF LUNCH***

**When:** *Friday, February 18, 2000*

*11:30 AM Registration*

*12:00 PM Mayor's Proclamation*

*12:05 PM Lunch*

*12:30 PM Scholarship Presentations*

*12:50 PM Speaker*

**Where:** *UNF University Center*

*12000 Alumni Drive (off Kernan Blvd.)*

**Speaker:** *Neal Coulter, Ph.D.*

*Dean, College of Computing Sciences and Engineering*

**Cost:** *\$ 15.00 per person*

**Scholarship Presentations by:** *ASHRAE, ASME, SAME, FES,  
ASCE, ASHE, APWA, & E-WEEK  
Committee*

*\*\* Advance Registration Required (no shows will be invoiced) \*\**

*Checks should be made payable to **ASCE**.*

**RESERVATIONS:** *Phyllis Hagan at Law Engineering  
396-5173*





Join us for dinner at the  
**ENGINEERS WEEK 2000 AWARDS BANQUET**

**When:** **Saturday, February 26, 2000**

6:00 Social Hour  
7:00 Dinner  
8:30 Speaker  
9:00 Annual Awards

**Where:** **Hidden Hills Country Club**  
3901 Monument Road

**Speaker:** **Retired General Hank Hatch, P.E.**  
Chief Operating Officer, American Society of Civil Engineers  
Former Chief of the US Army Corps of Engineers

**Cost:** \$ 35.00/person, Cash Bar

**\*\* Advance Registration Required (no shows will be invoiced) \*\***

\* Fax this form by **February 19** to: Kathleen Smith, at Reynolds, Smith & Hills, Inc.  
**Fax#: 279-2491, Tel# 279-2293**  
kathleen.smith@rsandh.com

-----  
**REGISTRATION FORM**

NAME(S): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPANY: \_\_\_\_\_

TEL# \_\_\_\_\_ FAX# \_\_\_\_\_

TOTAL # OF RESERVATIONS: \_\_\_\_\_ TOTAL AMOUNT DUE: \$ \_\_\_\_\_

Checks should be made payable to the **FLORIDA ENGINEERING SOCIETY**.  
Checks will be accepted at the door or mailed with this form prior to Feb. 19 to:

\*\*\*\*\*

Amount Received: \_\_\_\_\_

Date \_\_\_\_\_

Engineers Week Awards Banquet  
c/o Kathleen Smith  
Reynolds, Smith and Hills, Inc.  
4651 Salisbury Road  
Jacksonville FL 32256





AN E-WEEK SPECIAL EVENT!

ENGINEERS TEAM UP  
WITH THE  
JACKSONVILLE LIZARD KINGS!

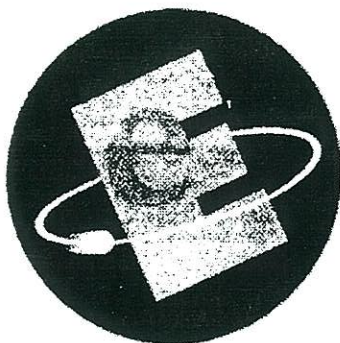


LIZARD KINGS VS. TIGER SHARKS

- WHO: YOU AND YOUR FAMILY
- WHEN: FEBRUARY 23, 2000, 7:00 PM
- WHERE: JACKSONVILLE COLISEUM
- WHAT: GROUP SEATING, SPECIAL RECOGNITION OVER PA, CHALKTALK SESSION WITH COACH ALAINE LEMIEUX, MASCOT VISITATION, PUCK DROP BY AN E-WEEK ATTENDEE, AND SPECIAL DRAWINGS FOR A LIZARD KINGS JERSEY AND STICK. EVERYONE ATTENDING WILL RECEIVE A GENUINE LIZARD KINGS PUCK
- COST: \$7 PER PERSON

CONFIRM YOUR RESERVATIONS WITH  
JOHN STEWART AT (904) 996-3043 OR BY EMAIL [jstewart@radi.net](mailto:jstewart@radi.net)





# ENGINEERS WEEK PROGRAM GUIDE

**ENGINEERS WEEK  
FEBRUARY 18-26 2000**

The program guide will highlight Engineers Week, the different engineering societies and what's the latest news in the industry.

Take this opportunity to share your advertising message with 77,000 First Coast businesspeople and the engineering industry.

## **DISTRIBUTION INCLUDES:**

- At the Engineers Week Kick-off Lunch and the additional seminars throughout the week.
- Additional copies to the Engineering Associations for targeted distribution.
- To all The Business Journal readers on February 18th.

**The kick-off  
Lunch is  
scheduled for  
February 18.  
For more  
information on  
tickets and  
seminar, call  
Andy Cummings  
(904) 249-7995.**

## **BLACK & WHITE AD RATES**

Full Page	10"x13-7/8"	\$2005
1/2 Page	10"x6-7/8"	\$1235
1/4 Page	4-15/16"x6-7/8"	\$790
1/8 Page V	2-3/8"x6-7/8"	\$470
1/8 Page H	4-15/16"x3-3/8"	\$470

## **COLOR RATES**

4 COLOR PROCESS	\$600.00 additional
ONE SPOT COLOR	\$200.00 additional

**ISSUE DATE**  
February 18, 2000

**SPACE CLOSE:**  
February 2, 2000

## **THE BUSINESS JOURNAL** SERVING JACKSONVILLE AND NORTHEAST FLORIDA

☐ Yes, I'm interested in advertising please call me.  
☐ Yes, I'm interested in advertising please use same ad as last year.

NAME \_\_\_\_\_  
COMPANY \_\_\_\_\_  
PHONE \_\_\_\_\_  
FAX \_\_\_\_\_

For more information please contact  
**KIMBERLY WATERHOUSE (904) 396-3502 ext. 210**  
Return by FAX to The Business Journal  
FAX (904) 396-5706





**florida  
engineering  
society** - Northeast Chapter

**PROFESSIONAL ENGINEERING REFRESHER COURSE  
PART II - SPRING 2000**

Part I of the Engineering Refresher Course, the Engineer-in-Training Refresher, is offered in the fall, covers fundamental theory and is designed to aid with Part I of the State Board Exam. Part II, the Professional Engineering Refresher, covers Principles and Practices of Engineering, and is designed to aid with Part II of the State Board Exam.

Part II of the 2000 Annual Professional Engineer's Refresher Course is scheduled to begin late February. Separate Civil and Mechanical refresher courses are being offered. The spring State Board P.E. Exam is scheduled for April 14, 2000. You must have already completed your application process to sit for the April exam. For application forms and additional information on requirements for professional registration contact the Florida Department of Business and Professional Regulation, Board of Professional Engineers at (850) 521-0500. [www.fbpe.org](http://www.fbpe.org)

An Electrical Engineering Refresher Course, sponsored by IEEE, may also be offered. Contact Dr. Y.A. Alsaka at (904) 620-2970 for additional information.

Classes for the Civil Engineering and Mechanical Engineering Refresher Courses will be held on Tuesday and Thursday nights from 6:30 p.m. to 9:30 p.m. beginning February 29, 2000. Other nights and times may be utilized where more classes or more class hours per week are

required. Classes will be held at Englewood High School, 4412 Barnes Road, Jacksonville, Florida (north and east of I-95 and University Blvd.).

**Registration for the Civil and Mechanical Engineering Refreshers will be held from 5:00 p.m. to 6:30 p.m. on Tuesday, February 15, 2000 at the office of PBS&J Inc., 7785 Baymeadows Way, Suite 202, Jacksonville, Florida, 32256. Please complete the accompanying application and bring it to the registration session. Pre-registration applications may be faxed to (904) 733-6621 or email to [ejhendra@pbsj.com](mailto:ejhendra@pbsj.com).**

The tuition fee for either the Civil or Mechanical Engineering Refresher Course is \$200.00. Reference Manuals and Solutions Manuals for the Civil PE and Mechanical PE Refreshers will be available for purchase at the time of registration. All checks are to be made payable to the **Florida Engineering Society**. Purchase orders from local employers will also be accepted. Anyone registering after February 15, 2000, may be charged an additional \$15.00 late fee.

Contact Eric Hendra, P.E. ext. 33 ([ejhendra@pbsj.com](mailto:ejhendra@pbsj.com)) or Bruce Myhre, P.E. ext. 28 ([bemyhre@pbsj.com](mailto:bemyhre@pbsj.com)) at (904) 367-8683 if you have questions concerning the E.I.T or P.E. Refresher Courses.

**REFRESHER COURSE  
REGISTRATION FORM**

NAME			
HOME ADDRESS			
CITY	STATE	ZIP	
HOME PHONE	HOME FAX		
COMPANY			
WORK ADDRESS			
CITY		ZIP	
WORK PHONE	WORK FAX		
EMAIL ADDRESS(ES)			

**FEES (please check)**

Civil Engineering Refresher Tuition	\$ 200.00
Mechanical Engineering Refresher Tuition	\$ 200.00
Late Fee (if applicable)	\$ 15.00
TOTAL FEES	\$

**BOOKS (please check)**

Civil Eng. Reference Manual, 7th Edition	\$ 89.95
Civil Eng. Practice Problems, 7th Edition	\$ 23.95
Mechanical Eng. Reference Manual, 10th Edition	\$ 79.95
Mechanical Eng. Solutions Manual, 10th Edition	\$ 24.95
TOTAL BOOKS	\$

**TOTAL BOOKS & FEES \$**



# ENVISION

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## **FES/ASCE/SAME JOINT LUNCHEON MARCH 21, 2000**

Time: 11:30 AM Registration  
12:00 N Lunch  
12:30 PM Program  
Location: \*Ramada Inn Conference Center  
Mandarin  
Speaker: TBA  
Topic: TBA  
  
Cost: \$12.00  
Host: SAME

Deadline for reservations (or cancelations) is noon Friday, March 17, 2000. Call Debbie Hall at 904-880-0960. Payment may be made at the door. Sorry, "No Shows" will need to be invoiced for the cost of the meals.

\*The Ramada Inn is at 3130 Hartley Road, northeast corner of I-295 & San Jose Blvd. (EXIT 2). Phone 904-268-8080.

## **COMING EVENTS**

(Further details in this issue or future issues)

<u>DATE</u>	<u>HOST</u>	<u>TOPIC</u>
Mar. 21, 2000	SAME	Joint Luncheon
Mar. 25, 2000	Habijax	project
Mar. 29, 2000	4:30P FES Ex.	Comm. Mtg.
Apr. 18, 2000	ASCE	Joint Luncheon
Apr. 19, 2000	4:30P FES Ex.	Comm. Mtg.

## **EXECUTIVE COMMITTEE MEETINGS**

The next Executive Committee meeting will be held at 4:30 P. M. Wednesday, March 29, 2000 in the offices of Law Engineering, 3901 Carmichael Ave. All members are welcome to attend. Time and place of future meetings will be in future issues. The board encourages the participation of members in the activities of the chapter. Please review the list of committees at the end of this newsletter and call a chairperson to offer your help.

## **ROBOTICS COMPETITION**

Jacksonville Urban Systemic Initiative is looking for volunteers to help a local middle school prepare for the upcoming robotics competition at UNF. Each school builds a remote controlled robot, designed to perform specific tasks, from a kit. If anyone is interested, please contact Ann Summers with USI at 904-732-5120 or Terry Hull at 904-731-7040.

## **FES NIGHT AT THE JACKSONVILLE SUNS**

Back by popular demand is the FES "Night at the Suns". Mark your calendars for the night of Friday, May 19<sup>th</sup> for this great event. Once again, we have scheduled our night out to coincide with the appearance of "THE FAMOUS CHICKEN". Last year, "The Chicken" was worth the price of admission himself. This event is for members, spouses, kids, and friends, so get a group together and plan on coming out. To purchase your tickets, or for more information, please call Mark Mechling at 904-880-0960.



## **NEWS RELEASE FEBRUARY 5, 2000 MATHCOUNTS TOURNAMENT RESULTS**

Jacksonville, Florida - Twenty one teams of 7th and 8th grade students, "mathletes", representing First Coast schools competed in the 18th annual regional competition of the national **MATHCOUNTS** program on **Saturday, February 5, 2000** at **Episcopal High School** from 9 AM to 3 PM. The contest is organized by the Northeast Chapter of the Florida Engineering Society.

### **The final individual standings were:**

- 1st Place Brandon Pence,  
R. J. Murray Middle School
- 2nd Place Stephen Kennedy,  
James Weldon Johnson Middle School
- 3rd Place Rebecca Legett,  
James Weldon Johnson Middle School
- 4th Place Adam Chin,  
James Weldon Johnson Middle School

### **The final school standings were:**

- 1st Place JAMES WELDON JOHNSON  
MIDDLE SCHOOL
- 2nd Place R. J. MURRAY MIDDLE SCHOOL
- 3rd Place ST. JOHNS COUNTRY DAY  
SCHOOL
- 4th Place ST. JOSEPH CATHOLIC SCHOOL

FES will send the top three schools to the state competition held in Orlando on March 25<sup>th</sup>.

Also, trophies were awarded to the *Best New School*, ST. JOSEPH'S CATHOLIC SCHOOL, the *most improved School*, ST. PAUL'S CATHOLIC SCHOOL, and *Ciphering Round winner*, THE PROVIDENCE SCHOOL.

For more information about this event, contact:

Ken Craig, MATHCOUNTS Coordinator,  
Northeast Florida Chapter of the Florida  
Engineering Society at 904-731-7040.

## **HABIJAX PROJECT**

The next Habijax Project day will be Saturday, March 25, 2000. If you would like to take part in this FES chapter effort, call Tamara Henderson at 904-724-3546.

## **LUNCHEON REPORT MOVING THE CAPE HATTERAS LIGHTHOUSE**

The luncheon was hosted by SAME with about 110 in attendance. Following the pledge to the flag, the invocation, announcements, recognitions and presentation of awards, the main speaker, Randy Knott, P. E., was introduced. Mr. Knott was recently named Engineer of the Year in the Atlanta, Ga. area.

About 2,300 ship wrecks have been recorded in the area of the lighthouse in the past 300 years. There has been about 1 mile of erosion over the past 200 years. Erosion progresses at about 10 feet per year and homes, hotels and roads now in use will be lost in coming years. The lighthouse is under the direction of the National Park Service, was built on a granite base, is 210 feet high and was moved 2,900 feet. Plans for the effort were initiated in 1997. Instrumentation and sensors were installed and monitored by computer to keep movement within specified bounds. Aging and cracks of unknown origin posed additional concerns. The lighthouse keeper had recorded a harrowing and violent earthquake in the late 1800's. The project included developing a strategy, designing, and executing the move. A wide variety of services, such as a value study, a management plan and peer review, thus became involved. The move was likened to moving an object the size of two space shuttles (but in an "only used once" situation).

The press was very involved in the event and there was a web site where all the activity could be monitored, including a view from a video camera



mounted at the top of the lighthouse. A complete public viewing plan was put in place that provided visitors an opportunity to view activity. There were about 10,000 people visiting on the first day, in addition to a multitude of TV trucks, their gear, network interviewers etc., which resulted in a much larger audience than anticipated. It was estimated that 500,000 visitors viewed the actual move and that 1,500,000 viewed activity on site during the life of the project. There was a relatively narrow window of opportunity for completion of the actual move which had to be between late summer storms and the hurricane season. The speaker augmented his presentation with pictures that included severing the structure from its granite base, the lifting process, preparing the means of transport, developing the mode of travel, the transport, preparing the new site, placement and securing to the permanent location. Movement per day varied from 10' on the first day to 355' on the last day. Ivory soap was used as lubricant on the ways. The setting down process for the 5,000 ton structure was the reverse of the lifting process.

It is hoped that the lighthouse will be good for another 100 years. The original site has been well marked. The project was completed in October, 1999 and the official opening is scheduled for Memorial Day, 2000.

### **ENGINEERS WEEK SCHOLARSHIP FUND GOLF TOURNAMENT**

By Ken Loeftgren

Jacksonville's Engineers Week Committee hosted the annual scholarship fund golf tournament at Orange Park Country Club on February 21, 2000. Thanks to the generous support of sponsoring firms, the winners will be the future recipients of scholarship awards. Over \$3,000 was raised for our local Engineers Week scholarship fund which awards academic scholarships to talented students in the First Coast area.

**Gold Sponsors** included Aikenhead & Odom; Bessent Hammack & Ruckman; Ellis and Associates; Post Buckley Schuh & Jernigan; Prosser Hallock; Reynolds, Smith & Hills; Qore Property Sciences; Parsons Transportation Group; Pitman Hartenstein; Robinson Engineering Group; Sverdrup Civil; Taylor Engineering; and U. S. Filter.

**Silver Sponsors** included Aerostar Environmental Services; Connelly & Wicker; Eisman & Russo; GAI Consultants - Southeast; ICF Kaiser Engineers; Insituform Technologies; Law Engineering and Environmental Services; Universal Engineering Sciences; and Wolf Technologies.

**Bronze Sponsors** included National Graphic Imaging; Pyburn & Odom; and S. Johnson Consultants.

**The Two Person Captain's Choice Scramble** included sixty nine players. Tournament winners were:

First place gross (70):

\* Mike Yuro & Steve Long

Second place gross (70):

Glenn Saare & Mike Vallencourt

Third place gross (71):

Bill Hartland & Rich VanSickle

First place net (70):

\* Jeff Pruett & Rod Figge

Second place net (70):

Ted Hotchkiss & Terry Adderhold

Third place net (71.1):

Robert Franques & Ed Hernandez

\* won scorecard retrogression tie breaker

**Proximity Prizes** (closest to the pin, longest drive, etc.) were awarded to Walt Rountree, Chris Ellis, Dawn Blackledge, Rod Figge, Ed Hernandez and Rich VanSickle. **Special thanks** to Andy Cummings and Connelly & Wicker for preparing signs to recognize each of the sponsors.

### **MILESTONE ANNOUNCEMENTS**

The report of the Chapter Nominating Committee for next year's officers will be made at the April meeting. Other nominations will be accepted from the floor during the meeting.

Please submit recommendations for candidates for the Northeast Florida Chapter "James F. Shivler, Jr., P.E. Award for Outstanding Service to the Engineering Profession". Contact or submit forms to Awards Committee Chairman Allan Boree, PE. by April 1<sup>st</sup>. Phone 904-279-2312 or send FAX to 904-279-2491.



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## 1999-2000 FES NORTHEAST CHAPTER

### CHAPTER OFFICERS

President	John E. Ellis, II, PE	W 904-880-0960 F 904-880-0970
Pres. Elect	Suzanne LeViseur, PE	W 904-246-0081 F 904-246-6288
Treasurer	Bob Kosoy, PE	W 904-247-5834 F 904-247-5843
Secretary	David Peigler, PE	W 904-367-8683 F 904-733-6621
State Dir.	Ken Loefgren, PE	W 904-396-5173 F 904-396-7503
FES TALLAHASSEE OFFICE		P 800-277-0086 P 850-224-7121

### COMMITTEE CHAIRPERSONS

Activities	Mark Mechling, PE	W 904-880-0960 F 904-880-0970
Adopt-A-School	Andy Cummings, PE	W 904-249-7995 F 904-241-1126
Awards	Allan Boree, PE	W 904-279-2312 F 904-279-2491
Communications	Dan Holmes, PE	H 904-287-9750 F (phone first)
Conservation & Environmental Quality		W 904- F 904-
Directory/Hist.	Don Ditzenberger, PE	H 904-743-6946
Ethics	Bruce Taylor, Ph.D., PE	W 904-731-7040 F 904-731-9847
EIT/PE Refresher Course	Eric Hendra, PE	W 904-367-8683 F 904-733-6621
	Bruce Myhre, PE	W 904-367-8683 F 904-733-6621
Eng'ers Week	Ken Loefgren, PE	W 904-396-5173 F 904-396-5703

Habijax	Tamara Henderson, EI	W 904-724-3546 F 904-724-9463
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### MATHCOUNTS

	Terry Hull, PE	W 904-731-7040 F 904-731-9847
	Ken Craig, PE	W 904-731-7040 F 904-731-9847
Membership	Mike Hersey, PE	W 904-743-6950 F 904-744-6267
Project CREATE		W 904- F 904-
Scholarship	Doug Davis, EI	W 904-262-9991 F 904-262-9996
Student Professional Development	James Horton, PE	W 904-396-5173 F 904-396-5703

### PRACTICE SECTION LIAISON

Professional Engineers in Government	George Knecht, PE	W 904-665-4426 F 904-665-7368
Engineers in Education		W 904- F 904-
Engineers in Industry	Gene Tonn, PE	W 904-798-5662 F 904-798-5700
FEC	Keith Kirwan, PE	W-904-786-1120 F--904-783-2970
Institute of Consulting Engineers	Frank Wilson, PE	W 904-398-8636 F 904-398-2968

### STUDENT CHAPTER REPRESENTATIVES

Jacksonville University	Dan Arnett	W 904-745-2076 F 904-745-7582
Univ. of North Florida	Matt Little	W 904-620-3880 F 904-620-2975

Word\_env03-00