



**FBPE**  
FLORIDA BOARD OF  
PROFESSIONAL ENGINEERS

# Connection

Volume 2 - Issue 4

Linking You with the Florida Board's Latest Engineering News & Information



## ENGINEERING CONFIDENTIALITY WHAT ARE YOUR OBLIGATIONS?

Submitted by: William C. Bracken, PE, SI, CFM

Regardless of an engineer's contractual obligations, licensed engineers and engineering firms within the State of Florida have statutory obligations when it comes to information gained or services provided on behalf of its client.

Chapter **61G15-19.001(6)(r)** of the Florida Administrative Code prohibits Florida licensees from "*Revealing facts, data or information obtained in a professional capacity without the prior consent of the professional engineer's client or employer except as authorized or required by law;*"

In short, once a licensee is retained they are not permitted to disclose or share certain information that was gained or produced while working for their client without that client's permission. Therefore, until the licensee's client authorizes the release of information that information cannot be released. The exception is when the licensee is required by law to do so.

Examples of an engineer being required by law to disclose information would include a subpoena for the licensee's records or the licensee becoming aware of any person or firm violating any of the provisions of Chapter 471 or Florida Administrative Code 61G15. In the latter case, failure to report could constitute misconduct in the practice of engineering.

Another example of an engineer being required by law to disclose

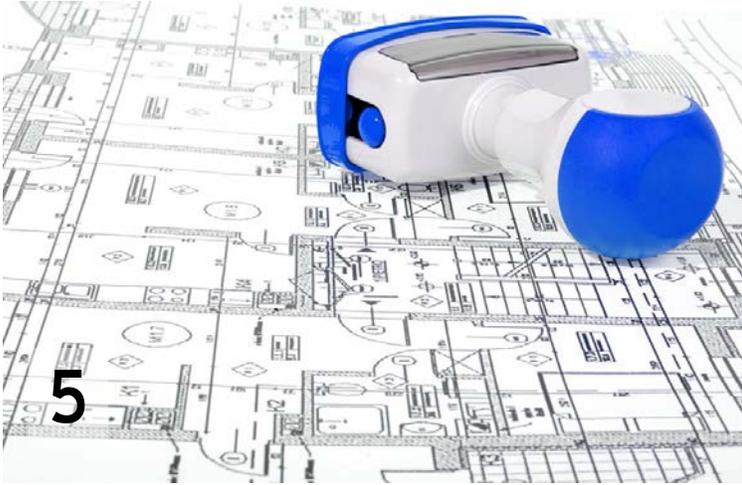
Chapter **61G15-19.001(6)(m)** of the Florida Administrative Code requires a licensee to immediately present information to FEMC "*If a professional engineer has knowledge or reason to believe that any person or firm is guilty of violating any of the provisions of Chapter 471, F.S., or any of these rules [FAC 61G15] of professional conduct;*"

information would be when the engineer becomes aware of a situation in which the safety of the public is at risk. In this instance, the engineer's statutory obligation would supersede any contractual obligation. Specifically, failing to report a situation that a licensee recognizes or has reason to believe is threatening the safety of the public would constitute misconduct in the practice of engineering.

Chapter **61G15-19.001(6)(l)** of the Florida Administrative Code requires Florida licensees to report "*If his engineering judgment is overruled by an unqualified lay authority with the results that the public health and safety is threatened, failure by a professional engineer to inform his employer, responsible supervision and the responsible public authority of the possible circumstances;*..."

To view the current laws and rules in effect that govern the practice of engineering within the State of Florida go to the *Legal* page of our website at [www.fbpe.org](http://www.fbpe.org) and select *Statutes & Rules*.

*This article was submitted by FBPE Board Vice Chair William C. Bracken, PE, SI, CFM. Mr. Bracken is the President and Principal Engineer for Bracken Engineering located in Tampa, Florida. He is a licensed Special Inspector and Professional Engineer in the State of Florida. Mr. Bracken is currently serving his second term as Vice Chair of the Florida Board of Professional Engineers.*



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# FROM THE EXECUTIVE DIRECTOR

## *Submissions Welcome!*

I would like to reiterate that FBPE welcomes submissions of articles from recognized professional engineering associations or societies, as well as engineering colleges or universities on industry related topics, events, or noteworthy accomplishments and achievements.

The goal of the Florida Board of Professional Engineers (FBPE) in publishing its quarterly *Connection* newsletter is to report on FBPE, FEMC and Board Staff's actions and activities. In addition, the FBPE will accept and publish, at its sole discretion, articles from recognized professional and academic organizations wishing to disseminate industry related information. Articles on FBPE, FEMC and Board Staff's actions and activities would take first priority and then, space permitting, articles submitted from recognized professional and academic organizations would be considered.

**Zana Raybon**  
*FBPE Executive Director*  
*FEMC President*



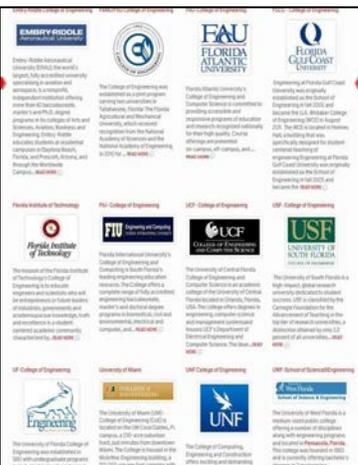
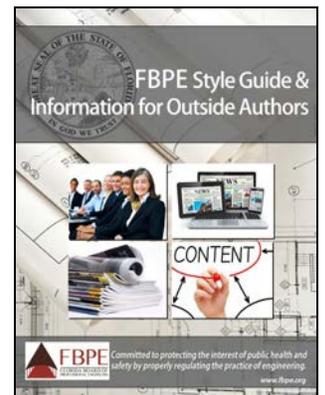

Articles submitted by recognized professional and academic organizations are to be specific to the engineering profession and its related industries. In addition, submitted articles are to:

- ⇒ Disseminate industry specific news, updates or activities, or
- ⇒ Communicate events, noteworthy accomplishments and/or achievements relating to the engineering profession.

Submitted articles are not to:

- ⇒ Contain interpretations, in any form, of FS 471 or FAC 61G15.
- ⇒ Contain opinions on or offer any positions related to FS 471 or FAC 61G15.
- ⇒ Promote a position or make a call to action on political or otherwise controversial topics. A recognized professional or academic organization may however, report on its particular position on an engineering related issue and may cite the factual basis for its particular position.

FBPE prefers original work but will consider reprints, with proper permission from the original source. You can find guidelines for style, formatting, and graphics for all submissions in FBPE's *Style Guide and Information for Outside Authors* on our website at: <http://www.fbpe.org/meetings-and-information/publications> or by going to the *Publications* page under the *Meetings/Information* section.



I would also like to take this opportunity to mention our new *Collegiate* page under the *Your FBPE* section of our website. This page was created to support our outreach efforts with the state's engineering schools and colleges. It serves as a great location for collegiate organizations and societies to submit articles for consideration that highlight significant achievements or projects, noteworthy appointments, as well as upcoming engineering related events. Besides the calendar function located on this page to highlight events, submissions from this page are also given consideration for posting on the Board's facebook and other social media, and printing in the quarterly newsletter assuming it meets all the guidelines listed in FBPE's style guide.

For further information on article submissions for the *Connection* newsletter, providing updates to our website or any of our social media, feel free to contact our Public Information Officer, **Shannon McCoy** at [smccoy@fbpe.org](mailto:smccoy@fbpe.org).

# CHAIRMAN'S CORNER

## OUR ENERGY FUTURE

In this issue's *Chairman's Corner*, I will opine under my mechanical engineer member's hat.

In the December 2013 issue of *POWER* magazine, Christoph Frei, Secretary General of the World Energy Council (WEC) outlined the following Myths and Realities:

**Myth 1:** Global energy demand will flatten out. **Reality:** Energy demand will continue to increase and double by 2050.

**Myth 2:** Peak oil. **Reality:** There is no shortage in sight for fossil fuel resources.

**Myth 3:** Demand growth will be fully met by new clean energy sources. **Reality:** According to WEC scenarios, the contribution of fossil fuels to global energy demand is still growing in absolute terms.

**Myth 4:** We can reduce global greenhouse gas (GHG) emissions by 50% by 2050. **Reality:** Even in the best case we will see a near doubling of GHG emissions compared to 1990 levels.

**Myth 5:** Current business models and markets are delivering. **Reality:** Current designs are unable to cope with the increasing renewable shares, decentralized systems, or growing information architecture.

**Myth 6:** Current programs will deliver universal access to energy within the next 10 to 15 years. **Reality:** WEC's analysis shows that on current paths, between 320 million and 530 million people will still be without electricity in 2050.

**Myth 7:** On a global scale capital is cheap and abundant. **Reality:** Capital is extremely sensitive to perceived political and regulatory risks. Moreover, due to the growing pressures on public finances in most countries, public funds will not be available to augment private energy financing.

Most of the above realities are beyond the scope and control of the average HVAC, Mechanical, Electrical and/or Control Systems engineer. But, what is available to these engineers is the ability to increase demand efficiency and thereby help out in the control of the reality of *Myth 1*.

In the building and construction industry, this means more energy efficient building envelope design (windows, walls and roofs), more

Warren G. Hahn, PE  
FBPE Chair



energy efficient HVAC systems, more energy efficient Building Management Systems and more energy efficient lighting and electrical systems. To design and provide energy efficient facilities normally will require higher first costs. (see *Myth 7*). It will be difficult to do with stringent budgets, but oh so necessary. Almost all studies show that a slight to moderate increase in facility first costs have paybacks, usually less than five years.



So, this is where engineers and architects become salesmen. They do this by advocating such energy efficiencies as LED lighting, higher EER and SEER HVAC systems, demand control for ventilation outdoor air, energy efficient motors and a host of other well recognized, but sometimes higher first cost energy savers.

Our building codes require a certain amount of energy efficiency implementation. A New Year's resolution at the start of 2014 might be to **NOT** skimp on these code requirements, but rather to amplify and enhance them in your engineering designs.

For a look at the full article referenced in this section go to *POWER* magazine's website at <http://www.powermag.com/defining-the-future-time-to-get-reall>.



The World Energy Council (WEC) is a global and inclusive forum for thought-leadership and tangible engagement with headquarters in London. Its mission is 'To promote the sustainable supply and use of energy for the greatest benefit of all people'. More information about the council and its current activities can be accessed on their website at <http://www.worldenergy.org/>.

Warren G. Hahn, PE is a licensed engineer with Hahn Engineering, Inc. located in Tampa, Florida. He has over 50 years experience in engineering contracting and construction. Mr. Hahn's experience includes extensive involvement in heating, ventilating and air conditioning (HVAC) systems. He provides engineering, design, analysis, construction supervision and inspection of mechanical, plumbing, fire sprinkler, security, network, lighting and electrical systems. Mr. Hahn also serves as an expert witness with forensic experience related to mechanical and electrical engineering.

Mr. Hahn is currently serving his second term as Chair of the Florida Board of Professional Engineers.

# FBPE Responds to Correspondence on Clarification on Shop & Work Drawings



Recently the board received correspondence regarding its October 2013 article entitled; "FBPE Provides Clarification on Signing & Sealing Shop & Work Drawings."

The correspondence demonstrated an understanding of the rules while also expressing frustration regarding their application "in the real world." One licensee wrote "While it is within the bounds of Florida Statute for me to thoroughly review them [Shop Drawings], redo all the necessary design calculations, and redraw them, many clients do not understand why they should undertake this costly procedure when they already have paid for 'complete' shop drawings."

It is worth keeping in mind that when an engineer signs, dates and seals documents, that engineer is accepting responsibility for the work contained within those documents. **61G15-19.001 (4)** reads "... Professional engineers shall approve and seal only those documents that conform to acceptable engineering standards and safeguard the life, health, property and welfare of the public." In other words, in order for a licensed engineer to accept responsibility for the work being signed, dated and sealed, that engineer **must** perform the work necessary to do so. We would, however, point out that the requirements for successor engineer [**61G15-27(1)**] do not necessarily require drawings to be recreated.

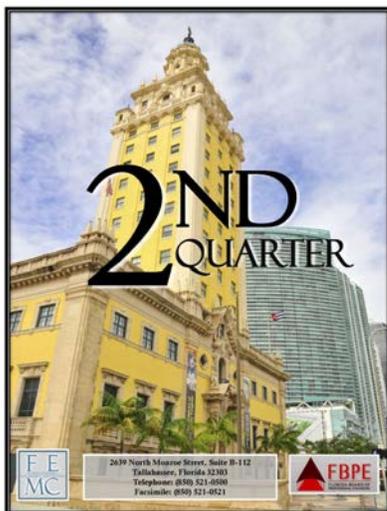
The licensee went on to write, "there is significant pressure from owners, general contractors and even architects to 'just

seal it'" and then indicated that they had lost work to those who do 'just seal it.'

The act of signing and sealing without performing the work necessary to properly accept responsibility is called **PLAN STAMPING**. Plan Stamping is defined as affixing or permitting to be affixed his or her seal, name, or digital signature to any documents that were not prepared by him or her or under his or her responsible supervision, direction or control. Plan Stamping can result in discipline ranging from a reprimand, plus one (1) year probation and a \$1,000 fine up to licensure revocation, depending upon the severity of the infraction. So, kudos to the author for not compromising our profession.

If you have any questions or would like further clarification on this rule, please feel free to contact FBPE's Legal department at (850)521-0500 or submit your inquiry to [board@fbpe.org](mailto:board@fbpe.org).

To view all of the current laws and rules in effect that govern the practice of engineering within the State of Florida go to the Legal page of our website at [www.fbpe.org](http://www.fbpe.org) and select Statutes & Rules.



## FEMC & FBPE Quarterly Reports

Each quarter FBPE/FEMC is required by contract to provide the Department of Business and Professional Regulation (DBPR) with a compliance report. These reports contain information related to licensure, legal deliverables and performance standards such as the number of applications received and processed and the status of complaints and disciplinary cases.

You can view the latest report for the 2nd quarter of the 2013-2014 contract year, along with previous issues, by visiting our website at [www.fbpe.org](http://www.fbpe.org) and selecting Quarterly Reports under the Corporate section.

Should you have any questions related to this report or others found on our site, please send your inquiries or comments to [board@fbpe.org](mailto:board@fbpe.org).



# Recent Engineer Discipline

**I**n the last few months, the Board has formally approved the following enforcement cases based on the Florida Statutes and Rules applicable at the time of the violation. Included is a brief description of the licensee's violation and discipline imposed by the Board.

**Bishar Tannous, PE**  
PE 46009  
Case No. 2013017813

Licensee was charged with the negligence in the practice of engineering, a violation of Section **471.033(1)(g)**, Florida Statutes. Licensee was hired to provide recommendations for deep grout and underpinning activities for a remedial engineering and construction project. Licensee created a signed and sealed grout and underpin injection engineering plan which included a layout plan, etc., and implementation was begun. Subsequent to providing the plan, Licensee provided a sealed and signed Summary of Grout and Underpinning Operation. The report was materially deficient in that the report stated that the contractor installed steel tubing during construction, but the tubing used was not Schedule 40 steel as required in the plan. The report states that an 8" x 8" bracket was used during installation of the underpin – not a 10" x 10" bracket as mandated by the plan, etc. The report is an engineering certification as defined in Rule **61G15-18.011(4)**, FAC. The opinions contained in the certification report were not prepared in accordance with due care in the performance of engineering services and were not issued with due regard to acceptable standards of engineering principles. A Final Order was issued on December 20, 2013.

**Ruling:** The Board approved a Settlement Stipulation imposing an administrative fine of \$1,000, costs of \$2,012, Reprimand, Appearance before the Board when the Stipulation was presented, one (1) year probation with terms, terms include a Board-approved course in Engineering Professionalism and Ethics and the Study Guide.

**Violation:** Section 471.033(1)(g), Florida Statutes.

*You can access the final orders for this case and other recent engineer disciplines on our website under the Legal section at <http://fbpe.org/legal/disciplinary-actions>. If you are unsure if an engineer has been disciplined you can verify their license on [www.myfloridalicense.com](http://www.myfloridalicense.com). Information on public cases in which an engineer has been disciplined can be obtained by sending an email request to [publicrecords@fbpe.org](mailto:publicrecords@fbpe.org).*

**Disclaimer:** FBPE would like to note that every effort has been made to ensure the accuracy of discipline information; however this should not be relied upon without verification from the Board office or website. It is possible that names of companies and individuals listed may be similar to the names of parties who **HAVE NOT** been disciplined or had compliant actions taken against them, so we encourage you to review licensee information on [www.myfloridalicense.com](http://www.myfloridalicense.com), contact our office or make a public records request should you have any specific questions regarding disciplinary actions. Public records requests can be sent to [publicrecords@fbpe.org](mailto:publicrecords@fbpe.org).



# Understanding the Complaint & Enforcement Process

**F**BPE often receives inquiries on how the complaint process works when involving an individual or company providing engineering services in the State of Florida. We wanted to take the opportunity to revisit this topic and provide a detailed overview in this edition of our newsletter. Note that all information on how to file a formal complaint, along with the laws and rules surrounding the practice of engineering in the State of Florida, can be found on our website at [www.fbpe.org](http://www.fbpe.org).

## General Facts & Information

The Florida Legislature determined, in the interest of public health, life, property and safety, to regulate the practice of engineering in the State of Florida. To accomplish this task the Legislature created Chapter 471, Florida Statutes. As provided in this law, the Florida Board of Professional Engineers is responsible for reviewing applications, administering examinations, licensing qualified applicants, and otherwise regulating the practice of engineering throughout the state.

Licenses are expected to know the laws and rules governing their professions and are expected to provide services in accordance with current regulations, codes, ordinances and recognized standards. When appropriate, the Board has the authority to discipline those individuals and firms (licensed and unlicensed) that offer and/or practice engineering in the State of Florida. The Board has the power to suspend, revoke, or refuse to issue, restore or renew a certificate of authorization for a firm, or a certificate of licensure for an individual, or place on probation, fine or reprimand any firm, professional engineer, or individual found guilty of violating Florida Statutes and Rules.

The Legal Department, consisting of the Chief Prosecuting Attorney, Investigator, and a Paralegal/Compliance Officer, manage the complaint and disciplinary processes. The department's duties include review of complaints, coordination of investigations, preparation of probable cause panel and board meeting materials, preparation of administrative complaints and orders, litigation of cases at the Division of Administrative Hearings (DOAH), handling appeals to the court system and assuring compliance with Board decisions. For more detailed information on how to file a complaint, review individuals currently being disciplined, and access Florida's current laws and rules, refer to their sections under the *Legal* home page on our website at [www.fbpe.org](http://www.fbpe.org).

## The Complaint Process Defined

Complaints are filed with the Board from many sources and any member of the public may file a complaint. The majority of written complaints received by FBPE are from consumers of engineering services and building department officials. Professional engineers and professionals from related fields, such as contractors, surveyors, and architects, also file many of the complaints that form the basis for investigations. You may file a complaint if you feel that a licensee, firm or individual has violated the provisions of law outlined in **Chapter 455**, F.S., **Chapter 471**, F.S., and **Chapter 61G-15**, Florida Administrative Code.

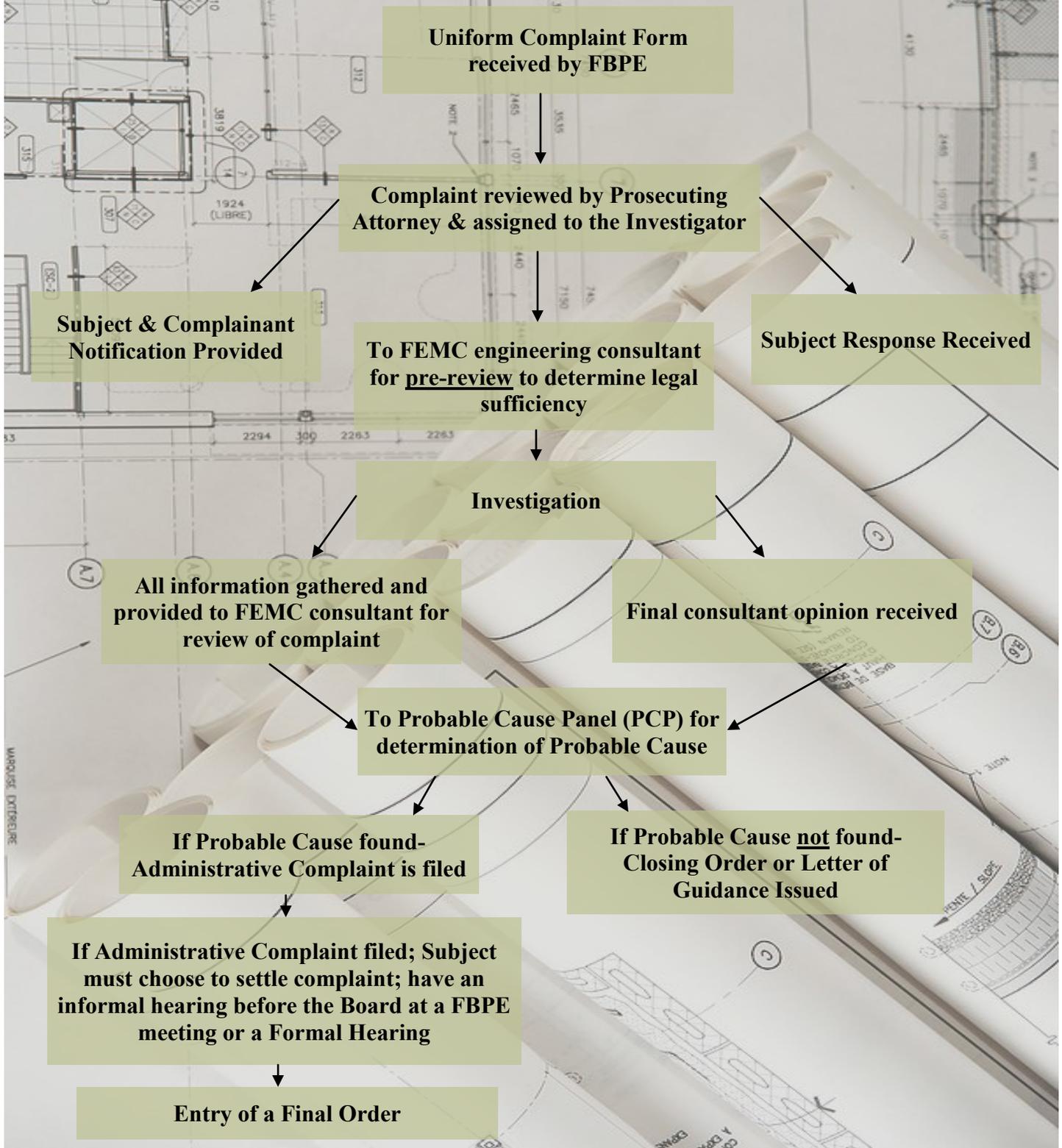
Once you file a complaint, it is forwarded to a FEMC engineering consultant for review. The preliminary opinion and complaint documents are analyzed to determine if what you have alleged is against the law. If your complaint is not a violation of law you will receive a letter indicating the file is being closed. If it is determined that the allegation you have made would constitute a violation of the engineering laws or rules, you will be notified that an investigation will take place. Following the investigation, the case will go to the FBPE Probable Cause Panel (PCP), which is similar to a grand jury, and they will determine if the case should be recommended to the full FBPE for discipline. The FBPE then serves as jury in the case and decides guilt or innocence, as well as the level of discipline if the accused is found guilty.

The Board ***DOES*** accept anonymous complaints. However, the Board encourages the complainant to include his or her name and phone number in case additional information is required. Please understand that if you file anonymous complaints, the investigator will be unable to contact you for clarification or for further information, so it is important that you include all of the information necessary to prove that a violation has occurred. ***Too much information is better than not enough information!!!***

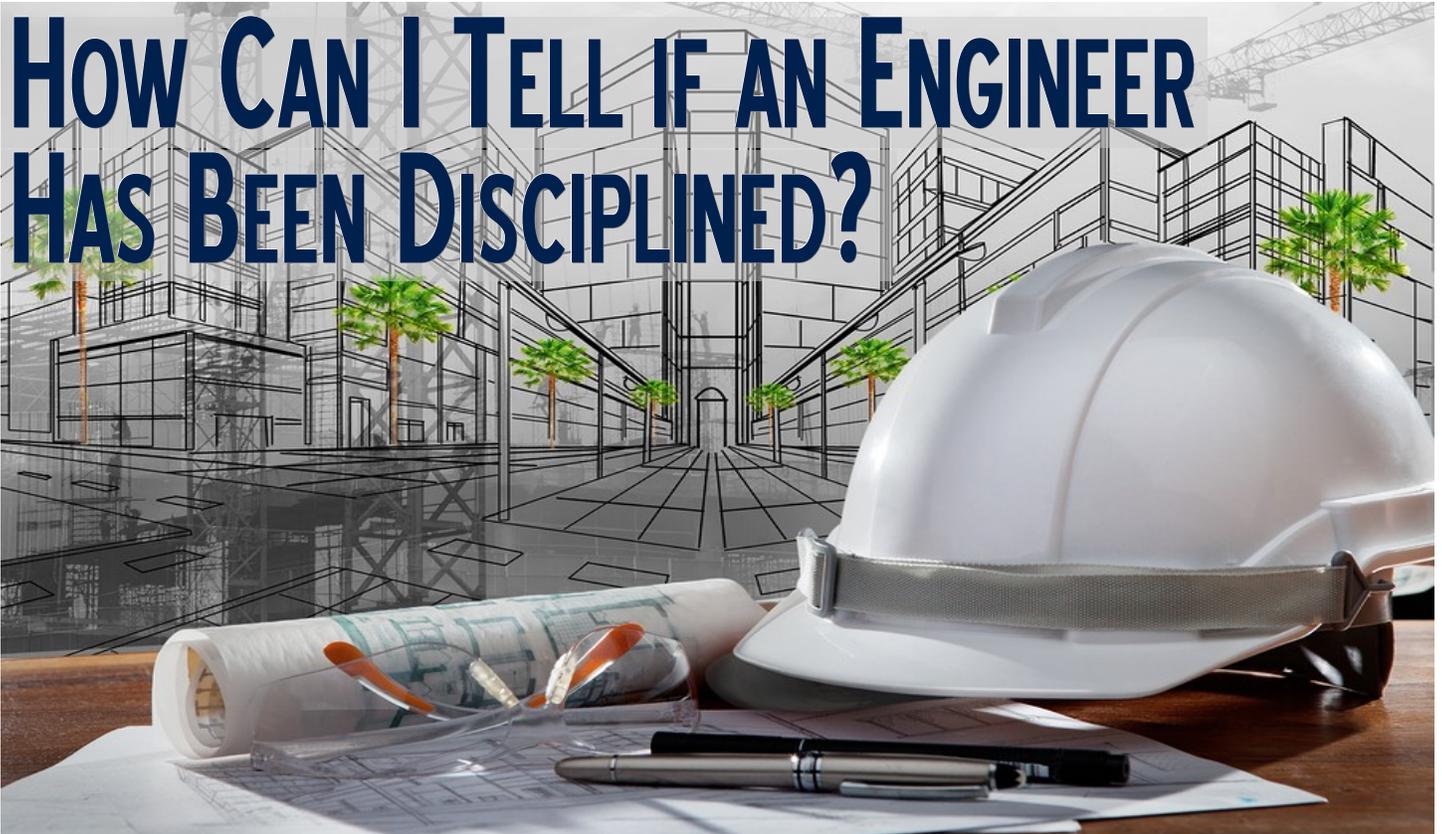
Further understand, you **will not** be notified of the results of the investigation of your 'anonymous' complaint.

Additionally, it is important to note that **Section 455.225**, Florida Statutes states: "*A privilege against civil liability is hereby granted to any complainant or any witness with regard to information furnished with respect to any investigation or proceeding pursuant to this section, unless the complaint or witness acted in bad faith or with malice in providing such information.*"

## How the Complaint Process Works



# HOW CAN I TELL IF AN ENGINEER HAS BEEN DISCIPLINED?



At times, the public may find it necessary to determine whether a Professional Engineer has been disciplined by the Board. If you visit [www.myfloridalicense.com](http://www.myfloridalicense.com), you may see various closure methods for complaints filed. Below is a list of closure methods and what they mean.

## **Cease & Desist**

When an unlicensed individual or company has either practiced engineering without a license or a company has offered engineering services without a Certificate of Authorization, a “*Cease & Desist*” will be issued advising the offender to cease the activity. If a second complaint for the same activity is filed after a “*Cease & Desist*” has been issued, the Board will generally forward those cases to the State Attorney’s office in the county where the individual or business resides for criminal prosecution.

## **Citation**

A citation is issued in lieu of disciplinary action for certain relatively minor transgressions, which the Board has determined can be resolved by the payment of a fine and compliance in the future. For instance, if a professional engineer or certificate of authorization holder either practices engineering or offers engineering services without a proper license/certification for a short period of time, a “*Citation*” can be used to penalize the professional engineer or certificate of authorization holder and resolve the matter without further Board action provided the licensee brings their license/certificate current.

## **Legally Insufficient**

A complaint that has been filed and reviewed can be deemed to be “*Legally Insufficient*” when:

- (1) no facts were found to justify investigating the complaint or,
- (2) the complaint alleged a violation of law that was outside the purview of the Board to take action.

This method of closure is most often used when a complaint is filed regarding something that is not within the Board’s jurisdiction, for example, a complaint that an engineer is practicing another profession, or a complaint for unlicensed activity when no

unlicensed activity has occurred, or a complaint for an issue that is not a violation of the Board’s laws and rules.

## **Closing Order**

When a complaint is legally sufficient, has been fully investigated and reviewed by the Probable Cause Panel, and found to have no violation of the Board’s laws and rules, a “*Closing Order*” will be issued.

## **Letter of Guidance**

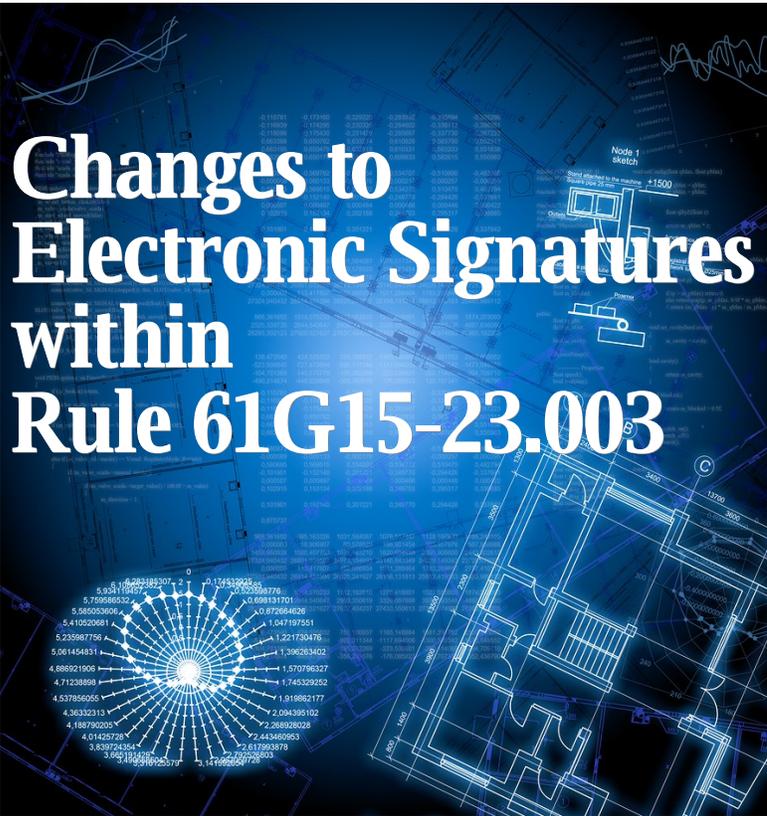
A “*Letter of Guidance*” (LOG) will be issued when there is probable cause for the PCP to believe that a violation of the Board’s laws and rules occurred, that the violation is relatively minor and, in the PCP’s opinion, is such that it does not rise to the level of having an “*Administrative Complaint*” issued. An “*LOG*” generally gives the Professional Engineer a written warning of certain behaviors to avoid in the future. An “*LOG*” does not constitute discipline of a PE’s license.

## **Final Order**

A “*Final Order*” means that disciplinary action has been taken against a Professional Engineer or a company that holds a Certificate of Authorization. Depending on the seriousness of the violation, the penalties and terms imposed may vary.

Pursuant to Rule **61G15-37.001(11)**, current cases are summarized and posted on the Board’s website until the offender completes probation and other PCP recommended penalties imposed by the Board, or until the licensee becomes inactive, retires, relinquishes the license or permits the license to become null and void.

If you are aware of an engineer that has been disciplined but cannot locate them on the current list under the *Legal* section of our website, you can submit a public records request at [publicrecords@fbpe.org](mailto:publicrecords@fbpe.org).



Changes to rule **61G15-23.003** *Procedures for Signing and Sealing Electronically Transmitted Plans, Specifications, Reports or Other Documents* have recently gone into effect.

Rule **61G15-23.003** establishes the procedures for signing and sealing electronically prepared deliverables through the use of digital signatures and electronic signatures. Based on input from a number of Florida’s municipalities, FDOT and Florida’s licensees, the FBPE Rules Committee proposed and the Board approved modifying the use of *Electronic Signatures* so as to create a true no-cost paperless method.

The previous *electronic signature* method required the licensee to create a report that contained the engineer’s name and PE number, a brief overall description of the engineering documents and the authentication code (Secure Hash Standard) of the signature file. This report was then required to be printed, manually signed, dated, and sealed by the professional engineer. Finally this signed and sealed paper report was to be submitted along with the electronic deliverables. While this was a no-cost solution, it was not a true paperless solution.

The rules change still requires the creation, printing, signing, dating and sealing of the paper report but now allows the report to be scanned and transmitted electronically with the deliverables. The hardcopy signed, dated and sealed report **is still required** to be retained by the licensee in full accordance with Rule **61G15-30.009**.

To read the entire rule, go to the *Statutes and Rules* page under the *Legal* section of FBPE’s website at [www.fbpe.org](http://www.fbpe.org).

# Mark Your Calendar!

## March 2014

- 9** Daylight Savings Time Begins
- 11** Application Review & PCP Meeting
- 12** Rules Committee Meeting & SE Committee Meeting
- 14** FEMC Board Ops Conference Call
- 15** Florida Science Olympiad
- 19-20** MATHCOUNTS® Competition
- 21** Ratification Conference Call
- 27-29** 2014 ASCE Southeast Student Conference

## April 2014

- 9-10** FEMC & FBPE Board Meeting
- 24-26** NCEES Southern Zone Meeting

## May 2014

- 2** FEMC Board Ops Conference Call
- 13** Application Review & PCP Meeting
- 16-17** Science Olympiad National Tournament
- 22** FEMC Board Conference Call
- 23** Ratification Conference Call
- 26** FBPE Offices Closed-Memorial Day

*Board meetings and other scheduled activities can also be found on our calendar located on the Home page of [www.fbpe.org](http://www.fbpe.org).*

# Florida Engineering Foundation Committed to Engineering Education

*Submitted by: George R. Knecht, PE, FNSPE, FFES*

In 1986, three members of the Florida Engineering Society (FES) decided to create a means to assist and encourage college students to obtain an education in pursuit of an engineering career, and at the same time educate the general public about what engineers actually do.



The Florida Engineering Foundation (FEF), originally established by **Mel Anderson, PE**; **John Grant, PE** and **Ray Miller, PE**, continues to function only with support from volunteers and

donations from individuals and engineering firms involved in business, the engineering industry, construction and government. Qualifying for a 501(c)(3) tax-exempt status, the Foundation is authorized to receive and administer funds for charitable and educational purposes, thereby allowing a laundry list of programs to be made available to support its mission of enhancing engineering education in Florida and positioning the state as a technological leader in the global economy. Some programs funded by the Foundation are:



- ⇒ Engineering scholarships
- ⇒ Student competitions, including MATHCOUNTS®
- ⇒ State engineering fair awards
- ⇒ Counseling and mentoring programs

Some of the Foundation's most active programs are student competitions and engineering scholarships. One competition, MATHCOUNTS®, is a national competition which encourages the love of mathematics among middle school students. They begin competing at the local level, proceed to the state level and then to the national competition, which is generally held in Washington, D.C. The U.S. President usually meets the winning team and the event gets wide news coverage. FEF continues to be the single largest sponsor of the Florida MATHCOUNTS® and is proud to offer support to this incredible program through its donations and volunteers.

*(Pictured from left to right) Charlie Geer, George R. Knecht, PE, FNSPE, FFES, Ernest A. Cox, III, PE, Dr. Cammy R. Abernathy, Dean of UF College of Engineering, and Mike Bell.*

The Foundation also supports other student competitions along with their sponsor societies such as: American Society of Civil Engineers (ASCE) - Steel Bridge, Concrete Canoe, Technical Paper; American Society of Mechanical Engineers (ASME) - Human Powered Submarine, Human Powered Racing Vehicle; Society of Automotive Engineers (SAE) - Small Racing Automobile; and several others. Currently, eight ABET accredited colleges of engineering in Florida's university system receive a stipend of \$1,000 annually. Presentations are made to the Dean and representative participants at each of the colleges by a Trustee of the Foundation. Since the initiation of the program approximately \$45,000 has been directed to this program. The students start out in state wide competitions, move on to regional, and then to the national level. Some have gone as far as to compete internationally with several of our state colleges having won!

Engineering scholarships, now standing at \$43,000, are awarded annually to high school students interested in pursuing engineering degrees, as well as current enrolled college engineering students. The students can compete for scholarships if they have a genuine interest in engineering and might need financial assistance. For example, high school students applying for the scholarships must possess a 3.5 grade point average or higher, be a graduating senior from a Florida school, be enrolled in an ABET-accredited

*(Continued on page 16)*

## It's Official... CBT is Here!!



The era of Computer Based Testing (CBT) has formally begun with the release of the October 2013 Fundamentals of Engineering exam grades - the last written FE exam administration.

By and large, the performance of the Florida examinees compared favorably with the national average, matching or beating the average overall. A healthy 65-70% average of the examinees passed both the FE and PE exams. Additionally, three examinees passed both 8-hour components of the 16-hour comprehensive Structural Exam to gain the qualification of 16-hour structural engineering on their licensure records. From the inception of the 16-hour comprehensive Structural Examination in April 2011, 20 Florida licensees have passed the examination. The FE, PE and 16-hour Structural Examination pass rates speak well for Florida in the preparation of our students and licensees for the future demands of engineering in Florida.

Applications for the 2014 CBT Fundamentals Examination (FE) are being received at a steady pace. Since there is no longer a defined application deadline for the fundamentals examination, a candidate can simply submit an application to the Board once he or she is qualified. Since there are now four testing periods throughout the year to schedule an exam, each two months in length, it is more convenient for the applicant to submit the application. Applicants should allow 45-60 days to complete the processing and approval of their application for examination. This will allow for the receipt of supporting documents such as transcripts or study guides in order for the Board to review and approve the application. Then the applicant may register with NCEES and schedule a time with a PearsonVue Center for the examination in any of the available windows. The applicant has up to a year after registering with NCEES to schedule the exam. The candidate may attempt the exam one time only in a two-month examination window. If he or she is unsuccessful in passing, the candidate is then required to apply for re-examination with the Board in order to schedule another attempt in a successive exam window. We anticipate a more fluid application process for all applicants as we move away from two deadlines a year and the crush of last minute applications to a smoother application process without the last minute rush.

Please note that the schedule for the paper and pencil PE and SE Exams remains the same, being offered only during the months of April and October. Deadlines for both FBPE and NCEES accepting applications to sit for those exams are as follows:

### FBPE PE/ SE Application Deadlines

Applications Received by:	Application Files Completed & Re-Exam Applications by:	NCEES Professional Engineering (PE) Exam Date	NCEES Structural Engineering (SE) Exam Date
October 11, 2013	December 13, 2013	April 11, 2014	April 11-12, 2014
May 16, 2014	June 20, 2014	October 24, 2014	October 24-25, 2014
October 17, 2014	December 12, 2014	April 17, 2015	April 17-18, 2015
May 15, 2015	June 19, 2015	October 30, 2015	October 30-31, 2015
October 15, 2015	December 11, 2015	April 15, 2016	April 15-16, 2016
May 14, 2016	June 18, 2016	October 28, 2016	October 28-29, 2016

# COMING SOON... *License Renewal!*

Licensure renewal will officially begin in **November 2014** for all PE license holders and certification of authorization holders.

With all current and active licenses set to expire on **February 28, 2015**, it is important to make certain all continuing education requirements have been completed prior to the expiration date and prior to the attempt to renew. Currently, license holders are required to complete four (4) hours in the area of practice and four (4) hours of Florida laws and rules.

Last renewal period the reporting requirement was modified in that official reporting to FBPE of your CE credits was no longer required, making it the responsibility of the licensure holder to maintain proper accounting records of continuing education. It is important to note that during the renewal process the license holder is required to sign a statement attesting to the completion of the appropriate CE credits and that, by signing the statement, the licensee acknowledges that he or she is subject to a random audit of continuing education credits. Keeping your CE credits up to date can be done by simply logging into your account at [www.myfloridalicense.com](http://www.myfloridalicense.com) or you can forward your completion information to Nancy Wilkins at [nwilkins@fbpe.org](mailto:nwilkins@fbpe.org).

All information regarding renewal and continuing education can be found on our website at [www.fbpe.org](http://www.fbpe.org) or by contacting our office at 850-521-0500. FBPE plans to make future announcements regarding the upcoming renewal process in the FBPE *Connection* newsletter, on our website, and via U.S. mail and email, so we encourage you to make sure all your contact information associated with your license record is current and accurate!



**If you have any questions concerning licensing or examinations, please contact our offices at (850) 521-0500 and opt to speak to someone in our Licensure department. You can also find all information related to applications and licensure on our website at [www.fbpe.org](http://www.fbpe.org).**

## MAINTAINING RECORD ACCURACY...IT'S ALL UP TO YOU!



**D**id you know that whenever your contact information changes it is ***YOUR*** responsibility to update your licensure record? FBPE wants to remind you of the importance of keeping your vital information accurate on your licensure record.

It is the responsibility of the licensee or certificate holder to notify the Board of any change of vital information previously submitted, such as a name or address change, change of employer, or change of PE in responsible charge for a firm.

This information should be provided **within 30 days** of when the change occurs to ensure proper delivery of licensure correspondence and uninterrupted Board service. We also encourage licensees to provide the most current email address as we routinely provide special notices, information and the quarterly newsletter electronically.

To submit your changes you can simply complete the interactive form located at the bottom of the *Other Forms* page located under the *Licensure* section at <http://fbpe.org/licensure/other-forms> or email the new information to [board@fbpe.org](mailto:board@fbpe.org).

For those individuals requesting to change their name and obtain a new copy of your license, **YOU MUST SUBMIT** new photo identification and a copy of a marriage certificate or divorce decree along with the appropriate order form and the \$25.00 fee. The order form can be downloaded from our website under "*Order Form for Duplicate Licenses and Certificates*" at <http://fbpe.org/licensure/other-forms>.

Additional forms can be located on this page such as requests to change license status, verification of licensure and delinquent renewal forms. If you have any questions feel free to contact the Board's office at (850) 521-0500.

# RECOGNITION

# SPECIAL

**FBPE would like to congratulate all of the candidates that successfully passed the October 2013 NCEES Fundamentals of Engineering (FE), Principles and Practice (PE) and Structural Exams.**

**We wish them much success as they move towards the next step in their engineering careers!!!**

## **NCEES Fundamentals of Engineering (FE) Exam Passers - October 2013**

Allan Abellard  
Sarah Aboul-Hosn  
Tyler Achotegui  
Francisco Agudo  
Mohamed Aguib  
Adrian Alfonso  
Richard Algoo  
Cory Allen  
Nelson Anderson  
Whitney Anderson  
Michael Angell  
Taylor Anon  
Evan Anselmo  
Rachel Aponte  
Miguel Aragon  
Nicholas Araica  
Alan Ardaman  
George Armanious  
Jennifer Arniella  
Michelle Arnold  
Ana Arsova  
Serdar Astarlioglu  
Mina Atassi  
Caitlin Augustin  
Ei Aung  
Husain Baaqel  
Gert Badenhorst  
Joseph Bailes  
Chad Bailey  
John Baker  
Mahendra Balkaran  
Abraham Balmori  
Kelly Barlet  
Jessica Barrow  
Daniel Barshinger  
Justin Bartusek  
Joseph Bass  
Prince Bates  
Douglas Bearden  
Kyle Bechtelheimer  
Lauren Beckwith  
Bernardo Benigni  
Vanessa Benzecry  
Aaron Bergeron  
Jordan Berlin  
Brett Bertot  
Jasreet Birk  
Devin Booth  
Sebastien Bosc  
Anthony Bowers  
Augusto Braccialli  
Ileana Bracete  
Philip Brannon  
Eric Braun  
Mayumi Bravo  
Stephen Brewer  
Steven Brill  
Michelle Brioso  
Danielle Brisson  
Quincy Brown  
Alyson Burdge  
Patrick Burgart

Sydney Burgjohann  
Tiffany Buster  
Erick Bustos  
Melissa Butcher  
Rebekka Byrnes  
Jinhee Byun  
Arisse Caba  
Catherine Cackling  
Joseph Cain  
Kahlil Campbell  
George Cancio  
Phillip Carlberg  
Kali Carroll  
Raymond Carter  
Pablo Cespedes  
Tianyi Chen  
Andrew Cherepon  
Joseph Chimienti  
Philip Chorath  
Felipe Cifelli  
Leslie Cleaver  
Wade Cobb  
Joshua Cockriel  
Brittany Cogger  
Paul Conboy  
Carolina Condarco-Quesada  
Steven Conley  
Nicholas Conlin  
Jennifer Connell  
Max Connery  
Jason Cornelius  
Jacob Cornman  
Claudio Costa  
Alexander Costakis  
Geoffrey Cox  
David Cross  
Eric Cross  
Salvatore D'Acunto  
Ronald D'Amico  
Sean D'Souza  
Marilia Da Silva  
Tyson Dabney  
Andrew Dady  
Yading Dai  
Daniel Davis  
Haley Dawson  
Denis Denis  
Anthony DePonto  
Rian Dertien  
Maria Di Bonaventura  
Jesse Diaz  
Victor Diaz  
Crystal Dietz  
Stella Diniz Goncalves Nardelli  
Gregory Dohme  
Oisín Dolley  
Kyle Dollman  
Solimar Donato  
Stephen Donegan  
Randall Dudenbostel  
Ryan Duggan  
Andrew Dunn

Joshua Eberle  
Gabriel Echeverry  
Mario Edouard  
Karalyn Edquist  
Eli Enders  
Esteban Espinal  
Adolfo Espino  
Eric Espinoza  
Jose Estevez  
Thomas Faber  
Franklin Falcon  
Nicholas Falgiatore  
Jordan Falzetti  
Michelle Feduccia  
Ryan Feinberg  
Aryeh Feldheim  
Jeremy Felts  
Tatiana Fernandez  
Larissa Ferreira  
Leonardo Figueroa  
Nathan Fist  
Arley Fleites  
Ryan Flipse  
Liane Fongyee  
Chase Foster  
Larijai Francis  
Ryan Frazier  
Christopher Freeborn-Scott  
Brandon Frey  
Jonathan Fronczek  
Holly Frost  
Diana Fuertes  
Maxwell Furth  
Michael Fury  
David Futch  
Samuel Gallagher  
Matthew Galloway  
Eduardo Garces Moya  
Jose Garcia  
Mason Gardberg  
Jenna Gardner  
Meriam Gardner  
Michelle Gartman  
Marcel Gaspard  
Kenneth Gauthier  
Dario Gerszuny  
Austin Getgen  
Darrell Gillman  
Christopher Goldson  
Eduardo Gomez  
Juan Gomez  
Oscar Gomez Isla  
Esteban Gonzalez  
Gavin Good  
Zachary Goodwin  
Mark Grande  
Ryan Green  
Scott Griffith  
Maria C. Guevara  
Sergio Guzman  
Sloan Hagerty  
Evan Hall

Mathew Handt  
Taylor Hardin  
Timothy Harper  
Jahnavi Harris  
Landon Harris  
Ryan Haskins  
Robert Hatton  
Dana Hawes  
Cody Hazelbaker  
John Hearin  
Charles Heller  
James Henderson  
Nathan Henderson  
Timothy Heneks  
David Herman  
Michael Herman  
Christopher Hernandez  
Armando Herrera  
Omar Herrera  
David Herrick  
Sean Hicks  
Brandon Hightower  
Ryan Hileman  
Amy Hodgson  
David Horner  
Joshua House  
Paige Hovenga  
Thomas Huber  
Eduardo Huertas  
Ryan Huff  
Shelby Hughes  
James Hurtt  
Michael Hutchison  
John Irvani  
Rocco Italiano  
Hansel Jacob  
Scott Jagolinzer  
Lorena Jaramillo-Majano  
Jawara Jarrett  
Craig Jasin  
Kaitlyn Jeanis  
Ryan Jensen  
Norman Jeter  
Felix Jimenez Galo  
Ryan Johnson  
William Johnson  
Marco Jones  
Christopher Kain  
Christopher Kalil  
Alexander Kerlek  
Mohammad Khawaja  
Catherine Kiever  
Justin Kinsley  
Tara Kivett  
Justin Koczak  
David Kovacs  
Kelly Landry  
Jacquelyn Larocque  
Robert Legrano  
Cesar Leirias  
Stephen Leshko  
Drew Lewis

Michael Lewis Rodrigo Ley Holly Loeffler James Longville Andres Lopez Jose Lopez Michael Lucas Kimberley MacDonald Joseph Madani Andrew Major John Malone Nathan Manser Julio Marquez Tyler Marsh Courtney Marshall Patrick Martin Andre Martinez Hillary Martinez Maria Martinez Sergio Martinez Kimberly Masi Katherine Maslak Lamar Matthews William Matthews Jordan Mayers Arnoldo Mazzone Cassandra McCall Ryan Mcchesney James McGinnis Casey McKibben Nathaniel McNichols Adrian Meahl William Mejia Lilya Melnikova Jennifer Melroy Gerald Mendez Giuliana Mendez Spirito Rene Mendoza David Mercer Benjamin Micklavzina Daniel Millan Gerald Miller Matthew Miller	Brandon Mills Alec Mitchell Charles Moiso Francesca Moloney Ruby Monsalve Eduardo Montesinos George Montgomery Esther Montoya Villalta Anniel Morales Juan Morales Mario Morales Gustavo Morris Matthew Morris Russell Morris Ouissam Mouri Susan Mudrak Maria Mujica Eric Munoz Abram Nashed Steven Nason Victor Neese Erik Nemati Ricardo Neyra Linh Nguyen Phong Nguyen Ramvineeth Nitta Ryan Novak Timothy Nugent Emanuel Nunez Giorgio Nusiner Mary O'Brien Anatoliy Olimpiyuk Yailin Oliva Joshua Olson Nicholas Overby Tyler Owens Valentina Padilla Timothy Palmer Nicholas Papaiani Kyle Paradis Sarah Parinella Shweta Patole Ronald Paul	Spencer Paul Dylan Pearson Daniela Peguero Jeffrey Penland Andrew Perez Osval Perez Esteban Perez-Bernal Michael Perry Carlos Pesantez Gavin Petit John Petry Owen Phillips Pollop Phonpornwithoon Alejandro Pinero Jordan Pinnix Jordan Pinnix Anna Plegachova Bradley Pliskow Nicholas Potolsky Mark Price Kyle Purvis Frank Ragone Randell Rainey Aaron Ramjas Derek Reda Carla Reid Cory Rettenmaier Johnny Reyes Brandon Reynolds Jon-Erik Reynolds Collin Ries Tamarah Riggs Genesis Rios Ivan Rodriguez Lorenz Rodriguez Santiago Rodriguez Florez Raimundo Rodulfo Richard Rogers Tyler Rountree Juan Rubiano Samuel Rustan Robert Ryan Isaiah Sadler Vinod Sandanasamy	Daniel Sanders Yoelmir Santana Christopher Sargent Curtis Scholz Andrew Schwarz Matthew Selkirk Christopher Sell Michael Semago Charles Seybold Ryan Shanaghan Colin Shaw William Shaw Michael Shields Kayla Shope Scott Short Gregory Shows Daniel Shull Steven Simmermaker Christian Simpson Cydney Sims Gleb Skljar Nicole Smith Christopher Sponseller Gary Sroka Jonathan Stansel Joshua Stephens Michael Stephenson Craig Stevenson George Stewart Anastasia Strazhko David Stump Alexander Swanson Lars Swanson Tit Ngai Tam Andrew Tanasescu Telmo Tandazo Lynwood Taylor Nikeisha Thomas Robert Thomas Scott Thompson Grady Timmins Eric Toebe Nicholas Tomlinson	Ryan Tordella Krickstein Torres Olivia Townsend Victor Tran Martin Trang Michelle Trayner Amy Umana Andres Urrego Thomas Utchel Angel Vazquez Cruz Juan Vazquez Tamayo Joseph Veingrad Juan Velasquez Nathaniel Vick Jimmy Vilce Nikola Vlacic Eileen Vranesh Ryan Wall Kalvin Weeks Jason Weiss Cody Welch Ryan Weller Gregory Whissell Dustin White Joel Widmer Emily Wigle Samuel Wilburn Jame Wills Zach Wohlpart Edith Wong Matthew Woodham Jared Wynn Shuai Xiao Jake Yap Wen Ping Yeh Nicholas Yonezawa Anthony Young George Zamar Yifan Zhang Bryce Zinckgraf Alberto Zuniga Mario Zunino
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## NCEES Principles and Practice (PE) Exam Passers - October 2013

Ana Abaunza Timothy Abrahamson Mustafa Al-Bassam Shahrzad Alaghemand Hector Alfonso Artur Amaral Jesus Ameijeiras George Anagnostis Megan Andersen Brandon Baggett Michael Bailey Daniel Balter Ricardo Baraybar Angela Baron Alexander Barr Hany Basilius Patrick Beck Bizuayehu Bekele Ben Joyce Belen Daniel Benitez Enest Benton Grigory Berikhman Donald Betances David Bissessar	James Blanton Lawrence Boraiko Harold Boudreau Michael Boyle Shaun Bozeman Andrew Budgake Heather Byrne Anthony Cameratta Richard Camino Perez Cairo Cangas Yves Carrion Monica Casali Joaquin Casanova Nicole Christiansen Luke Classon John Coby Michael Coleman Neal Colvin Jordan Cook Daniel Coorey Jeremy Crowe Emmanuel Cruz Michael Dalton Stephanie Damasceno	Charles Darden Charles Day Adrian De Los Reyes Dale Decola Brian Deitsch Claudia Diaz Ricardo Diaz Jose Diaz Tejera Michael Dmytryk Lori Dominey Gretchen Dorn Gabriel Duque Tracy Edmonds Eric Eiermann Alan Eldridge Scott Ennis Dalila Fernandez Mario Fontela Scott Fowler Edwardo Freeman Maricela Fuentes James Funderburk Kevin Fussell Stephen Gagnon	Kipley Gaillard Matthew Gillespie Christopher Glasscock Cortland Glowacki Cindy Gomez Miguel Gonzalez Adrienne Gould-Choquette Zachary Gross Brian Haney Thomas Harper Benjamin Hassell Daniel Henderson Eduardo Hernandez Jose Hernandez Jazlyn Heywood Thomas Hill Gerald Howes Scott Hult Kenneth Hunter Wes Hutchison Edwin Ibarra Brian Icerman Christopher Imparato Mohammed Issa	Jason James Ryan Johnston Matthew Jones James Karalekas Sean Kelly Rachael Kent Ryan Knowlton Matthew Kosar Michelle Krawczyk Kalvin Kwan Matthew Lail Justin Landowski Scott Lanker Wendi Leanhardt Dewey Leblanc Keith Ledford Wai Chen Leow Adam Levine Kellen Lindsey Benjamin Loeser Jeffrey Longshore Austin Lovejoy David Lucas Katherine Luetzow
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Crickett Luu  
 Kevin Magaditsch  
 Frank Manning  
 Joshua Mannix  
 Lindsey Maron  
 Jennifer Marshall  
 Juan Martinez  
 Christopher Masters  
 Richard Matthews  
 Nicole Mauntler  
 Michelle Maxey  
 Senia Mcintyre  
 Marlon Medina  
 Matthew Melchiori  
 Michael Melton  
 Leon Alejandro Mendez  
 Brett Messner  
 Yulet Miguel  
 Nicholas Milazzo  
 Alexander Mims  
 Salahuddin Mohammad  
 Ryan Montag  
 Wilhelmina Montero  
 Jaison Moras

Kyle Morel  
 Joseph Morrissey  
 Christopher Moseley  
 Alan Mrvica  
 Macielli Mustiga  
 Michael Nellis  
 Angelo Nieves  
 Neil Nunez  
 Colleen Orr  
 Idalmis Ortega  
 Joel Ortiz  
 Nathaly Padron  
 David Paiko  
 John Palenchar  
 Peter Pastore  
 Hermocrates Paz  
 Pedro Pelegrin  
 Kevin Pemberton  
 Mariley Perera Santos  
 Christopher Perez  
 Pedro Perez  
 Lince Philip  
 Ricardo Picayo  
 Lillian Pierson

Alberto Pisani  
 Brandon Poiencot  
 Jose Polanco  
 Eva Porras  
 Harold Radcliffe  
 Chris Rawl  
 Joshua Reichert  
 Ryan Renardo  
 Robert Rene  
 Benjamin Renshaw  
 Joseph Rezutko  
 Alexander Robbins  
 Edwin Rodriguez Alvarez  
 Pooya Roohi  
 Megan Ross  
 Jorge Russy  
 Daniel Rutland  
 Jeffrey Rzewnicki  
 Stephen Saha  
 William Salisbury  
 Gil Samson  
 Michael Sanders  
 Hyderabad Sanjay  
 Giuseppe Santoro

Gregory Sattler  
 Colt Schwerdt  
 Kristen Sealey  
 Jose Semprun  
 Saypraseut Sengsouvanna  
 Stephanie Shealey  
 Luis Silva  
 Peter Simms  
 Michael Simon  
 Kenneth Slezak  
 James Smith  
 Rusty Snider  
 Patrick Snyder  
 Nathan Somerville  
 Kevin Spellicy  
 John Stancil  
 Kelly Stevens  
 Mark Suarez  
 Yainel Tarano Villazon  
 Jayapregasham Tharamapalan  
 Julie Tom  
 Roberto Toth  
 Keith Trace

Jonathan Tugwell  
 Jorge Valle  
 Giuseppe Van Oordt  
 Vamsi Vanama  
 Ryan Vasile  
 Matthew Vera  
 Kevin Vickers  
 Jonathan Wadas  
 Nicole Walker  
 Ty Walker  
 Christopher Wallden  
 Kellie Watson  
 Paul Wildman  
 Abbie Wilson  
 Andrew Winckler  
 David Wirth  
 Austin Wood  
 James Woodard III  
 Rachel Wright  
 Ming Xiao  
 Matthew Young  
 Christopher Zavatsky

(Continued from page 11)

Florida Engineering Foundation—Committed to Engineering Education

engineering program, have attained the minimum passing test score on the SAT exam and provided all proper documentation. These scholarship winners are selected by committee and announced in May of each year. For more information about all scholarships and their eligibility requirements, go to [www.engineeringfoundations.org](http://www.engineeringfoundations.org).

As you can see, these are just a few of the beneficial opportunities being provided to students and societies in support of engineering by the FEF. If you are interested in becoming a member of FEF, it is a very simple process. Contact **Shawn Stewart** at FEF via email at [shawn@fleng.org](mailto:shawn@fleng.org) or by calling 850-224-7121.

More information about the Foundation and the many levels of membership can also be found on their website at [www.flengineeringfoundation.org](http://www.flengineeringfoundation.org).

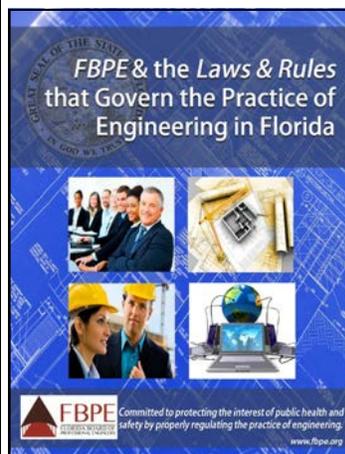


### Author & Acknowledgements

This article was written by **George R. Knecht, PE, FNSPE, FFES**. Mr. Knecht, is a University of Florida graduate and Florida licensed civil engineer. He was in the U.S. Navy Seabees (enlisted), the U.S. Coast and Geodetic Survey (officer), and is retired from the JEA and the City of Jacksonville. He is a past president of the Florida Engineering Society (FES) and a member for 40 years. He is also on the Board of Directors of the FEF, and a member for 12 years. He currently leads the engineering student competition program of the Florida Engineering Foundation. If you have any questions about the Foundation or the article provided in the issue you can contact Mr. Knecht via email at [gjknecht@comcast.net](mailto:gjknecht@comcast.net) or at 904-268-3577.

The presentation photo included with this article appears courtesy of FEF.

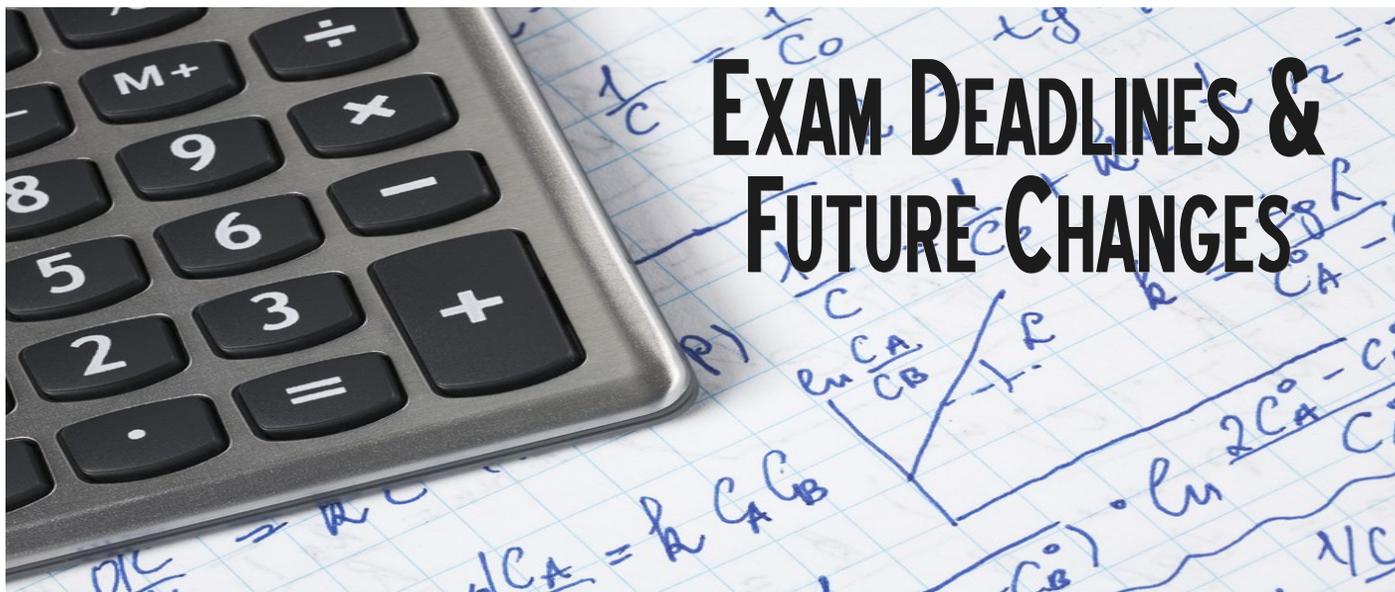
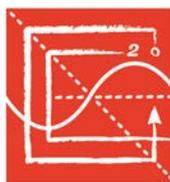
## Ensuring the Health & Safety of the Public Through Education



As mentioned in previous issues and also hand-in-hand with FBPE’s collegiate education efforts regarding the FE CBT Exam transition and promoting professional licensure, the Board has developed a presentation for the engineering community to support our mission to ensure the public’s health and safety through education.

FBPE has conducted a number of presentations to its collegiate audience about how to begin the process of obtaining licensure here in the State of Florida, but is also available to conduct presentations to currently licensed engineers and firms, about the engineer’s role and ethical obligation to the practice of engineering and operating in the public’s best interest. The presentation, **FBPE & the Laws & Rules that Govern the Practice of Engineering in Florida**, provides an overview of the Board and its mission, FEMC; highlights and explains the current **F.S. 471, Engineering** and **F.A.C. 61G15, Board of Professional Engineers**.

Committed to ensuring the health and safety of the public through education, licensure and regulating the practice of engineering in this state, FBPE and its members are available to conduct this presentation. If you feel like your organization or institution would benefit and are interested in finding out more about this subject or would like more information on a specific topic please write to Shannon McCoy at [smccoy@fbpe.org](mailto:smccoy@fbpe.org). As always, we encourage you to access our website, [www.fbpe.org](http://www.fbpe.org) for all the most current information about FBPE and its activities.



## EXAM DEADLINES & FUTURE CHANGES

### **April 2014 Exam Changes**

**Structural Engineering (SE) 16-hour** - The SE 16-hour exam will have revised design standards starting in April 2014. The standards are posted on the NCEES website at <http://ncees.org/exams/se-exam/>.

**PE Civil** - The PE Civil exam will have revised design standards for the Civil Structural and Transportation modules starting in April 2014. The standards are posted on the NCEES website at <http://ncees.org/exams/pe-exam/>.

**Social Security Numbers** - Beginning with registration for the 2014 pencil-and-paper and computer-based exams, NCEES will no longer collect Social Security numbers from potential examinees when they register in E3, the examinee management system. Eliminating this information from NCEES records will significantly reduce liability and minimize examinees' exposure to identity theft and fraud. State boards that require SSNs for licensure should collect this information when examinees file a licensure application.

**Fees** - Effective with the April 2014 administration, the fees for the PS and PE exams are increasing to \$250 plus any exam administration fees. There will no longer be a book charge for the PS, PE, or SE exams.

### **April 2014 Schedule & Deadlines**

**Spring 2014 Exam Dates** - The spring exams will be administered on **April 11 and 12, 2014**. The PS and PE exams and the Vertical Forces component of the SE exam will be administered **only** on **Friday, April 11, 2014**. The Lateral Forces component of the SE exam will be administered **only** on **Saturday, April 12, 2014**.

**Spring 2014 Registration** - Registration for the spring exam opened on **December 17, 2013**, and closed for examinees at midnight eastern time on **February 20, 2014**. The deadline for boards/testing services to mark candidates approved and confirm shipping information was midnight eastern time on **February 27, 2014**. To meet the fulfillment and shipping requirements, we cannot add candidates after this time.

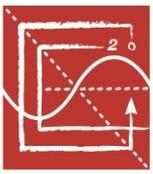
**Special Accommodations** - All requests for testing accommodations were handled through the E3 system by the registration deadline of **February 20, 2014**. These included accommodations for ADA and religious reasons and for active military service. More information about special accommodations is posted on the NCEES website at <http://ncees.org/exams/special-accommodations>. Member boards/testing services must provide all override information for approved ADA and religious accommodations to ensure that correct information is shown on a candidate's exam authorization.

### **October 2014 Exam Changes**

**PE Petroleum** - The PE Petroleum exam will have revised specifications starting in October 2014. The specifications are posted on the NCEES website at <http://ncees.org/exams/pe-exam/>.

**PE Agricultural** - The PE Agricultural exam will **not** be administered in October 2014. It has been revised and renamed the PE Agricultural and Biological exam and will be administered starting in April 2015 and in every spring administration thereafter.

Detailed information about NCEES governance can be found at <http://ncees.org/about-ncees/>.



# NCEES Launches Video Series

With the official transition of the FE Exam to computer-based testing on January 2, 2014, NCEES created a 7-week video series designed exclusively for examinees to introduce the aspects of the computer-based testing (CBT) experience.

The series debuted November 19, 2013, and each Tuesday thereafter, featured a new video covering topics such as: the reusable booklet provided for scratch work; how to flag questions for review; and how to search the on-screen reference handbook, just to name a few.



The first video in the series was the “*CBT Exam Day Experience*” chronicling a typical exam day at a Pearson Vue test



center, including the check-in process, locker storage procedures, how to request a break and more. You can view all of the videos by going to the special CBTuesday section on NCEES’ YouTube channel at [NCEES CBTuesday Video Series](#).

You can also access the most up-to-date information about the FE application and exam process on the *Application Process* page under the *Licensure* section of our website at [www.fbpe.org](http://www.fbpe.org) or go to NCEES’ website at [www.ncees.org/cbt](http://www.ncees.org/cbt) for more on the exam transition to computer-based testing.



## THERE’S STILL TIME FOR ENGINEERING AWARD SUBMISSIONS

In our last issue we highlighted NCEES’ call for submissions for their *Engineering Award for Connecting Professional Practice and Education*. Now in its 5th year, the award was established to promote the understanding of the value of licensure and to encourage partnerships between the engineering profession and education by recognizing college engineering programs for engaging their students in collaborative projects with licensed professional engineers.

The entry deadline for those interested in applying is **May 5, 2014**. NCEES invites EAC/ABET-accredited programs from all academic disciplines to submit collaborative projects that demonstrate a meaningful partnership between professional practice and education. Projects must be in progress or completed by **March 15, 2014**.

Projects submitted for consideration are evaluated on the following criteria:

- ⇒ Successful collaboration of faculty, students, and licensed professional engineers;
- ⇒ Benefit to public health, safety, and welfare;
- ⇒ Multi-discipline and/or allied profession participation;
- ⇒ Knowledge or skills gained; and
- ⇒ Effectiveness of display board, abstract, and project description.

The grand prize winner will be recognized at the NCEES annual meeting in August 2014. All award-winning submissions will be exhibited at the event and featured on the NCEES website, in NCEES publications, and in other related professional publications.

FBPE would like to encourage all of its EAC/ABET-accredited engineering schools to apply for this prestigious award.

Information about the Engineering Award along with current and past winners can be found on NCEES’s website at <http://ncees.org/licensure/ncees-engineering-award/>. Entry forms, instructions, project ideas and evaluation criteria can be found on <http://ncees.org/licensure/ncees-engineering-award/entry-instructions/>.

*This page contains a brief overview of recent news releases by NCEES concerning items that may be of interest to our engineering community. Updates published here are intended to be only a brief description so we encourage you to visit [www.ncees.org](http://www.ncees.org)*



# 2014 FICE Engineering Excellence Award Competition

## One Honor and 15 Grand Awards

By: *Debora Hall, FES Director of Communications and Florida Institute of Consulting Engineers*  
 Article Reprinted Courtesy of the FES-January 2014

**F**ICE's Engineering Excellence Awards (EEA) recognize firms in Florida for their original or innovative applications to complex projects and studies. This year, one honor and 15 grand awards will be awarded at the 98th Annual Summer Conference and Exposition's FICE Banquet to be held August 8, 2014, at the Marco Island Marriott. One Grand Conceptor award winner will be chosen from the grand awards as the overall best engineering project from the State of Florida. This recipient will be announced during the banquet. All grand award winners may also participate nationally in "the Academy Awards of the engineering industry," the 2014 American Council of Engineering Companies' (ACEC) Engineering Excellence Award competition.

The FICE Public Relations Committee selected the distinguished panel of judges representing government, media, transportation, education, environment/water resources, public works and architecture. Assembled in Tampa late last November were Deputy General Counsel **John W. Costigan, JD**, Office of General Counsel Florida Department of Agriculture and Consumer Services; Editor-in-Chief **Scott Judy**, ENR Southeast, **Terry Puckett, PE**, Florida Department of Transportation District I and VII Geotechnical Office; Civil and Environmental Engineering Professor and Department Chair Manjriker Gunaratne, PhD, PE, University of South Florida; Vice President/Sr. Engineer Manager **Ron S. Beladi, PE**, Neel-Schaffer, Inc.; FES President **Glenn E. Forrest, PE**, Utility Manager, MacDill Air Force Base for Government Services Group Inc. and 2013 President American Institute of Architects -Florida **Dan Kirby, AIA, AICP, LEED AP** with Jacobs/Kling Stubbins, respectively.



2014 judges (shown left to right) FICE Public Relations Chair Jonathan Sink, PE, Scott Judy, Ron S. Beladi, PE, Manjriker Gunaratne, PhD, PE, Terry Puckett, PE, Dan Kirby, AIA, AICP, LEED AP, John W. Costigan, JD, and FES President Glenn E. Forrest, PE.

The judges rated projects and studies on the basis of uniqueness and innovative applications; future value to the engineering profession; perception by the public; social, economic, and sustainable development considerations; complexity; and successful fulfillment of client/owners' needs, including schedule and budget. A special thank you to FICE Public Relations Chair **Jonathan Sink, PE** with Professional Service Industries, Inc. (PSI) for facilitating this competition. The winners in alphabetical order are:

### Grand Award Winners by Firm & Project

**AECOM Technical Services, Inc.**  
Davie Green Water Project

**AVCON, Inc.**  
SR 600 Pavement Rehabilitation

**Ayres Associates, Inc.**  
Courtney Campbell Multiuse Trail Bridge

**Carollo Engineers, Inc.**  
System 2 WTP Ion Exchange Treatment

**CDM Smith, Inc.**  
SFWMD Lakeside Ranch STA

**CH2M HILL**  
Wekiva Parkway (SR 429) PD&E Study

**FINLEY Engineering Inc.**  
Checked House Bridge Route 2 Design-Build

**Genesis**  
Franklin Boulevard

**Hazen and Sawyer, PC**  
Miami-Dade SDWWTP HLD Upgrade

**Hazen and Sawyer, PC and Federico, Lamb and Associates**  
C-51 Reservoir P3

**Mathews Consulting, Inc.**  
Duck Key Utility Improvements

**Parson Brinckerhoff, Inc.**  
Central Florida Water Initiative - Groundwater Availability

**RS&H – 3 projects**  
SR 408/SR 417 Interchange  
Mid-Atlantic Regional Spaceport Pad-0A  
Depot Avenue Rail-Trail Pedestrian Overpass

**HONOR–Firm/Project**  
**Kimley-Horn and Associates, Inc.**  
Celery Fields - Phase 3



Florida Institute of Consulting Engineers

**About FICE:** The Florida Institute of Consulting Engineers (FICE) represents the professional and business interests of professional engineers in private practice in Florida and their companies, serving to advance the profession of consulting engineering. FICE represents and promotes the business of engineering, the environment in which engineering is conducted, and the image of engineers in private practice. In these capacities, FICE serves as the state affiliate of the American Council of Engineering Companies (ACEC).

As the affiliate of the Florida Engineering Society's (FES) Professional Engineers in Private Practice (PEPP), we work to show how doing business with other FICE firms supports better business practices in Florida.

You can find more information about the excellence awards and FICE by going to their website at <https://www.fleng.org/FICE/aboutfice.cfm>. If you have any questions or would like more detailed information about the winners and their projects mentioned above, please contact **Debora Hall** at [dhall@fleng.org](mailto:dhall@fleng.org) or at 850-224-7121.

## So, What's Happened Since Last Issue...

In each quarterly Connection issue FBPE reports on what it's doing to maintain involvement with the different engineering colleges and student chapters and also to highlight their engineering related achievements and accomplishments. Since November, Board staff have been especially busy attending career expos, conducting licensure presentations and participating in different E-week activities.

### Engineering Career Fairs / Expos

FBPE has made attending engineering career /job fairs a part of its regular outreach to engineering colleges. With every fair attended, FBPE staff speaks to at least 75-100 students at each event, covering multiple engineering disciplines and communicating the importance of obtaining Engineer Intern (EI) status and the value in moving towards the ultimate goal of becoming a licensed Professional Engineer (PE).

Participating in these events allows FBPE to communicate all the latest information about the fundamentals of engineering (FE) exam and what to expect with the latest transition to CBT to students. With so many changes made effective January 2014 with the FE exam, FBPE has collaborated with NCEES to provide a multitude of collateral materials and resources to examinees and potential examinees such as: FBPE's Application and Licensure brochure; NCEES' Licensure and Practice Exam brochures; NCEES' Examinee Guide; a PearsonVue testing center location map for Florida examinees; YouTube video series overview; a one-page Useful Links reference page to everything for FBPE and NCEES; and copies of the latest FBPE quarterly newsletters.

On Tuesday, September 24, 2013, November 5, 2013, and again January 28, 2014, FBPE staff members, **Zana Raybon**, **Lisa Simmons** and **Shannon McCoy**, attended FAMU/FSU College of Engineering's Fall & Spring *Engineering Days*, and University of West Florida's *Engineering and Technology Expo*. These career fairs / expos provide much value to the students in so many ways. Each of the career services groups for the colleges are instrumental in planning these events and preparing undergraduates for careers in the "real world." Resume workshops, mock interviews, assisting and advising with job searches and professional development activities are just a few of the services offered by this group besides these "career days."



At these three events, engineering students from disciplines such as: civil, mechanical, electrical, computer science, environmental, industrial, etc, were exposed to over 130 employers and provided FBPE staff with the chance to answer questions from freshmen to graduating seniors about their applications, how to prepare for the exam and also discuss the experience necessary to qualify to sit for the principles and practice examination (PE). FBPE will continue to participate in these types of events so that we can supply students with all the information necessary to begin their engineering careers and become a more desirable candidate for employers.

All information related to the FE and PE application and licensure process can be found on our website at [www.fbpe.org](http://www.fbpe.org), under the *Application Process* page under the *Licensure* section.

To view pictures from events attended by FBPE and its staff go the *Your FBPE* section of our website at [www.fbpe.org](http://www.fbpe.org) and select *Events and Conferences*.

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## School Visits / Student Presentations

Another initiative in FBPE's collegiate outreach efforts is to visit with the deans, department chairs and student services' directors at each of the engineering colleges throughout the state. We began this endeavor last year visiting a number of schools to begin preparing and providing information specifically related to the FE exam transition to computer-based testing, as well as encouraging the promotion of professional licensure. As of November of last year, not only have we visited 10 out of 12 schools but we have also expanded our visits to include conducting student presentations to engineering classes and student chapters of engineering societies and associations.

On November 7, 2014, **Zana Raybon**, FBPE Executive Director, **Rebecca Sammons**, Executive Assistant, and **Shannon McCoy**, Public Information Officer, visited Florida Atlantic



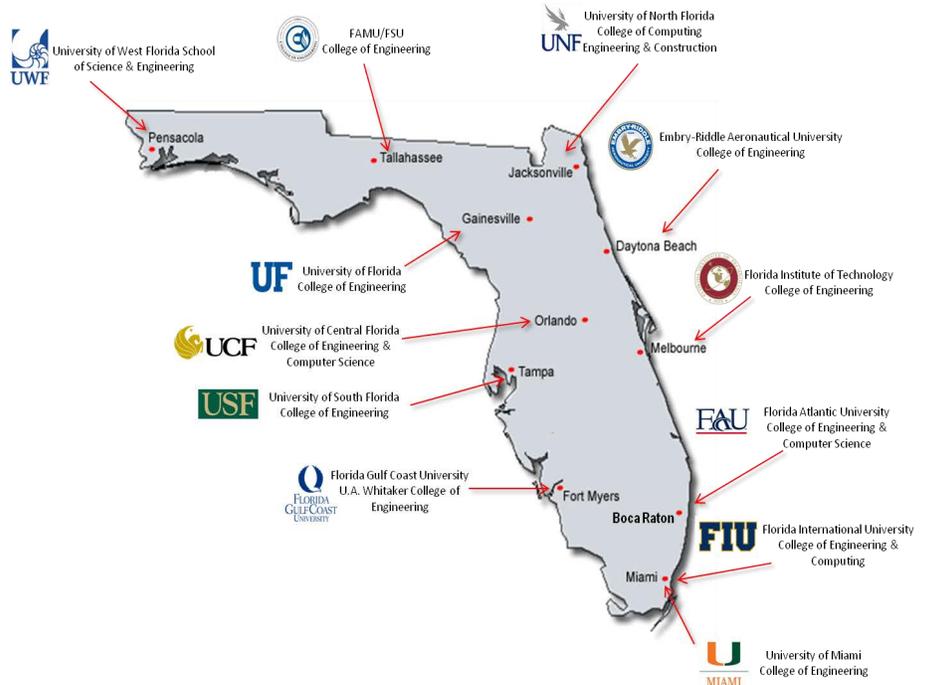
University (FAU) and conducted a presentation and question/answer session about FBPE, FEMC, the FE exam CBT transition, and the importance of obtaining a PE license. There were approximately 125 attendees including engineering students and faculty from the Department of Civil,

Environmental and Geomatics, as well as employees from the Florida Department of Transportation (DOT). FBPE would like to thank FAU's CECS Department of Civil, Environmental and Geomatics' **Digna Mejia**, Academic Support Services Coordinator, **Dr. Frederick Bloetscher, PE** Associate Professor, **Dr. Yan Yong**, Interim Chair and Professor, **Dr. Mohammad Ilyas, PE**, Dean and Professor for FAU's College of Engineering and Computer Science; and FAU's ASCE chapter for hosting and coordinating the event and providing lunch and refreshments. For more information about FAU and the College of Engineering and Computer Science go to their website at [www.eng.fau.edu](http://www.eng.fau.edu).

In addition, to visiting FAU in November, FBPE conducted similar presentations at Florida International University (FIU), Florida Gulf Coast University (FGCU), FAMU/FSU College of Engineering, University of Florida (UF), and the University of South Florida (USF) over the last few months. Whereas, we incorporate the FE CBT Exam transition into every presentation, we also try to include an engineer's perspective on importance and value of seeking and obtaining professional licensure; private industry vs. public industry; and the advantages of belonging to engineering related associations and organizations. When possible we have included Board members at these presentations to provide reference to their own personal experiences. The presentation given at FIU was conducted as part of student professional development arranged by **Evelyn Mojica**, and Board member **John Pepper, PE, SI** was on-hand to give his perspective on developing his engineering career. For more information about FIU's College of Engineering and Computing, go to their website at [www.cec.fiu.edu](http://www.cec.fiu.edu).



Similar to FAU's visit, FBPE conducted the same presentation and Q&A session at FGCU as coordinated by FES chapter Vice-President, **Robin Palmer**. Offered as an information session, over 40 students and faculty were in attendance. FBPE has also been to the FAMU/FSU College of Engineering on several occasions to speak to approximately 100 students in **Dr. Wei-Chou V. Ping, PE's** "Pre-Senior Design and Professional Issues" class along with Board member **Dr. Michelle Rambo-Roddenberry, PE**. On January 29, 2014 and January 30, 2014 FBPE visited UF's campus and presented two sessions, one with **Dr. Bruce Carroll**, Associate Professor and Undergraduate Coordinator for UF's Department of Mechanical and Aerospace Engineering class of about 200+ students and one with approximately 55+ graduate and undergraduate students associated with the Coasts, Oceans, Ports, Rivers Institute (COPRI) UF Chapter, arranged by **Patrick Miskel**, a coastal engineering UF graduate and UF COPRI Chapter President, **Uriah Gravois**. To find out more information about the FAMU/FSU College of Engineering, please visit their website at [www.eng.fsu.edu](http://www.eng.fsu.edu). For more information about UF's College of Engineering programs, go to [www.eng.ufl.edu](http://www.eng.ufl.edu). You can also find information about COPRI and UF's chapter at [www.asce.org/copri/Student-Chapters/UF](http://www.asce.org/copri/Student-Chapters/UF) or at [ufcopri.blogspot.com](http://ufcopri.blogspot.com).



FBPE's last stop for the quarter's school visits was USF. On Friday, January 30, 2014, FBPE conducted two presentations, one for **Dr. Mary Goodwin's**, "Foundation of Engineering" course with approximately 200+ students and another with **Eva Fernandez**, Assistant Director of Engineering Student Services, Experimental Learning with USF's College of Engineering and approximately 40 students. Vice Chair of the FBPE Board and USF Alumni, **William C. Bracken, P.E., S.I., CFM**, joined Board staff to provide additional input on his journey to obtaining professional licensure and what other opportunities have been created as a result of becoming a PE. He also discussed maintaining licenses in multiple states and an engineer's obligations to the profession and to protecting the health and safety of the public. For more information about USF's College of Engineering visit their website at [www.eng.usf.edu/](http://www.eng.usf.edu/).



FBPE has several more school visits scheduled for the coming months and hopes to continue making these events a regular part of its outreach efforts. If you are interested in having members of FBPE conduct a presentation about the FE and PE exam application and licensure process contact Shannon McCoy at [smccoy@fbpe.org](mailto:smccoy@fbpe.org).



## E-Week Activities

*National Engineers Week* is a very unique event and the only one of its kind. Started in 1951, by the National Society of Professional Engineers (NSPE), E-Week has become more than just a week-long occurrence, rather a year-round commitment to making a difference: a celebration of how engineers impact our world, an opportunity to increase public dialogue about the need for engineers and a time to bring engineering to life for kids, educators and parents. This year's theme, "Let's Make a Difference," is a time to inform people of exactly what engineers do. Engineers make a difference in all of our lives "from advances in life-saving medicines to more productive crop yields to clean drinking water."

E-Week is the opportunity to come together, whoever you are, engineers, engineering students, technicians, volunteers, children, etc. and celebrate accomplishments and share knowledge, experiences and enthusiasm for all that is engineering. An opportunity, as stated on Discover-E's website, to turn comments like, "I didn't know that", into exclamations of "I want to do that!"

Last year marked our first appearance and participation at National E-Week activities hosted by Florida's engineering schools. With so many activities scheduled during the week and course of the month of February it is difficult to attend every function but FBPE staff members, **Rebecca Sammons** and **Shannon McCoy** were able to attend several significant happenings at UF, USF and UNF.

## UF 2014 Engineers' Week- Engineering & Science Fair

On February 18-19, 2014, over 50 STEM related organizations within UF's College of Engineering held their annual *Engineering and Science Fair* comprised of interactive activities designed to allow students a hands-on view into multiple engineering concepts. Young students had the opportunity to meet and talk with current college engineering students and hear their personal accounts of the "college" engineering experience. Attendees also could participate in a short campus tour of the engineering departments, listen to mini lectures from industry professionals and also participate in a scavenger hunt.



The scavenger hunt consisted of numerous engineering questions that could only be answered by visiting each organizations booth at the fair. Some of the organizations represented within UF are its chapters in the Florida Engineering Society (FES), American Society of Civil Engineers (ASCE), National Society of Black Engineers, Society of Women Engineers (SWE), American Society of Mechanical Engineers (ASME), and the Institute of Electrical and Electronics Engineers (IEEE).

For middle and high school students this type of event is an excellent opportunity to gain exposure to the many engineering disciplines and get a glimpse of the types of projects and work that can be achieved when pursuing an engineering or science degree. For more information about UF's E-Week activities for 2014 go to [ufbec.org/eweek2014](http://ufbec.org/eweek2014).

## USF 42nd Annual Engineering Expo

This marks the second year that members of FBPE have attended USF's Annual *Engineering Expo*. Held on February 21-22, 2014, FBPE staff set up a exhibitor table and spoke to students about becoming engineers and why science, technology and math played an important part in engineering. FBPE also visited a number of the many demonstrations and hands-on activities with attending students.



The execution of USF's *Engineering Expo* each year is no small undertaking. Last year approximately 19,000 students, teachers, boy and girl scout troops, and families from local and surrounding areas attended. With over 10,000 slated to attend this year, the expo is an awesome setting for USF students to share their excitement for engineering by exposing these young minds in the 5th to 12th grade demographics on how math and science are its building blocks.

Exhibitors consisting of local area and national businesses, were encouraged to bring interactive exhibits displaying the latest innovations in engineering and technology and how they relate to our daily lives. Including USF's student chapters and organizations, companies like LEGOLAND, Florida, NASA, TECO, Busch Gardens, and Lockheed Martin provided over **80** demonstrations and information to all those attending. For more information about this year's expo go to their website at [expo.eng.usf.edu](http://expo.eng.usf.edu).



## UNF 2014 E-Week Awards Banquet & Dinner Dance

March 1, 2014 marked the conclusion of UNF's E-Week events, with an awards banquet celebration and dinner dance. Invited by UNF's E-week committee, FBPE was pleased to attend the event and help promote the many different student engineering projects and celebrate the nominees and winners of several prestigious UNF engineering awards. The evening's festivities included 12 displays highlighting projects including: UNF's ASCE Steel Bridge, Osprey Racing Team, IEEE Hardware-Robotics Competition, Prototype Bioreactor for Zero-Gravity, Wearable Gait Stimulator, Quad Rugby Wheelchair Trainer, Bar-Bot Software Design, Re-design of Harmon Stadium, and Engineering Services for Site Plan of Fire Station #61. Awards were also presented for *Engineer of the Year*, *Young Engineer of the Year*, *Technician of the Year*, *Professor of the Year* and *Teacher of the Year*.

As mentioned before, planning and implementing activities in celebration of E-Week is no minor task. It is a collaborative effort of many people that makes these events such a success and promotes the practice of engineering. FBPE would like to thank and acknowledge **Dr. Mark Tumeo, PE**, Dean for UNF's College of Computing, Engineering and Construction and Professor of Civil Engineering; **Janet Duffy** of Eisman & Russo, this year's UNF E-Week Chairperson, and **Lois Sumegi**, Director of Development for UNF's CCEC for coordinating participation with FBPE in UNF's E-week celebration. You can find out more about UNF's College of Computing, Engineering and Construction by going to their website at [www.unf.edu/cccec](http://www.unf.edu/cccec).

These events mark just a few of the wonderful things that are being done at a university and college level here in Florida to celebrate engineering, and FBPE would like to recognize all of those involved. We encourage you to go and visit all the college websites to view these events and their recent achievements and acknowledgments. You can access these sites by going to FBPE's website at [www.fbpe.org](http://www.fbpe.org) and selecting the *Collegiate* page under the *Your FBPE* section. More pictures from these events can also be found on our website under the *Events and Conferences* page in the section titled *Your FBPE*.



## Upcoming Events & Activities

**March 19-20, 2014**  
MATHCOUNTS® Competition

**March 20, 2014**  
UF Student Presentation on Licensure -  
Introduction to Civil Engineering Class

**March 27-29, 2014**  
2014 ASCE Southeast Student Conference

**April 2, 2014**  
FAU Concrete Expo & Fair

**April 8-10, 2014**  
2014 59th State Science & Engineering Fair

**May 8, 2014**  
2014 Statewide Job Fair

**May 16-17, 2014**  
Science Olympiad National Tournament



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**2013-2014**

**Florida Board of Professional Engineers**

The Florida Legislature found that it was necessary, in the interest of public health and safety, to regulate the practice of engineering in the State of Florida and thus created Chapter 471, Florida Statutes, the Engineering Registration Law. Under this law, the Florida Board of Professional Engineers is responsible for reviewing applications, administering examinations, licensing qualified applicants, and regulating the practice of engineering throughout the state. All members are appointed by the governor for terms of four years each.

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Under Section 471.038, Florida Statutes, administrative, investigative and prosecutorial services are provided to the Florida Board of Professional Engineers by the Florida Engineers Management Corporation (FEMC). FEMC is a non-profit, single purpose corporation that operates through a contract with the Department of Business and Professional Regulation. The FEMC Board of Directors is composed of seven members. Five members are appointed by the Florida Board of Professional Engineers and must be Florida registrants. Two members are appointed by the Secretary of the Department of Business and Professional Regulation and must be laypersons not regulated by the Board.

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