



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Connection

Volume 2 - Issue 2

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

LESSONS LEARNED: CONSTRUCTION ENGINEERING SERVICES

HOT WEATHER CONCRETE

Written by: Stanley J. Murphy, PE

Submitted by: Anthony J. Fiorillo, PE, CGC, LEED, AP

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In the concrete business, "hot weather" creates situations that require special procedures for proper concrete mixing, placing, finishing, protecting, and curing. "Hot weather" includes high ambient air temperatures, high concrete temperature, low relative humidity, and/or high winds. Any one of these conditions can impair the quality of freshly-mixed or placed concrete. This "Lessons Learned" briefly discusses the affects of hot weather and some construction practices to mitigate its impacts. The American Concrete Institute's publication ACI 305R-10 is an excellent reference for further information.

Effects of Hot Weather on Concrete?

The most pronounced effects of hot weather on concrete are an increased rate of setting and rapid water loss. Higher temperatures can cause a lower slump, and consequently a decrease in workability. Plastic-shrinkage cracking of placed and finished concrete is frequently associated with hot, windy weather, and is most often the result of rapid evaporation of moisture from the concrete surface. Hot weather can affect both the early and ultimate strengths of concrete. Although initial strength may be accelerated, the 28-day strength of concrete cured at elevated temperatures may be lower than that of concrete cured at more moderate temperatures.



A decrease in slump as mentioned above can lead to the addition of water onsite for increased workability. Addition of water beyond the amount required by the approved mix design can increase the water-cement ratio which can result in decreased compressive strength, an increased likelihood of shrinkage cracking, and a decrease in durability.

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FROM THE EXECUTIVE DIRECTOR

Summer is Upon Us...But We Are Still Busy as Ever!

The last quarter has proved to be yet another eventful time for the Board and, although most of us welcome the summer months as a time of vacations and fun in the sun here in Florida, we at FBPE are still busy as ever.

Renewal for Continuing Education (CE) providers officially concluded on May 31, 2013. As of July 15, 2013, we have renewed over 176 CE providers. If you are a FBPE provider of continuing education and have not already renewed, be sure to do so immediately. You can renew through myfloridalicense.com or contact our office at 850-521-0500, and select the "Continuing Education" option to assist with any questions.

With the end of provider renewal, we move forward with a random audit of CE credits for a percentage of all PEs licensed in the state of Florida, following the 2013 renewal. If you are selected for an audit, you will receive a letter from the Board requesting verification that you completed your continuing education during the previous biennium (four (4) hours of area of practice and four (4) hours of laws and rules). If your CE credits have already been reported, you will receive a letter verifying compliance with the CE requirement.

Several Board members and I attended the annual NCEES Southern Zone Meeting (Interim Meeting) in Biloxi, Mississippi on April 4-6, 2013. In attendance were former FBPE Board Chair, **John Burke, PE**, Board members **Anthony Fiorillo, PE**, **Michelle Roddenberry, PhD, PE**, **Kenneth Todd, PE**, **Richard Wolfarth, PE**, and FBPE Executive Assistant **Rebecca Sammons**. In addition to the election of Southern Zone officers, attendees discussed many business topics including the implementation of computer-based FE testing in January of 2014, industrial exemptions, mobility of licensure and outreach efforts. One significant update from the meeting was the announcement of the adjusted new FE CBT Exam rate from \$250.00 to \$225.00, as well as the appointment of several FBPE Board members to NCEES committees. You can read more about these appointments in our *Noteworthy News* section of the newsletter.

FBPE will have another group of Board members in attendance at the 92nd NCEES Annual Meeting coming up

on August 21-24, 2013, in San Antonio, Texas. At that time, further discussion and voting will take place on the topics discussed at the four earlier zone meetings, as well as the installation of NCEES officers.

FBPE Investigator, **Wendy Anderson**, and I attended the 61st Annual Conference for the Building Officials Association of Florida (BOAF) at the Daytona Beach Hilton from May 19-21, 2013. It was a great opportunity to meet with county and city building officials from across the State of Florida and share valuable information about the legal process for complaints filed with FBPE. We have participated in this event for many years and it continues to serve as both a great educational and networking venture for the Board and increases our visibility with those that work with our Florida engineers.

On August 1-3, 2013, **Wendy Anderson**, **Shannon McCoy** and I will attend the 97th Annual FES Conference in Palm Beach, Florida. In addition to our participation in the vendor expo, where we will distribute our latest Board materials and network, we will have the opportunity to meet with licensed PEs and students looking to advance their careers with professional licensure. We hope to see many of you there!

In closing, FBPE and FEMC evidenced another successful fiscal year, with the completion of both licensure and continuing education provider renewal, continuation of our collegiate outreach efforts, implementation of our first CE audit, and advancements towards a paperless and more interactive application process. You can read more about our accomplishments regarding licensure

renewal and disciplinary activity in our October FBPE *Connection* issue.

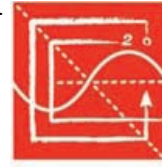
As always we encourage you to visit our website and Facebook page for the Board's latest information and activities in support of our commitment to promoting the practice of engineering here in the State of Florida.



Zana Raybon
FBPE Executive Director

NCEES Designates FBPE Board Members to Multiple Committees

In June 2013, the National Council of Examiners for Engineering and Surveying's (NCEES) President-Elect Patty Mamola finalized the 2013-2014 NCEES committee and task force appointments and FBPE is pleased that several Board members have been requested to serve.



NCEES
advancing licensure for
engineers and surveyors

Executive Director **Zana Raybon** has been assigned to two committees. The first is the Member Board Administrators (MBA) Committee which has been charged with assisting the Member Boards in addressing licensure processes and practices. This includes involvement with the CBT exam transitions, identifying outreach opportunities to publicize CBT in schools, societies, etc. and establishing paths to assist in uniformity of licensure among jurisdictions. The second appointment is the Public Outreach/ Communications Task Force, which is tasked with assessing survey results regarding the public's awareness of professional engineering and surveying as well as to consider what NCEES programs can promote and bring attention to those professions through hands-on activities, MathCounts, TwiST, etc.

Board Member **John Burke, PE**, was appointed to the Nominations Committee, whose responsibility is to serve for the nomination of officers for the next administrative year, while **Michelle Rambo-Roddenberry, PhD, PE**, will serve on the Education committee charged with acting in an advisory role for education issues related to ABET, requirements prior to initial licensure, continuing professional competency, and foreign degree or unaccredited program evaluation. Finally **Kenneth Todd, PE**, was assigned to the Definition of Engineering Task Force.

Congratulations to all on these recent appointments!

Florida Engineers Management Corporation (FEMC) Announces New Chair & Vice Chair

At the June 12, 2013, Florida Engineers Management Corporation (FEMC) annual Board meeting, **Jeff Arey, PE**, was announced the new Board Chair and **Shannon LaRocque, PE**, as the Vice Chair for the 2013-2014 term. Mr. Arey replaces **Kimberlee Debosier, PE** as Chair, however she remains an active FEMC Board member.

Mr. Arey, is a registered Florida Professional Engineer with more than 45 years of management and technical experience in transportation/infrastructure planning and engineering. He has directed and managed significant projects in program management, roadway design, transportation planning and traffic engineering. Mr. Arey has a diverse background as a transportation engineer, working extensively with multimodal transportation planning, traffic management, corridor evaluation and quality assurance. This is Mr. Arey's fourth year with the FEMC Board and first term serving as Chair.

Also a registered Florida PE, Ms. LaRocque is a veteran manager with over 24 years of public and private sector management experience, specializing in the successful execution of priority governmental initiatives and programs. Currently, she is an Assistant County Administrator with Palm Beach County, primarily responsible for the oversight of countywide economic and business development, housing and community development, and water utilities. Ms. LaRocque was most recently recognized by the National Society of Professional Engineers (NSPE) as their 2012 PEGASUS Award Winner, for her outstanding contribution to the advancement and practice of engineering. Ms. LaRocque has served on the FEMC Board for two years and this is her first term serving as Vice Chair.

We are pleased to have many talented and seasoned professionals as participating members on both Boards and are grateful for their dedication and commitment to FEMC and the success of the FBPE. For a full listing of FBPE and FEMC board members go to our website at www.fbpe.org.

Former FEMC Chair Honored for Years of Service

FEMC said goodbye to one of its long serving Board members, Roger L. Jeffery, PE, last October and at the June 2013 FBPE Board meeting, he was officially honored for his years of service. Mr. Jeffery was appointed to the FEMC Board as a member in June 2005 and served as the Board's chair from 2008-2009 and again from 2011-2012.

Mr. Jeffery currently resides in Orlando, Florida, and has extensive experience in project design for a full range of publicly and privately funded projects including commercial, institutional, high-rise residential, and governmental work. Project designs include structural steel, composite steel, reinforced concrete, post-tensioned concrete, pre-cast concrete, wood and specialty components. In addition to design he has experience with inspections, condition reports, and professional opinions for lending institutions, condominium associations, management companies, real estate firms, attorneys and insurance companies. Mr. Jeffery will continue to work as a licensed engineer in the State of Florida with AMEC Environment & Infrastructure.

Both FBPE and FEMC are thankful to Mr. Jeffery for his years of dedication to our organizations and we are proud to have had such an integral and respected member of the engineering community as part of our association.



(Pictured from left to right) Former FEMC Board Chair, Kimberlee DeBosier, PE, Former FEMC Board Chair, Roger L. Jeffery, PE, and current FBPE Chair, Warren G. Hahn, PE.

FDOT Secretary Ananth Prasad, P.E. Receives Prestigious Ben Watts Partnership Award

Article Reprinted with Permission from FES-Journal Issue July 2013



Ananth Prasad, PE, Secretary of the Florida Department of Transportation was recently honored by the Florida Department of Transportation (FDOT) and Florida Institute of Consulting Engineers (FICE) as the 2013 recipient of the Ben Watts Partnership Award. The award, which honors individuals who have made extraordinary contributions to the development of the effective partnership that now exists between FDOT and the consultant community, was presented by the 2012 award winner, Adrian B. Share, PE, Senior Vice President, HNTB Corporation, at this year's FICE Transportation Conference held May 22-23, 2013 which focused on the future of Florida's transportation industry.

Secretary Prasad is committed to furthering Governor Scott's commitment to creating jobs and lowering the cost of living through strategic transportation investments. He oversees the department's nearly 6,600 employees and a budget of over nine (9) billion dollars. Prasad has a total of 22 years of experience in transportation. Twenty of those years were with FDOT, where he previously held the positions of the Assistant Secretary for Engineering and Operations, Chief Engineer, Director of Construction and various positions in District 2. He is responsible for implementing many innovative ideas and contracting techniques, such as public-private partnerships (P3).

Named after former FDOT Secretary Ben Watts, the Partnership Award was established in 2001 to honor and recognize the close working relationship between the consultant community and FDOT. This is one of the best consulting engineers and DOT relationships in the U.S., according to Frank Rudd, CAE, CMP, Executive Director of the Florida Institute of Consulting Engineers.

Ananth Prasad, PE was also recognized by the Design-Build Institute of America, which recently announced the 2013 Design-Build in Transportation Leadership Awards. He was the recipient of the 2013 Transportation Owner Award. Prasad has been an outspoken advocate for streamlined and creative delivery mechanisms, while simultaneously working to improve the selection and procurement processes employed by the state. He was recently named the chair of the American Association of State Highway and Transportation Officials' (AASHTO) Standing Committee on Performance Management. The Committee is dedicated to providing state transportation departments with the expertise and resources to support performance-based management, and create a results-driven environment to maximize the performance of both transportation systems and organizations.

CHAIRMAN'S CORNER

WHAT IS FOREVER?

FOREVER, *that is the length of time that all Florida Board of Professional Engineer (FBPE) disciplinary records are kept.*

As a registered Professional Engineer in the State of Florida, if you have ever had a complaint filed against you, even if it was dismissed, and if you have had a disciplinary action taken against you, this information is retained in the Florida Board of Professional Engineers' archives **FOREVER**. Because the Florida Board of Professional Engineers is a public body, this information is available to the public upon request. Much of this information can also be available to the public via the internet.

Therefore, if you or your company apply to provide engineering services on a public project, it is possible that this information would be available to the panel or board reviewing your proposal or submission to conduct engineering for a project. Likewise, some private corporations also have policies of reviewing public records of consultants they may wish to hire.

If you are going to testify in a deposition as a registered Professional Engineer in the State of Florida, the information of any disciplinary action or complaint is available from the archives of the Florida Board of Professional Engineers to be made public during this testimony.

The Board has received requests from engineers to remove records of complaints and/or disciplinary action from the Florida Board archives, but Florida Statutes require that these records be kept in the archives **FOREVER**.

Unlike other professional boards, which have complaints and/or disciplinary action purged from their files after a period of time, the Florida Board is unique in that this information must be kept on the record **FOREVER**.

And so, it behooves every licensed Professional Engineer practicing engineering in the State of Florida to be diligent in their design and engineering practice so as to provide competent service to the public in accordance with the Florida Statutes and Rules of the Florida Board of Professional Engineers. If you happen to discover errors, omissions or other actions during your design and engineering practice that might cause someone to consider filing a complaint to the Board, it is in your best interest to take swift and positive action in order to minimize this possibility and to provide competent engineering at all times.

“Unlike other professional boards, which have complaints and/or disciplinary action purged from their files after a period of time, the Florida Board is unique in that this information must be kept on the record FOREVER.”

The Board receives an average of 13 new complaints per month. During the three year period of 2010 through 2012, 499 complaints were received. Out of the 499 complaints, 106 resulted in some sort of disciplinary action. The Board and the Probable Cause Panel review approximately 15 to 30 possible disciplinary cases every other month. A majority of the complaints are dismissed (80%). Still, a client can search the Board's records and ask about the complaint. Just asking this question could cause a cog in the wheel of obtaining that next important project. More importantly, when you total the number of disciplinary actions that the Board reviews over the average career of an engineer (30 years), approximately 1,000 engineers, out of approximately 35,000 Licensed Professional Engineers currently registered in the State of Florida, continuously fall into this category.

Again, the information on these complaints and disciplinary action is kept in the Florida Board's records **FOREVER** and this information is publically available **FOREVER**.

Warren G. Hahn, PE is a registered 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 first term as Chair of the Florida Board of Professional Engineers.



*Warren G. Hahn, PE
FBPE Chair*

Hot Weather Concrete Construction Practices

There are several basic precautions that should be considered to reduce the damaging effects of hot weather on concrete:

- > Use mix designs that are less susceptible to the affects of hot weather. The use of low-heat-of-hydration cement and certain admixtures (such as hydration retarding and/or water-reducing admixtures) are two common approaches.
- > Keep concrete as cool as reasonable. ACI 305R does not state a maximum “as-placed” or “as-delivered” concrete temperature, but 90°F is commonly specified. In some instances, substituting chilled water or shaved or chipped ice for a portion of the required mix water is needed.
- > Schedule large concrete pours in the early morning or evening when temperatures are cooler.
- > Limit the amount of time between concrete loading at the plant and placement and finishing at the site. This may suggest scheduling critical placements when traffic conditions are not congested.
- > Limit addition of water at the job site, except to adjust slump upon arrival (when permitted by mix design).
- > Avoid or limit the use of hydration accelerating admixtures.
- > Use temporary wind screens and water misting nozzles to reduce surface moisture loss during placement.

Initial curing is critical for concrete quality. Once the concrete has been delivered to the site, placed, and finished, efforts must continue to protect the concrete during curing. The most effective technique of curing is moist curing by continuously wetting the concrete surface, and it is the best method for developing the maximum potential for concrete strength and reduction of shrinkage cracking. Curing compounds are also very popular. While curing compounds can be effective, they must be sprayed onto the concrete in sufficient quantity and evenly to retain moisture in the concrete. The manufacturer’s recommendations should be followed to obtain the desired results. Curing compounds are typically not used for indoor floors due to possible adhesion compatibility issues with finished flooring materials.

Special attention should also be paid to the laboratory-cured concrete test cylinders. They should be stored on the job site for the initial curing period of approximately 24 hours at a

temperature between 60°F and 80°F for normal-strength concrete, and be covered to reduce loss of moisture. This typically requires a temperature-controlled concrete cylinder curing box that utilizes air conditioning, ice, or other means to maintain the cylinders between 60°F - 80°F.

Detailed planning for hot weather concrete is essential. A special preplacement meeting is highly recommended to clarify the requirements for hot weather concreting to address the wide range of possible actions, and to define responsibilities.

For more information about ECS Corporate Services, LLC, go to their website at www.ecslimited.com or for more details on the topic discussed in this article email Board member **Anthony Fiorillo, PE** at afiorillo@ecslimited.com.

Author & Acknowledgements

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*This article was submitted by FBPE Board Member **Anthony J. Fiorillo, PE, CGC, LEED AP** and reprinted with the permission of ECS Corporate Services, LLC. Mr. Fiorillo is the President of ECS – Florida, LLC, and serves on the Board of Directors for its parent company ECS, Ltd located in Northern Virginia. He is a licensed Professional Engineer and a Certified General Contractor in the State of Florida, and also possesses PE licensure in several other states.*

Mr. Fiorillo is currently serving his first term on the Florida Board of Professional Engineers.

FBPE Disclaimer

The views and opinions expressed in this article are those of the contributing writer and their organization and do not necessarily reflect the official policy, official position views or opinions of the Florida Board of Professional Engineers. FBPE does not endorse any recommendation or opinion made by a third party submitter and is not responsible for any use thereof.



Guides to Creating Building Code Compliant Documents

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

Engineers within the State of Florida whose practice involves the design of structures or systems within structures subject to Florida's building codes should be aware of the requirements found within **Florida Administrative Code 61G15-30 - 34**. These chapters provide guidance and requirements which constitute engineering standards of care. In part, these chapters list the basic information that is required by the engineer to be provided within plans and specifications.

61G15-30 Responsibility Rules Common to All Engineers

61G15-31 Responsibility Rules of Professional Engineers Concerning the Design of Structures

61G15-32 Responsibility Rules of Professional Engineers Concerning the Design of Fire Protection Systems

61G15-33 Responsibility Rules of Professional Engineers Concerning the Design of Electrical Systems

61G15-34 Mechanical Systems

For example, **Chapter 61G15-31** states in part: "Structural engineering documents shall identify the project and specify design criteria both for the overall structure and for structural components and structural systems. The drawings shall identify the nature, magnitude and location of all design loads to be imposed on the structure. The structural engineering documents shall provide construction requirements to indicate the nature and character of the work and to describe, detail, label and define the structure's components, systems, materials, assemblies, and equipment." To view a complete and current copy of **Chapter 61G15** go to the *Legal* section of our website at www.fbpe.org and select *Statutes and Rules*.

In addition, the Building Officials Association of Florida recently published a second in its series on guidance for design

professionals. This guide titled *A Guide to Creating Building Code Compliant Documents* serves to provide instruction and examples relating to what is required and expected of design professionals when preparing plans to be submitted for permit. The guide is broken up into four basic sections:

1. *Plan Review Overview;*
2. *Government Sheet Template;*
3. *Life Safety Plan Example and*
4. *Area Modification Calculator.*

The guide identifies general building code requirements pertaining to fire safety, life safety, structural integrity, approved materials, accessibility and energy efficiency. The guide also provides Plan Review Categories specific to structural, mechanical, electrical, plumbing and fuel gas designs. In addition, the Building Officials Association of Florida identified this guide as being applicable to the following projects:

-
- > New commercial buildings
 - > Additions to commercial buildings
 - > Alterations of commercial buildings
 - > New systems (Mechanical, Electrical, Plumbing, Gas, Fire Alarm, Fire Sprinkler, Etc.)
 - > Alterations to systems
 - > New One and Two Family buildings
 - > Additions to One and Two Family buildings

The stated purpose of this document was to simply help the designer understand the information that needs to be included in a code compliant set of construction documents. This is valuable information when you consider that engineers are required by

(Continued on page 9)

rule when signing and sealing a set of construction documents for permit to insure that those documents are code compliant among other things.

The first in the series was titled *Building Official's Guide to the Professional Practice of Architects and Engineers in Florida*. This document serves to provide guidance on what constitutes the practice of Architecture, what constitutes the practice of Engineering and what is considered incidental to each.

Both documents were developed by a joint task force comprised of members of the Building Officials Association of Florida (BOAF), AIA-Florida (American Institute of Architecture), and the Florida Engineering Society (FES). As such, they are public domain and are intended to be circulated for distribution and use. If you have specific questions on either of these documents please contact BOAF at www.boaf.net or FES at www.fleng.org.



BOAF's mission is to provide for the safety, health and welfare of the citizens of the State of Florida; through the education, development, maintenance and enforcement of building codes using unified strength and resources to attain a thriving business, community and association

environment. BOAF is dedicated to the building code enforcement profession and their goal is to foster communication between all groups associated with the construction industry. You can find out more about BOAF on their website at www.boaf.net.

AIA-Florida involves members in a statewide proactive effort to benefit the architect profession. Their mission is to "unite, educate and position architects to lead the shaping of Florida's future." For more information about AIA-Florida visit their website at www.aiafla.org.

AIA Florida

FOUNDED 1916



Florida
Engineering
Society

The Florida Engineering Society (FES) has been a statewide society of Professional Engineers since 1916 from all disciplines, that promotes the ethical and competent practice of engineering,

advocates licensure, and enhances the image of its members. FES serves over 3,500 members. For more information about FES and how to become a member visit their website at www.fleng.org.

*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 first term as Vice Chair of the Florida Board of Professional Engineers.*

Board Decision on CE Credits for Meeting Attendance



If you are a professional engineer residing in the State of Florida, you should have received a recent survey from the Board requesting your input whether to resume awarding continuing education credit for attendance at the disciplinary portion of the bi-monthly Board meetings. After a review of the survey results and further deliberation, the Board believes that it would be in the best interest of the profession to NOT resume offering the CE credit.

The Board and staff are confident there should be plenty of opportunities for PEs to obtain quality laws and rules continuing education from one of the many FBPE approved providers. However, if at any time you should encounter an inferior course, whether it is an area of practice course or a laws and rules course, we encourage you to take the time to alert the Board staff so that we may investigate further. It is our goal to make sure that the courses provided to professionals are relevant and appropriate. To report any issues with an education course or provider, or for general questions, please feel free to contact us at board@fbpe.org.

2013 Legislative Wrap-Up

Article Reprinted with Permission from FES-Journal Issue June 2013

2013 was a banner year for Florida Engineering Society (FES) / Florida Institute of Consulting Engineers (FICE) with regard to legislative activities. Liability protection for professional engineers was strengthened; the Consultant's Competitive Negotiation Act (CCNA) was defended from another attack that would dilute the qualifications-based selections of engineers and there was a surge in funding for infrastructure projects.

Contract Rights Legislation

After many years of fighting the good fight, SB 286 passed the Florida Legislature and was signed by the Governor. This law, which took affect July 1, 2013, will permit business entities providing engineering services to limit by contract the liability of their individual employees or agents. This statute will also protect architects, interior designers, landscape architects, surveyors and geologists that work for the firm.

The effect of SB 286 is that if a professional services contract complies with the newly enacted statutory requirements, those contracting with design professional entities will not be able to hold the individual design professional for their negligence. This will effectively abrogate the holding of the *Witt vs. La Gorce Country Club* case that had ruled that limitation of liability provisions in contracts were not enforceable to insulate individuals from professional liability.

Special thanks for our bill sponsors, Senator Joe Negron and Representative Kathleen Passidomo, as well as the hundreds of FES/FICE members who contacted their legislators to tell what this legislation meant to professional engineers in Florida.

Consultant's Competitive Negotiation Act

For the third year in a row, legislation was introduced that would have made drastic changes to the CCNA Statute and the way professional engineers are procured. Our members and legislative team are to be congratulated for the information and education that

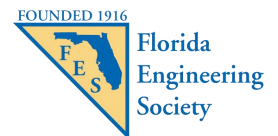


was given to our legislators on this issue. Because of this, neither the house or senate bills were heard in a committee after being introduced. Special thanks to Jason Brodner, Chair of the Government Operations Subcommittee, who told our members at *PE Days* that this bill will not be heard this year. The result is design professionals in Florida are still able to be procured by a qualifications based selection.

Infrastructure Funding

The overall budget for Florida increased by four (4) billion dollars from the current fiscal year, spurred by improved sales tax collection from improved employment and consumer spending. There were no raids on the State Transportation Trust Fund and funding for transportation projects were near an all-time high in the budget. Water and waste water funding also increased significantly as well as Everglades restoration, dry cleaning reclamation and alternative fuel funding.

To view the in-depth legislative report or to find out more information about FES go to www.fleng.org or send an email to fes@fleng.org.



For more information about the Florida Institute of Consulting Engineers go to www.fleng.org/fice/aboutfice.cfm



FEMC & FBPE EXPLAINED



*Submitted by: John J. Rimes, III, Esq.
FBPE Chief Prosecuting Attorney & FEMC Vice-President*

Many PEs have expressed uncertainty about the difference between the Florida Engineers Management Corporation (FEMC) and the Florida Board of Professional Engineers (FBPE aka “the Board”). Since the activities of FBPE and FEMC coincidentally impact professional engineers and firms offering engineering services, it is hardly surprising that the scope of the Board and FEMC’s areas of authority can appear to be overlapping and contradictory. But looking closely at the power granted by the Legislature to FEMC and the Board will remove that impression.

Remember only the Board makes final decisions about PEs and the engineering practice. The Board, which is a governmental body whose members are appointed by

the Governor, decides whether PEs should receive and maintain a license, adopts the administrative rules that PEs have to follow in their professional activities, decides whether PEs should be disciplined for failing to follow the engineering rules and statutes, and advises whether the statutes governing engineering need to be amended by the Legislature. FEMC doesn’t do any of the foregoing.

FEMC was created in Florida’s statutes through a legislative enactment in 1997. Its purpose is to provide the staffing necessary to implement Board decisions and to provide the infrastructure to allow the Board to regulate the engineering profession in Florida. As such, FEMC, which is a not-for-profit private corporation, employs regulatory specialists, investigators, prosecuting attorneys, public information officers, and clerical staff. These employees carry out the Board’s directives and rules under the watchful eye of the state government-represented by the Board and the Florida Department of Business and Professional Regulation (DBPR).

DBPR’s monitoring of FEMC’s activities is required by Florida Statutes and is codified in the contract that FEMC has with DBPR - a contract that must be renewed annually. In addition to the fact that all of FEMC’s activities are monitored by the DBPR under the terms of the contract, FEMC’s Board of Directors, to which the management of FEMC must answer - are appointed by the Secretary of DBPR and by the Board of Professional Engineers. Obviously, the Legislature set up a comprehensive scheme to make sure that FEMC would always be carefully scrutinized so that FEMC would not overstep its bounds and would adequately perform its duties.

The Legislature’s handiwork has paid off. FEMC has provided administrative services to the Board for over 15 years and has not sought any increase in funds for more than 10 years. As many PEs already know from their own business experience, small organizations, like FEMC, are much more agile in responding to technological innovations and providing targeted services than larger more hierarchical entities. Additionally, because the staff is involved only with engineering issues, the staff has gained and retained expertise which allows for additional economies to be realized in providing services.

The savings and innovations that FEMC has provided the state and the engineering profession are real and material. Thus, in nearly every year since its creation, FEMC has returned money back to the state coffers since the amount that the Legislature appropriated to regulate engineering was not needed to fulfill the Board’s mission. Moreover, while operating efficiently FEMC has also operated smartly. For example, next year FEMC will have created a virtually paperless workplace-an achievement that is well in advance of most of state government.

In short, the engineering profession is served by a meld of state government (the Board and DBPR) and a not-for-profit form of private enterprise (FEMC). By tying the best of both worlds together, the Legislature has provided a template that has made Florida the envy of engineers and regulators from other states.

For more information about FBPE and FEMC and a listing of all Board members go to our website at www.fbpe.org and select *About FBPE* or *About FEMC* from the *Home* page.



*Click on the facebook icon
to go directly to our page!*



Florida Rule 61G20-1.002 Alternative Design Method for Screen Enclosures

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



On April 24, 2013 rule **61G20-1.002**, titled *Alternative Design Method for Screen Enclosures*, which provides designers with an alternative method of designing screen enclosures, went into effect here in Florida.

Prior to this rule change, site-specific designed screen enclosures were required within **Section 2002.4** of the Florida Building Code to be designed such that the screen panels received and transmit minimum prescribed wind loads to the aluminum frames and then to the enclosures foundations. The loads to be used were found within **Table 2002.4** titled *Design Wind Pressures for Aluminum Screened Enclosures*.

Under this recent rule change, site-specific designed screen enclosures are now allowed to be designed based on portions of the screen walls removed, retracted, moved to the open position, or cut. In other words, once the panel is effectively removed it will no longer transmit loads.

According to one of the rule's authors, there were some questions as to the validity of the minimum loads. It was reported that testing with debris added to the wind stream found the minimum prescribed loads to be lacking. It was also stated that the intent of the rule change was to lower the loads that the structure is required to resist thereby making the screen enclosure more economical to build. It should be emphasized that this provision can only be utilized on site-specific designed screen enclosures.

Screen enclosure frames designed in accordance with the screen removal alternates of this rule, shall be designed using signed and sealed site-specific engineering and shall be designed in accordance with the wind load provisions of the Florida Building Code, Section 1609.1.1

While the Building Officials Association of Florida (BOAF) supported the development of an alternative method aimed at reducing anticipated damage to screen enclosures, BOAF spoke out against the "cutting" option. In its August 4, 2012, letter to the building commission, BOAF wrote:

There is precedent in Code requiring the homeowner to act, such as installing hurricane shutters, removing fabric awning materials, retracting or removing vinyl windows and windbreaks. These required actions do not contemplate damaging or demolishing portions of the structure as would be the case in the cutting of the screens. BOAF does not believe it is in the best interest of the citizens of Florida to require a destructive method, such as the cutting of screens, to preserve the integrity of their enclosure.

(Continued on page 13)

In either case, when a designer chooses this method, they place a burden on the property owner to "retract, remove, or cut panels of the screen enclosure" when "wind speeds are expected to exceed 75 mph." In addition when screen enclosures are designed in accordance with the screen removal alternate:

- > Retractable screen panels, removable screen panels, and screen panels identified to be cut shall be clearly identified on adjacent structural members with highly visible permanent labels.
- > The retraction of screen panels, removal of screen panels, or cutting of screen panels shall not require the use of ladders or scaffolding.
- > Engineering documents submitted with building permit applications shall identify the panels to be removed, retracted, opened, or cut.
- > If screen panels are required to be cut, the contractor is required to provide replacement screen for a one-time replacement of all screen and spline.

Because this recent rule change applies to site-specific designed structures and not master design manuals, Florida Statute **489.113** *Qualifications for Practice; Restrictions*, remains unaffected. Section **489.113(9)(b)** allows yet another means for PEs to design screen enclosures. The method within this section allows licensed engineers to prepare non site-specific drawings, specifications, plans, or master design manuals for use by licensed contractors on, among other things, swimming pools, spas, and screened enclosures.



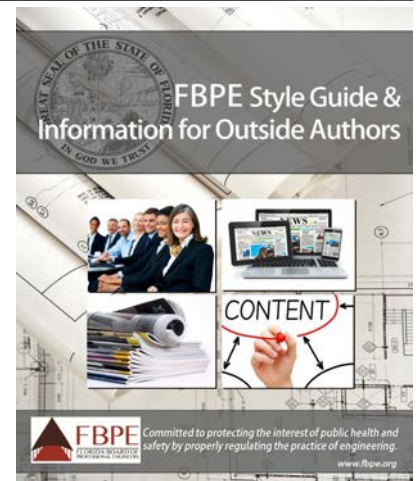
Whether designing master design manuals in accordance with Florida Statute **489.113**, the *Alternative Design Method for Screen Enclosures* or the minimum prescribed loads within the code, engineers in Florida are required to comply with the practice requirements set forth in the Florida Administrative Code Chapter **61G15**. **61G15-31**, titled: *Responsibility Rules of Professional Engineers Concerning the Design of Structures*, provides guidance and requirements which constitute engineering standards of care on all structures including screen enclosures. This chapter lists the basic information that is required by the engineer to be provided within plans and specifications. This section states in part: "The drawings shall identify the nature, magnitude and location of all design loads to be imposed on the structure. The structural engineering documents shall provide construction requirements to indicate the nature and character of the work and to describe, detail, label and define the structure's components, systems, materials, assemblies, and equipment."

To view a complete and current copy of Chapter **61G15** please visit our website at www.fbpe.org and select *Statutes and Rules* under the *Legal* section.

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 first term as Vice Chair of the Florida Board of Professional Engineers. **Photos appear courtesy of Bracken Engineering, Inc.**

FBPE Connection Article Submission

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 is now accepting articles from recognized professional organizations and academic institutions wishing to disseminate industry related information. To obtain a copy of the FBPE's *Style Guide and Information for Outside Authors* or to submit an article for consideration please visit FBPE's website at www.fbpe.org or email smccoy@fbpe.org.



So Exactly What is FELI Anyway?

Submitted by: J.W. Hunter, PE

The Florida Engineering Leadership Institute (FELI) is a joint program of the Florida Engineering Society (FES) and the Florida Institute of Consulting Engineers (FICE). It provides their members leadership training tailored to the practice of engineering in Florida.



This is a question we hear asked all of the time. The purpose of this article is to shed some light on this question and hopefully provide some answers that will allow you to understand the phenomenon and to see the value in the program and how it can benefit you, your firm, your community and your family.

FELI is the brainchild of John Zumwalt, PE and Fermin Diaz, PE who saw the need for a program to transition various senior managers into true leaders and provide them with the tools for future growth and development. The slogan for the program is “*Building Engineering Principals and Community Professionals.*” In the 10 years since its inception, over 300 engineers and surveyors from consulting firms, both large and small, and government agencies including FDOT, SFWMD and several cities and counties, have gone through the classes.

The original classes focused on the senior management of most of the consulting firms in Florida and dealt with topics such as personality types and relationships based around the PeopleMap system developed by Dr. Michael Lillibridge, as well as, speakers from various organizations who focused on leadership topics. Over the years the program has evolved as the class member demographics have changed. The Core Curriculum has six focal points: Personal Leadership, Organizational Leadership, Governmental Leadership, Community Leadership, Economic Leadership and Professional Leadership.

The most current information is found on the FES Website, www.fleng.org, which has the following information on the FELI link:

Mission

The Florida Engineering Leadership Institute (FELI) was created with the mission to transition engineering professionals into community professionals and leaders within our societies, communities, and workplaces - an important step in realizing our ultimate goal of professional engineers helping to shape society worldwide.

Through its initial 10-month class, FELI enhances the leadership skills of its participants and sets out a clear pathway to put these

skills into practice serving our profession and our communities. FELI also provides networking across the current and past classes, serving as an outreach group to business and community leaders. By fostering interaction that puts training into practice, FELI achieves its mission to “*Transform Leadership Opportunities into Reality.*”

Program Scope

The Florida Engineering Leadership Institute is more than a “training program.” It is a metamorphic experience in which the student transitions from a professional **manager** to a fully engaged **leader** equipped with a vision, a mission, the personal connections, and the know how to effectively employ their talents in the service of their community and profession.

FELI runs from November through August and consists of six sessions held in key cities throughout Florida. Four of the six programs begin with a reception on Thursday evening, an all day meeting on Friday, and concludes at noon on Saturday. Often there is an optional golf or other outing offered on Thursday. One session is held in conjunction with the *Professional Engineers Legislative Days* in Tallahassee and gives students the opportunity to see Florida government in action, as well as, personally meet their state representatives. The final session is held concurrently with the *FES/FICE Annual Summer Conference and Exposition* where graduation is celebrated during the opening general session.

Speakers and topics are selected to instill the student with two primary understandings:

1. A large-scale perspective of the State of Florida and its engineering profession; and
2. The individual’s strengths as a leader and how to best use them to serve their state, local community and profession.

To achieve a more “global” understanding of Florida, participants study its government, its politics, its place in the world, its current policies and concerns, its economy and its future. In combination with this, students consider how these entities impact the engineering profession.

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By virtue of our speaker selection, students are able to interact with state leaders from both the public and private sectors allowing them to form personal connections. Our choice of activities, limited class size, and the focus on fellowship creates a solid bond among class members. Alumni are invited to various functions to enable students to forge an additional link in their ever-expanding network. Students progress through a series of trainings in which they identify the qualities, habits, and mindset of a leader. Then, they learn to elicit and cultivate these characteristics from within themselves. Finally, they receive the motivation and direction to put their leadership into practice in the service of our state and profession. This program is intended to develop a vast network of community professionals and business leaders that will boost the positive profile, stature and public perception of engineering professionals in Florida.

Governance

The Leadership Institute Steering Council (LISC) is responsible for the coordination and implementation of the program. The LISC serves under the overall guidance of the FES and FICE Board of Directors.

The LISC shall consist of the following: a Chairman, Vice Chairman and a representative of each graduating class. Class representatives include members from each geographical area of the state. Strategic, logistic, administrative and planning assistance is provided by the FES/FICE Director of Continuing Education.

Selection Committee

The Selection Committee is responsible for assisting in the recruitment of qualified applicants and the promotion of the program. The Committee is responsible for the review and recommendation of qualified applicants to the LISC for their consideration and approval.

Selection Criteria

We seek motivated individuals who will use their leadership abilities for the long-term benefit of Florida as demonstrated by:

- A commitment, motivation and interest in serving the profession of engineering in Florida;
- A concern for Florida's welfare, demonstrated by past community, professional and statewide activities;
- A personal and professional interest in seeking to be in a key volunteer, appointed or elected state, local or regional leadership role profiled in the statewide community of Florida; and
- Potential or existing occupational responsibilities that have significant influence on important economic, growth management, environmental or infrastructure issues facing the state.

The selection process will target individuals who will enhance the value, stature and exposure of being a class member and Alumni of FELI.

In order to ensure an effective learning environment, the Florida Engineering Leadership Institute class size is limited to 40 individuals: therefore:

- preference will be given to candidates with at least 10 years of engineering-related experience; and
- preference will be given to members of the Florida Engineering Society (FES) or employees of firms that are members of the Florida Institute of Consulting Engineers (FICE)

All applicants will be notified in writing of their selection status. The LISC will be responsible for the approval of the roster of class participants.

Application Process

Engineers can apply in two ways: preparation of the full application or filing a Notice of Intent to Apply prior to completion of the full application. Forms and fees are shown on the FES Website at the link: <http://fleng.org/leadership.cfm>.

Alumni Membership

To receive the full benefit of the Florida Engineering Leadership Institute, continued involvement after graduation is a must. The commitment one makes to leadership training is not merely to oneself, but also to the community of Florida and its successive leaders as well.

Membership requires: graduation from the Leadership Class and payment of either an annual Membership Fee (\$25) or the Lifetime Membership Fee (\$250). Dues are payable in conjunction with the FES membership dues.

Activities

Activities sponsored by FELI consist of two major functions: interaction with the current class and programs designed to target alumni.

Alumni interaction with the current class consists of attendance at the receptions held at the opening of each FELI session, participation in the golf outing held at each FELI session, and other class-related activities such as Poker Tournaments and Class Projects.

The Alumni activities consist of two major areas. Receptions designed to provide social and networking opportunities for Alumni, and participation in activities and programs sponsored by our sister organizations, FES, FICE and the Florida Engineering Foundation (FEF).

In addition, alumni members have the opportunity of participating in group interaction through the social networking site, *LinkedIn*.

So what does this all mean? As one senior manager of a large international consulting firm said "*Being a graduate of FELI means*

(Continued on page 16)

that you will never walk into another engineering related function in the State of Florida and not know or have a direct connection with someone else in the room.” It means that you will learn the Leadership skills that will help you move forward in your life, your profession and your community. It means that all of those management, self-help and training courses that you have had in your career will all of a sudden come into focus and you will be able to apply them effectively and efficiently in all aspects of your life. It means that you will seek out opportunities to become more involved in your profession and community and find ways “to give back.” It means you will understand what it means when someone says “*FELI changed my life!*”

For more information about FELI , go to their website at www.fleng.org.



FELI 2004 Graduating Class



FELI 2013 Graduating Class

Author & Acknowledgements

*This article was written by **J.W. Hunter, PE**, who is an Assistant Vice President and Area Construction Manager for Parsons Brinckerhoff, Inc. and a registered Professional Engineer in the State of Florida. He is located in Tallahassee, Florida, and is a 1981 graduate of the University of Florida. Mr. Hunter was a member of the 2008 FELI Class and currently serves as the Chairman of the Leadership Institute Steering Council.*

The class photos that appear with this article appear courtesy of FELI.

Mark Your Calendar!

July 2013

31 FES/FICE 97th Annual Conference & Expo

August 2013

1-3 FES/FICE 97th Annual Conference & Expo

7-8 FBPE Board Meeting

21-24 NCEES 2013 Annual Meeting

27 FEMC Board Conference Call & Audit Update

September 2013

2 FBPE Office Closed - Labor Day

6 FEMC Board Ops Conference Call

17 Application Review & PCP Meeting

24 FAMU/FSU College of Engineering-2013 Fall Engineering Day

October 2013

1-2 UF Fall 2013 Career Showcase

9 Embry-Riddle Industry/Career Expo

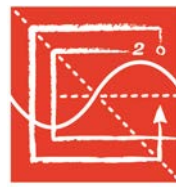
9 FEMC Board Meeting

9-10 FBPE Board Meeting

25 NCEES PE Exam

26 NCEES FE Exam

Board meetings and other scheduled activities can also be found on our calendar located on the Home page of www.fbpe.org.



NCEES ANNOUNCES WINNER OF 2013 ENGINEERING AWARD

On June 10, 2013, NCEES announced Cleveland State University Civil and Environmental Engineering Department as the grand prize winner of the 2013 NCEES *Engineering Award for Connecting Professional Practice and Education*. The award jury met June 4, 2013, in Clemson, S.C., to select the \$25,000 grand prize winner.

The department received the prize for its submission *Design, Funding, and Construction of the August Pine Ridge School/Hurricane Shelter in Belize*. For the project, civil engineering students from the university's chapter of Engineers Without Borders collaborated with faculty, professional engineers, and allied professionals to design and construct a building that would not only provide additional classroom space for a Belize school but also serve as a hurricane shelter for the local community.

The jury praised the project for demonstrating the value of collaboration and the challenge of finding improvised, local solutions.

The jury selected five additional winners to receive awards of \$7,500 each:

- > Northern Arizona University Department of Civil Engineering, Construction Management, and Environmental Engineering - *Paper Pulp Sludge Characteristics and Applications*
- > Seattle University Department of Civil and Environmental Engineering - *Design Options for a Creek Crossing for a Utility Company*
- > Seattle University Department of Civil and Environmental Engineering - *Structural Evaluation and Retrofit of a Warehouse*
- > University of Nevada, Reno Department of Civil and Environmental Engineering - *Capstone Design Project - SouthEast Connector*
- > University of Texas at El Paso Department of Civil Engineering - *Multidisciplinary Design of a Sustainable, Environmentally Friendly, and Affordable House*

The NCEES *Engineering Award* recognizes engineering programs that encourage collaboration between students and professional engineers. EAC/ABET-accredited programs from all engineering disciplines were invited to submit projects that integrate professional practice and education. The winners were selected by a jury of NCEES members and representatives from academic institutions and professional engineering organizations. Profiles of the winning submissions are available online at <http://ncees.org/award>.

"Projects like these are innovative ways to teach students about the vital importance of technical competency and ethical practice in the engineering profession," said NCEES President Gene Dinkins, PE, PLS. "We hope they will inspire other engineering programs to introduce similar collaborations."

This page contains a brief overview of recent news releases by NCEES concerning items that may be of interest to our engineering community. These updates published here are intended to be only a brief description so we encourage you to visit www.ncees.org for full releases and their latest and most up-to-date information.

APPROVED CALCULATOR LISTING FOR OCTOBER 2013 EXAMS



To protect the integrity of its exams, NCEES limits the types of calculators you may bring to the exam room. The following is the approved list of calculators for use in the October 2013 exam administrations:

- ⇒ **Casio:** All fx-115 models. Any Casio calculator must contain fx-115 in its model name. Examples of acceptable Casio fx-115 models include but are not limited to the following: fx-115 MS, fx-115 MS Plus, fx-115 MS SR, fx-115 ES, and fx-115 ES Plus.
- ⇒ **Hewlett Packard:** The HP 33s and HP 35s models, but NO others.
- ⇒ **Texas Instruments:** All TI-30X and TI-36X models. Any Texas Instruments calculator must contain either TI-30X or TI-36X in its model name. Examples of acceptable TI-30X and TI-36X models include but are not limited to the following: TI-30Xa, TI-30Xa SOLAR, TI-30Xa SE, TI-30XS Multiview, TI-30X IIB, TI-30X IIS, TI-36X II, TI-36X SOLAR, and TI-36X Pro.

Calculators not included within the above descriptions are not permitted in the exam room. Examinees possessing unapproved calculators during the administration of an exam are subject to dismissal from the exam site.

Renewal, Compliance Audits & Exams, Oh My!

The Board has completed a successful renewal period this year, ending February 28, 2013.

The renewal process was completed by the vast majority of licensees online through the [myfloridalicense](#) portal. The Board received only a small percentage of renewals by mail and hopes to move even closer to 100% online renewals for the 2015 renewal period. By the close of renewal, the Board had renewed 31,158 licenses. This is in the upper 90th percentile ranking and shows the diligence of Florida license holders in managing their license activity. The remaining license holders contacted the Board upon realizing they had not renewed, and the Board is aiding those individuals with completion of their online renewal. If you find that you have not renewed your license, you may contact the Board office and the renewal desk will verify that you have the required continuing education and then assist you through the delinquent renewal process online. The Board encourages anyone who has not utilized the [myfloridalicense](#) portal to establish an account for their license to do so in order to manage their licensure information more effectively.



Following the completion of engineer renewal, the Board will now begin Compliance Audits of the continuing education requirement. Although the Board had modified *Rule 61G15-22.006, F.A.C.*, this past year, which eliminates the required reporting of continuing education to the Board, there is good indication that licensees are still having their credits reported. While reporting is not required, we still recommend that licensees report their credits to the Board when they are earned. You may simply email a copy of the completion certificate to the Continuing Education desk in the Board office if the provider does not electronically transmit the credits. We encourage all providers to continue to report the credits electronically. If they are not Board approved, we encourage them to apply to the Board for approval so they may report credits electronically. If you are chosen for the compliance audit and your record shows a shortfall of the continuing education requirement, you will be contacted by mail. You will need to supply proof that you completed the requirement during the biennium by submitting copies of the completion certificates. Licensees and providers are both required to maintain record of the hours earned for four years (two renewal periods). We have taken a random sample of the licensee base and are currently in the process of auditing them.

Additionally, the fundamentals examination area of our office is working with and wrapping up applications for the last paper and pencil Fundamentals of Engineering (FE) examination. It appears there will be a strong exam base for the October 2013 exam with some applicants hoping to pass the last paper and pencil exam and not wanting to wait for the computer version. The online exam beginning in 2014 will allow for a wider range of exam date options for the examinee and much faster grade notification. For more information you may visit our website at [www.fbpe.org](#) and obtain the most recent FE exam information within the *Licensure* section, or go to [www.ncees.org](#).

The exam application dates for the PE exam in April of 2014 are set and initial applications must be received by our office no later than **October 11, 2013**. All supporting documents for these applications must be received by **December 13, 2013**. The 2014 FE exam dates have now expanded due to the conversion to the computer-based exam and any application submitted after June 12, 2013 will be processed for the next available exam date in 2014. For more information on FE exam dates for 2014, you can check at [www.ncees.org](#). There will be more information provided on the FBPE website and the NCEES website following the October exam administration.

This biennium is shaping up to be a productive period and the Board is updating its application processing system using the new VERSA program utilized by the state. This will help us process and maintain a solid database and service the licensed engineers more efficiently. By updating our system, we will have IT support and abilities to update and streamline our processes for our licensees.

The Board is always looking to improve its service to our licensees and welcomes your comments. Feel free to contact us at board@fbpe.org or at webmaster@fbpe.org.

Calling All Engineering Companies!!! How to Obtain a Certificate of Authorization

*Submitted by: Rebecca Valentine, FEMC Licensure Analyst
Wendy Anderson, FEMC Investigator*

The State of Florida currently has around 5,600 Certificate of Authorization holders. A Certificate of Authorization allows a company to offer and provide engineering services in this State. The services can be provided through a business organization, including a partnership, corporation, business trust, fictitious name, or other legal entity. There are a few steps to be taken in order to obtain a Certificate of Authorization. The Application for Certificate of Authorization is available on the Board's website www.fbpe.org.

Step 1

- Complete the Application for Certificate of Authorization

Step 2

- Corporations, Limited Liability Companies, Partnerships, and other forms of business organizations must provide proof of existence and proper registration status with the Florida Department of State. Visit www.sunbiz.org for forms and instructions.
- If you are operating as an individual, under a fictitious name, provide proof of having registered with the Florida Department of State. Visit www.sunbiz.org for forms and instructions.
- If you are operating as a company and as a d/b/a (fictitious name), provide proof of having registered both the company and the d/b/a (fictitious name) with the Florida Department of State. Visit www.sunbiz.org for forms and instructions.

Step 3

- Choose a Principal Officer.
- If you are a business entity other than a Partnership or Limited Liability Company, the Principal Officer must be an officer of the company and must hold an active State of Florida Professional Engineer License. If the Principal Officer is not named as the President, Vice President, Secretary or Treasurer of the Corporation, then the Application for Certificate of Authorization must be accompanied by documentation from the entity's charter or bylaws which provides the title of the officer and that the PE named as such officer is empowered to bind the corporation in all of its activities, which fall within the definition of the practice of engineering.
- For Partnerships, the Principal Officer must be a partner of the Partnership and must hold an active State of Florida Professional Engineer License.
- For Limited Liability Companies, the Principal Officer must be a Managing Member of the company and must hold an active State of Florida Professional Engineer License.

Role and Responsibility of the Principal Officer

There seems to be a lot of confusion over the role and responsibility of the Principal Officer (Qualifier). Being named Principal Officer for purposes of holding a Certificate of Authorization simply means that the individual named will ensure that all activities that fall within the definition of "practice of engineering" are performed in accordance with the laws and rules (Chapter 471 Florida Statutes and Rule 61G15 Florida Administrative Code) associated with holding a Certificate of Authorization. While not intended to be all inclusive, below is a list of items for which the Principal Officer has responsibility:

- Ensuring that a non-engineer does not sign engineering documents;
- Ensuring that all final documents signed and sealed by a Professional Engineer working through the entity include his or her name and PE number, the name, address, telephone number and Certificate of Authorization number of the company on final documents;
- Ensuring that the title block for the company, when utilized, contains all of the information required under the rule; and
- Ensuring the timely renewal of the Certificate of Authorization as required by the Board (every two years).

There is no language contained in the laws associated with Certificates of Authorization that require the qualifier to have any authority over monetary decisions, personnel decisions, purchasing decisions, etc. Any such powers granted to the qualifier would be granted solely by the company and not regulated by this Board.

More information on Certificate of Authorization can be obtained by contacting Rebecca Valentine at (850) 521-0500 or by email at rvalentine@fbpe.org. Questions or concerns about a business operating without a certificate of authorization can be directed to Wendy Anderson at (850) 521-0500 or by email at wanderson@fbpe.org.

RECOGNITION

SPECIAL

FBPE would like to congratulate all of the candidates that successfully passed the April 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!!!

Vincent Abitino
Mohamed Abouelella
Rafael Acevedo
Mathew Adamira
Stephen Adams
Adam Aguila
Wooseok Ahn
Omar Alam
Francisco Alcalá Salazar
Miguel Aldaz
Ruebin Alicea
Aaron Allen
Gioser Alonso
Dania Alvarez
Fernando Amado Mateus
Sarah Amritt
Casey Andersen
Casey Anderson
Jane Anstey
Kristy Apostol
James Appler
Rafael Arango
Michael Ares
Christopher Armada
Mariam Armanious
Samuel Armstrong
Donald Arsenault-Flachmeier
Jeremy Ashlock
Glen Ashworth
Austin Atkins
Orfely Auguste
Russell Aveney
Aditya Ayithi
David Baber
Christopher Bacallao
Scott Baesler
Francis Bain
Caitlyn Ballweber
David Bancroft
George Barbari
Joseph Barbera
Mauro Barbosa
Razvan Barcan
James Barfield
Amy Baricevich
Erick Barnum
Brandon Barry
Stewart Baskin
Bradley Baskind
Bradley Baugh
Ian Beason
Joshua Becker
Felipe Behrens Sesso
Hamid Belfassi
Jose Benitez
Brandon Bentley
Victor Benziger
Shannon Berger
Jocelyn Berglund
Keith Beriswill
Leonardo Bermudez
Santiago Bermudez
Fady Beshara
Amaris Beza
Purnajyoti Bhaumik
Kyle Binninger
Troy Bishop

Austin Black
Hickel Blaise
Michael Blanchette
Daniel Blaylock
Brian Bleakly
Joel Blikstad
John Boes
Lauren Boes
Joseph Bolich
Heather Bolton
Eric Boor
Michael Bornick
Benjamin Boss
Jeffrey Bossert
Matthew Bossick
Daniel Boston
Jorge Botero
Michael Bowers
Austin Bracy
Kevin Brandewie
Thomas Breen
Jonathan Brkich
Wendell Brokaw
Brian Brooker
Matthew Brosman
Corey Brown
Michael Brown
Nicholas Brown
Kenneth Brown
Chris Brunson
Jonathan Brush
Charles Bryant
Patrick Buddenbrock
Lauren Burack
Brian Burtscher
Ryan Bush
Roberto Bustamante
Elsa Cabrejo
Eileen Cabrera
Janice Cabrera-Frias
Samuel Cain
Jared Calhoun
Ramon Canseco
Sarah Caponigro
Vincent Caputo
Matthew Carlock
Matthew Carmichael
Andrew Carpenter
Wade Carreno
Fraya Cassier
Edwin Castilla Rodriguez
Dennis Castro
Anthony Celani
Guillermo Chacon
Conrad Chandler
John Chandler
Virgie Charlery
Edward Charles
Corey Chascin
Daniel Chaviano
Jannelle Chaviano
Bruno Chiappe
Vincent Chiu Yeu
Hsiang-Yu Chou-Hoofman
Jason Christopher
Francis Ciccone
Gustavo Cifuentes-Mejia

Keith Clabaugh
Daniel Clark
Tim Clark
Bobby Claxton
Benjamin Clayton
Scott Cline
Geidy Coello
Kevin Collier
Anthony Collins
Makyla Conklin
Shawn Conn
Michael Conner
Daniel Coorey
Alejandro Cosano
Eduardo Costa
Aaron Cotton
Craig Coughlin
Nicola Cowap
Bradley Cox
Alan Craigo
Vineesh Crawford
Pedro Crespi
Katie Cribbs
Teresa Cruz
Courtney Currie
Alyson Dagly
Leah Daniel
Alexandra DaSilva
Kshipra Dave
Bradley Davis
Cody Davis
Matthew Davis
Steven Davis
Dustin Davison
Nicolas De Armas
Alban De Crecy
Trisha De Torres
Anthony Deabreu
Michael Dean
Kady Dearing
Joseph Debono
Caitlin DeGel
Francisco De la Torre
Joaquin Delacruz
Daniela Delgado
Gabriel Delgado
Desi Delgado
Fabio Delgado
Shimelis Dessu
Nicholas Devito
Claudio Diaferia
Ambar Diaz
George Dick
Meagan Dickey
Kevin Dickinson
Austin Dill
Nathan Dodge
Dawn Dodge
Jacob Dodson
Kaitlin Dombrowski
Cory Dorman
David Doss
Sebastien Doucet
Travis Douglas
Chelsea Downs
Kristiana Dragash
Samuel Duhs

Jason Dunn
Matthew Dysko
Adam Eaches
Christopher Eckert
Sarah Edwards
Jamison Edwards
Tyler Elsey
Heather Elsner
Tyler Esposito
Alexander Estrada
Alejandro Estrella
Brian Evans
Bryant Facey
Kermit Falk
Trevor Falk
Christopher Fannin
Sarah Faraji
Janet Fay
Chardonny Fenton
Cyril Fernandez
Raquel Carolina Fernandez Otero
Anne Ferrando-Klemet
Brandon Ferrante
John Ferreira Hernandez
Michael Fesdjian
Pedro Fiallo Reyes
Lisa Finneran
Lachelle Fisher
Stewart Fisken
Heather Flavell
Nicholas Fletcher
Larry Flood
Raymond Flynn
Julia Focaracci
Graham Foreman
Dustin Forsyth
Jason Foskey
Thomas Fowler
Sergio Frago Sousa
Manuel Francis
Caitlin Frank
Cameron Frazier
Kevin Freeman
Seth Freeman
Kevin Freeman
Michael Freidin
Dylan Froman
Paul Fulks
James Fussell
Patrick Gallagher
Patrick Gant
Vielka Garcia
Natalie Garganta
Britton Garmager
Diego Gaspard
Garrett George
Mena George
Dajana Gibson
Edward Gillett
Matthew Giordano
Camilo Giraldo
Tom Glasser
John Glenn
Jodi Godfrey
Donnie Godwin
Vinay Goel
Daniel Goff

Jose Gomez
Maria Gomez
Aramis Gonzalez
Juan Gonzalez
Aaron Gonzalez
Liz Gosselin
Adam Gourley
Vincent Granatino
Andrew Grant
Eric Grant
Adam Grantham
Nicholas Green
Daniel Greenberg
Thomas Gritter
Julian Guevara
Marcos Guevara
Ben Hahne
Louna Hall
Robert Hall
Justin Hall
Michael Halley
Dustin Hampton
Jodie Hansing
Johnathon Hardy
Ah mad Hares
Benjamin Hargis
Daniel Harper
Amrit Harripaul
Anthony Harris
Alexandra Hebert
Craig Heckel
Harry Helmrich
Stanley Henderson
Shawn Henderson
Daniel Hendrickson
Matt Henry
Alan Hernandez
Julio Hernandez
Kimberly Hernandez
Blake Herold
Josue Herrera
July Herrera
Erin Hicks
Michael Hiers
Anthony Higdon
Timothy Hileman
Kevin Hodgens
George Hoffman
Matthew Holland
Andrew Holley
Michael Holt
James Hong
Sebastian Honigfort
Ryan Hopkins
Brad Hopson
Andrew Horner
Calvin Horst
Beth Howard
Richard Howe
Ryan Hoyt
Victor Huayamave
Erin Hughes
Anthony Hull
Jimmy Hutto
Roy Hwang
Daniel Hyatt
Alex Hyyti
Maria Irizarry
Adnan Ismail
Ronald Jackson
James Jacobs
Donald James
Jonathan Janney
Christina Jaquilmac
Russell Jarvis
Gilbert Jean Baptiste
Kalyani Jeyisanker
Josh Johansen

Cody Johnson
Mitchell Johnson
Richard Johnson
Jonathan Jolly
Christopher Jones
Lance Jones
Cary Jordan
Kristina Jorgensen
Druce Joslin
Mark Joson
Julie Kahn
Ryan Kahn
Joseph Kantor
John Kapala
Andrew Katz
Daniel Kellner
Jon Kelly
Justin Kemp
Sharmeela Khemlani
Alexis Kiever
Sean Killingsworth
John Kimberl
Jerame King
Newton King
Jeremy King
Stephanie Kinlen
Tamela Kinsey-Spencer
Jordan Kirk
Brian Kirley
Tyler Kite
Jennifer Klich
Kaitlyn Kliewer
Andrew Kline
Susan Knepper
Jamie Knez
Audrey Knickerbocker
Ermin Komsic
Stephen Kovach
Justin Kramer
Angela Kruth
Jason Kubus
David Kumanchik
Douglas Kusuke
Timothy Kwiatkowski
Paige Labarr
Erica Laberge
Abigail Lambert
Alexi Lambert
Matthew Landschoot
Benjamin Large
Brian Larson
Ato Lawrence
Emily Lawson
Roberto Ledesma
Gregory Lee
Jeffry Lee
Johanna Lee
Jordan Leep
Shannon Leicht
Kira Leon
Shayne Lester
Adam Levine
Marshall Lewis
Jevaan Lewis
Camille Liebnitzky
Jordan Liebold
Wyatt Ling
James Link
Garrett Littlejohn
Wei Ting Liu
Melissa Lomax
Victoria Lopez
Ariel Lopez Ferrer
John Lubatti
Alejandro Lugo
Kyle Lusk
Daniel Lynch
Scott Lynch

William Lyon
Stephen Maceachern
Alberto Machado
Jose Machado
Lauren Maclea
Arturo Madera
Angel Maestre
Alex Magliacane
Adrian Mahabir
Steven Maloney
Milton Malpartida
John Mancini
Ricardo Maristany
Robert Marshall
Shea Marshall
Andrew Martin
Leticia Martin
Fernando Martinez
Michael Martinez
Alejandro Martinez-Suarez
Leah Marz
Pierre Massena
Kyle Massie
Skyler Mastro
Andrew Maughn
Talya Mayer
Kyle Mays
Alexander Mcbride
Jonathan Mccarthy
Matthew Mccoy
Austin McDonald
Robert McDonald
Tyler McDougal
Ryan McGhee
Katrina McKay
Casey McKenzie
Hannah Mclean
Devin McMahon
Lucas Medwell
Aldo Mejias
Brent Melvin
Daniel Melvin
Alexander Menna
Dennis Metott
Jonathan Meyer-Senior
Joshua Michalik
Reka Miklos
Andrew Miller
Jonathon Miller
Thomas Miller
Megan Miller
James Milligan
Dustin Mills
Shane Misztal
Charles Mitchell
Christopher Miyares
David Moeller
Christopher Moemke
Juan Moncada
Rosario Montero
Austin Moore
Jonathan Moore
Dalita Mootosammy-Singh
Bryan Mora
Lizeth Mora
Carlos Morales
Hector Morataya
Carlos Moreno
Laura Morris
Christopher Moseley
Mark Moshier
Curtis Mosley
Alejandro Munilla
William Munshaw
Matthew Munz
Nicholas Murdock
Khant Myat
Bryan Nadeau

Larissa Nagata
Matthew Nance
Tanya Nash
William Nash
Jacquelyn Neal
Benjamin Neese
Richard Neet
Anthony Nelson
Michael Neves
Tristan Newman
Bonnie Ng
James Nguyen
Thuy-Uyen Nguyen
Elizabeth Nguyen
Kirsten Nielsen
James Nilson
Joel Nutt
Brock Odom
John O'Donnell
Michael Ojo
Joseph Olympio
Jeremy O'Neal
Brian O'Neill
Raul Ordonez JR
Reinaldo Orozco
Alejandro Orozco
Riel Osorio
Marco Osorio
Werner Ottenheimer
Erin Owens
Charles Owens
Michael Paige
Junior Pampin
Joseph Paquette
Garrett Parcels
Leon Paredes
Jeffrey Parker
Matthew Parrish
Jaren Patamasank
Oksana Pechkurova
Edgard Perez
Leonardo Perez Navarro
Michael Perry
Vischal Persaud
Michael Peter
Richard Pick
Alex Pickard
Brock Pickett
Melanie Pickett
Gary Pierce
Nick Pigott
Mark Pina
Alexis Pla
Matthew Poling
Anaysis Pombal
Javier Ponce
Victor Ponce
Michael Pontius
Elliot Popper
Brett Powers
Rachael Powlas
Corey Press
Mackenzie Prestwood
Nathaniel Price
Thomas Price
Malton Prifti
William Pryse
Chenxia Qiu
Ashley Quaid
Kalynina Queiroz
Giovanni Quiel
Charbel Raad
Juan Ramirez
Richard Ramoutar
July Randt
Lourdes Rapp
Joel Rapp
Michelle Rees

Matthew Reihl
Tyler Renfro
Elias Reyes
Monica Reyes
Keith Reynolds
Joseph Rezutko
Ryan Richardson
Andrew Rieke
Michael Riemer
Melnard Rio
Xavier Rios
Daniel Riquer
Troy Rivera
Jameson Rivers
Heather Roberts
Michael Roberts
Gregory Robertson
Peter Robinson
Alexander Rodriguez
Jose Rodriguez
Michael Rodriguez
Manuel Rodriguez
Tamishe Rodriguez
Alvilda Rolle
Daniel Romnosky
Alyssa Romola
Eric Rosenberg
Curtis Ross
James Ross
Matthew Ross
Stuart Royal
Robert Ruffin
Diane Ruiz
Justin Rumbach
Devin Ruster
Michael Ryan
Paul Saa
Hemberth Salazar
Mario Samson
Daniela Sanchez
Maxwell Sandler
Canon Sandora
Charles Santeler
Daniel Satizabal
Jarrett Saunders
Giacomo Savardi
Kyle Schau
Chelsea Scheid
Samuel Schllesinger
Daryl Schneider
James Schonk
Jennifer Schroyer
Kyle Scott
Stewart Scott
Mackenzie Searle
Adam Secunda
Jose Semprun
Abner Serrano
Torah Shah
Arjun Sharma
Jay Shartzter
Stephen Shell
Hui Shi
David Shine
John Shoupe
Brandon Shugart
Erik Siebert
Frank Silva
Scott Simmons
Aaron Simon
Charles Sistare
Lindsey Skourellos
Christopher Slater
Chad Sloman
Jamie Small
Cassandra Smith
Joshua Smith
Nicole Smith

<p>Tyson Smith Ira Smith Guillermo Soriano Jamie Sortevik Marcos Souza Jovica Spasovski Nicholas Spatola Brandon Spencer Maxwell Spencer Tyler Spencer Bradley Sprung Wendell Stainsby Dwayne Stanford Donald Stanley Daniel Staples Charles Starr Brent Steele Jonathan Stewart Ayala Jennifer Stickler Justin Stottlemeyer Dominic Strollo Johanna Strul</p>	<p>Michael Studard Wingert Suarez Wilfredo Suarez Mulkay Sara Sullivan Podchara Supupramai David Sykes Matthias Sylverain Omar Symister Eric Szews David Tam Janet Tamayo Peter Tan Andrew Taran Joshua Tatum Tyler Tedcatle Justin Terry Sung Thai Dornelle Thomas Steven Thomas Jarod Thomas Carl Thrushman Reshma Thummadi</p>	<p>Kelsie Timpe Rodolfo Tobon Gabriel Todaro Donnielle Toebe Nelson Tower Matthew Tracy Tuan Tran Ismael Trevino Jeremy Truesdell Alexandra Tweedle David Tyler Matthew Tylka Taylor Vail Romesch Valdes Tjerk Van Veen Andrea Vargas Paola Vargas Parra Arun Varghese William Vaughn Mario Vega Eric Vieira Laurence Vincent</p>	<p>Peter Vinje Thomas Virgin Christine Vrabic Laura Wainikainen Gabriela Wall Cori Wallace Janey Walls James Walton Christopher Watkins Sheryl Watkins Christopher Watson Joshua Weaver Brian Weber Michael Weinbaum Christopher Wells Stephen Welty Benjamin Wenzofsky Jeffrey Whitaker Ross White Kevin Whitehead Benjamin Whitmore Jarrod Whittaker</p>	<p>Christyn Wiederhold Michael Wilburn Amber Wilkerson Eric Wilkinson Bryant Williams Garrett Williams Courtney Willis Lonnie Willoughby Benjamin Witten Neil Wolfe Etienne Wolmarans Jessica Woodham Yaning Yang Alan Yopez Anthony Zappa Wilford Zephyr Richard Zion David Zuleta Victoria Zulueta</p>
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MAINTAINING YOUR INFORMATION ON LICENSING RECORDS



Did you know that whenever your contact information changes it is your responsibility to update your licensure record? FBPE wants to remind you 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.

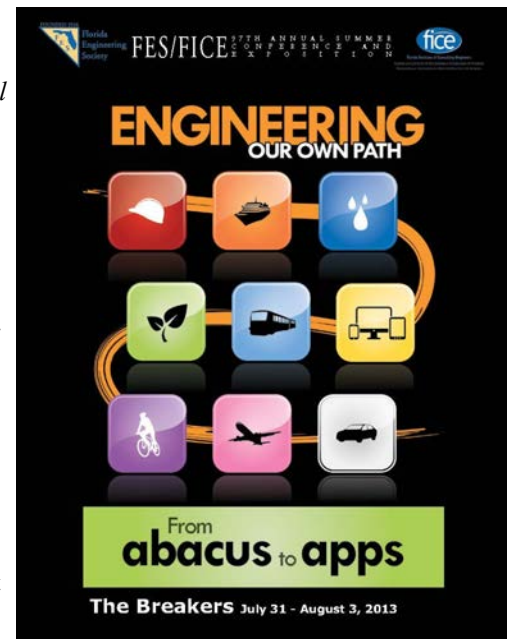
This information should be provided **within 30 days** of when the change occurs to ensure proper delivery of licensure correspondence and uninterrupted Board service. We also encourage licensees to provide the most current email address as we routinely provide special notices, information and the quarterly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

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.

FBPE will be attending the FES/FICE 97th Annual Summer Conference and Exposition, July 31 - August 2, 2013, in Palm Beach, Florida. Each year FES/FICE’s conference offers its members a number of educational sessions regarding industry related topics and exhibits, a Florida Laws and Rules seminar, member meetings and receptions and a guest Key Note Speaker.



This year’s theme is “*Engineering Our Own Path: From Abacus to Apps.*” Online registration for this event is closed but there is still space available. Go to FES’ website at www.fleng.org to download the registration form to register on-site and obtain the hotel information. The schedule and brochure for the conference is available on the *Home* page or you can [CLICK HERE](#).

If you have any questions regarding this year’s conference, contact Trevor Maddox, FES Senior Meeting Planner at (850) 224-7121.

The Florida Engineering Society (FES) has been the statewide society of Professional Engineers since 1916, from all disciplines that promotes the ethical and competent practice of engineering, advocates licensure, and enhances the image of its members. FES serves over 3,500 members.



For more information about FES and how to become a member visit their website at www.fleng.org.

Building Officials Association of Florida (BOAF)



61st Annual 2013 Educational Conference & Trade Expo

Representatives of FBPE made their annual appearance at this year's *2013 BOAF Educational Conference and Trade Expo*, held on May 19-23, 2013, in Daytona Beach, Florida at the Hilton Daytona Beach Resort. Over 250 people were in attendance at this year's event, including FBPE Executive Director, **Zana Raybon** and Investigator, **Wendy Anderson**.

The theme for this year's conference was "*Professionalism-The Next Step*" and focused on education and professional development. It was an eventful week planned with education classes, trade expo exhibitors, social events, networking opportunities and the installation of new officers.



Attendance at the conference allows participants to not only earn credits toward continuing education and the latest changes affecting building codes and enforcement but, also meet with vendors and companies on some of the latest building products and technologies. There were a number of companies and associations represented in the trade show besides FBPE including the American Fire Sprinkler Association, Department of Highway Safety & Motor Vehicles, Florida Fire Marshals & Inspector Association, Florida Flood Plain Managers and the International Code Council, just to name a few.

FBPE's participation in this event each year provides us the opportunity to speak candidly with the building officials from across the state that we do business with on a regular basis, make new official contacts and interact with many others within the construction and engineering industries. Typically, we are able to address many questions related to the latest engineering laws and rules, the complaint and investigatory process and the Board's latest activities. Equipped with a number of visual aids and instructive brochures, we consider this venue an excellent approach to increasing FBPE's visibility while supporting our commitment of ensuring the health and safety of the public through education, licensure, and regulation of the engineering practice in the State of Florida.



BOAF represents Building Officials, Inspectors and Plans Examiners and the building industry in the State of Florida. BOAF's mission is to provide for the safety, health and welfare of the citizens of the State of Florida through the education, development, maintenance and enforcement of building codes using unified strength and resources to attain a thriving business, community and association environment. BOAF is dedicated to the building code enforcement profession and their goal is to foster communication between all groups associated with the construction industry. You can find out more about BOAF on their website at www.boaf.net.

You can view more pictures from FBPE's attendance at the event by going to the Events and Conferences section under Your FBPE at www.fbpe.org.



Recent Engineer Discipline

In 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.

Winthrop Barnett, P.E.
PE 25576
Case No. 2011055854

Licensee was charged with one (1) count of engaging in negligence in the practice of engineering, 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(4). Licensee was engaged to inspect concrete deterioration of existing buildings and prepare a design for the repairs. Licensee signed, sealed and dated two engineering design documents and calculations. The documents were deficient. The deficiencies include, but are not limited to: (a) the corbel design assumed there was an existing beam spans longitudinally between the columns. No such beam exists on the original design drawings and there was no beam constructed; and (b) within the project document calculations, Licensee arbitrarily assumed a distribution of loads. No structural analysis utilizing the greater stiffness of the corbel beams relative to the slab was used to determine the actual load distribution.

Ruling: The Board approved a settlement stipulation that imposed a RESTRICTION from designing buildings (1) with a classification category of III or IV in Table 1604.5 of the Florida Building Code, (2) any threshold buildings as defined in Section 553.79, Florida Statutes, (3) any reinforced concrete structures, or (4) design of concrete restoration of any type of structure. Licensee will not accept any contract for these types of projects but will refer the work to another qualified engineer. This Restriction shall continue until Licensee completes, passes and submits proof of passing the NCEES 16 hour Structural Exam. At the end of Restriction, Licensee must petition for reinstatement of the license and shall appear at the Board Meeting at which the Petition shall be considered, fine of \$3,000.00, costs of \$1,913.25, Reprimand, Probation for two (2) years with terms. Terms include Advanced Engineering Professionalism & Ethics course, Study Guide, Project review at six (6) and eighteen (18) months.

Violation: Section 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(4)

Charles Culpepper, P.E.
PE 14203
Case No. 2012019685

Licensee was charged with one (1) count of being convicted or found guilty of, or entering a plea or nolo contendere to, regardless of adjudication, a crime in any jurisdiction which directly relates to the practice of engineering or the ability to practice engineering, 471.033(1)(a) and (d), Florida Statutes. On August 4, 2006, Licensee entered a plea of nolo contendere to Driver's License/Possession of Stolen/Fictitious, Grand Theft 3rd Degree, Identification/Personal/Fraudulent Use/Possession and False Statement of Financial Condition/Identity.

Ruling: The Board conducted an Informal Hearing. At the Informal Hearing, the Board imposed a fine of \$1,000, costs of \$195.10, Board approved course in Engineering Professionalism & Ethics course, and study guide. Final Order issued 3/20/13.

Violation: Section 471.033(1)(a) and (d), Florida Statutes

Jose G. Dominguez, P.E.
PE 49994
Case No. 2012002508

Licensee was charged with engaging in negligence in the practice of engineering, a violation of Section 471.033(1)(g), Florida Statutes. Licensee was the Structural Engineer of Record for the Stair Railings Project. Licensee signed, sealed and dated calculations for residential stair railings. Upon submitting the calculations for permitting, they were rejected. The Stair Railings Project documents are materially deficient in that the required embedment for the railing post anchor plate anchors is not set forth on the documents, the applied tension force on the railing post anchor plate anchors exceeds the allowable tensile force for the Tap Con anchors specified, the 1/2" x 2" solid railing post is overstressed, and the type, side and

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embedment of the anchors are not set forth in the permit drawings as required by Section 106.1.1 of the 2007 Florida Building Code.

Ruling: The Board approved a Settlement Stipulation imposing an administrative fine of \$1,000, costs of \$4,665, Reprimand, Appearance before the Board when the Stipulation was presented, two (2) years' probation with terms, terms include a Board-approved course in Engineering Professionalism and Ethics and project review at six (6) and eighteen (18) months, and the Study Guide. Final Order was issued on 6/25/13.

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

Gregory Gainer, P.E.

PE 70885

Case No. 2012027714

Licensee was charged with one (1) count of misconduct in the practice of engineering, 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(6)(b). Licensee was charged with engaging in misconduct due to the following: Licensee was engaged to provide engineering services relating to a structure. Licensee was to prepare documents for issuance of an "After the Fact" building permit. Licensee determined that the project was not code compliant and would require extensive remediation to meet applicable building code requirements and produced signed sealed and dated engineering design documents. In addition, Licensee also submitted signed, sealed and dated "Attachments" which constituted an engineering opinion and certification that the project was code compliant when it was not.

Ruling: The Board approved a settlement stipulation that imposed costs of \$2,617.50, Reprimand, Write an article for publication about his experiences related to this matter to be submitted to the Board, Advanced Engineering Professionalism & Ethics course, and study guide. Final Order issued 4/23/13.

Violation: Section 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(6)(b)

Fernando Gomez-Pina, P.E.

PE 14710

Case No. 2012000326

The Administrative Complaint alleged that the Licensee was originally charged in FEMC Case No. 2007038418. Licensee entered into a Settlement Stipulation that was made part of the Final Order. Part of that stipulation required that the Licensee successfully complete a Board-approved course in Intermediate Engineering Professionalism and Ethics within one year of the date of the Final Order. Licensee failed to take the course.

Ruling: A Final Order was issued on August 16, 2012, and the Settlement Stipulation approved by the Board imposing the following: Suspension (until licensee complies with the terms of the Final Order in FEMC Case No. 2007038418); Costs of \$736.50; Reprimand; and Appearance before the Board. NOTE: Licensee provided proof at the hearing that he completed the course-Suspension has been lifted.

Violation: Section 471.033(1)(k), Florida Statutes

Jacqueline P. James, P.E.

PE 66579

Case No. 2011048483

Licensee was charged with one (1) count of engaging in negligence in the practice of engineering, a violation of Section 471.033(1)(g), Florida Statutes, one (1) count of failing to comply with the requirements of Section 471.023, Florida Statutes. Licensee prepared structural drawings and initialed calculations and submitted them to the Building Department. The Building Department rejected the drawings and calculations twice. The drawings were issued by Licensee in the name of an Architectural Engineering firm. The Architectural Engineering firm does not hold a Certificate of Authorization from the Board. The drawings and calculations are materially deficient in that the required reinforcing of pile caps was not specified, necessary information relative to the support of the exterior stairs was not provided, the area of flexural steel specified for beams designated is significantly less than the minimum required, etc.

Ruling: The Board approved a Settlement Stipulation imposing an Administrative Fine of \$1,000, Costs of \$2,390, Appearance before the Board with the Stipulation was presented, two (2) years' probation with terms, terms include a Board-approved course in Engineering Professionalism and Ethics, Project Review at six (6) and eighteen (18) months, and the Study Guide. Final Order was issued on 6/25/13.

Violation: Section 471.033(1)(g) and Section 471.023, Florida Statutes

Ron Livingstone (Unlicensed)

Case No. 2012017087

Licensee was charged with one (1) count of unlawful practice of engineering, a violation of Sections 455.228(1), 471.031(1)(a), and 471.038(5), Florida Statutes. Mr. Livingstone prepared and signed a letter entitled "Comments on Engineers Reports, Remediation Efforts and Restoration Requirements" which was determined to be an engineering opinion wherein, he evaluated and made recommendations for the testing of and remediation for sinkhole activity on a property for which the "neutral evaluation" was being performed by an engineer. This opinion letter prepared and signed by Mr. Livingstone represents the unlawful practice of engineering.

Ruling: The Board issued an Amended Final Order imposing an Administrative Fine of \$5,000 and Costs of \$1,299.75. Amended Final Order was issued on 7/10/13.

Violation: Sections 455.228(1), 471.031(1)(a), and 471.038(5), Florida Statutes

Robert L. Lodes, P.E.

PE 29336

Case No. 2012032084

Licensee was charged with one (1) count of misconduct in the practice of engineering, 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(6)(b). Licensee acted as Engineer of Record for the Fire Protection System for a project. The plans and specifications

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fail to contain the information required under the Responsibility Rules (Rule 61G15-32.001 and 32.002(1)(5)). Licensee's Fire Protection System plans were deficient. The deficiencies include, but are not limited to (a) The plans did not show a system riser diagram showing all initiation and notification components, and cabling requirements; (b) The strobe intensity and speaker output ratings for all notification devices were not shown on the plans; and (c) The class and style of circuits as listed in the NFPA 72 were not provided on the plans.

Ruling: The Board approved a settlement stipulation in which Licensee VOLUNTARILY RELINQUISHED his Professional Engineer License and agreed to never reapply for licensure as a Professional Engineer in the State of Florida. Final Order issued 4/23/13.

Violation: Section 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(6)(b)

Randall L. Mosby, P.E.

PE 22326

Case No. 2011028047

Licensee was charged with failing to report in writing to the board within 30 days after licensee was convicted or found guilty of, or entered a plea of nolo contendere or guilty to, regardless of adjudication, a crime in any jurisdiction, a violation of Section 455.227(1)(t), Florida Statutes. Licensee was found guilty of and pled nolo contendere to several crimes and failed to notify the Board of said convictions.

Ruling: The Board approved a Settlement Stipulation SUSPENDING Licensee indefinitely until such time as he appears before the Board and demonstrates that he can practice with reasonable skill and safety and a Reprimand. Amended Final Order issued 7/2/13.

Violation: Section 455.227(1)(t), Florida Statutes

Emmanuel Nwadike

Previous PE 33208 (Currently Null & Void)

Case No. 2012004836

Mr. Nwadike was charged with one (1) count of being adjudicated guilty of a crime which directly relates to the practice of engineering, a violation of Sections 455.2247(1)(c) and 471.033(1)(d), Florida Statutes. Mr. Nwadike entered a plea of guilty to felony charges of: Compensation/Reward for Official Behavior/Unlawful -2nd degree Felony - Fabricating Physical Evidence - 3rd degree Felony - Money Laundering/Unlawful Proceeds greater than 100K.

Ruling: The Board issued a Final Order imposing a \$5,000 Fine, Costs of \$243, Reprimand, SUSPENSION for three (3) years from the date of the Final Order, a Board-Approved Course in Professionalism and Ethics, and the Board's Study Guide. Final Order issued 6/27/13.

Violation: Sections 455.2247(1)(c) and 471.033(1)(d), Florida Statutes

James Whittum, P.E.

PE 27689

Case No. 2012004881

Licensee was charged with one (1) count of negligence in the practice of engineering, 471.033(1)(g), Florida Statutes, and one (1) count of violating the express terms of a Final Order, 471.003(1)(k), Florida Statutes. On August 17, 2011, the Board entered a Final Order which Restricted Licensee from issuing certifications or engineering reports on any construction projects that would require on-site inspection in order for the certification/report to be issued. This Restriction precluded Licensee from issuing such certification/reports if the on-site inspection(s) is performed by Respondent or if performed by others acting under Respondent's supervision unless such subordinates are also Professional Engineers or Engineer Interns. In October 2011 Licensee was hired to perform an after the fact inspection on vinyl siding. On November 9, 2011, Licensee issued a sealed, signed and dated inspection report which stated that the vinyl siding was installed per the manufacturer's instructions and in conformance with the 2007 Residential Building Code. It was determined that, in fact, the vinyl siding did not comply with the manufacturer's installation instructions or the 2007 Florida Residential Code.

Ruling: The Board approved a settlement stipulation that imposed a fine of \$3,000, Costs of \$607.00, Reprimand, Probation with terms. Terms include: Advanced Engineering Professionalism & Ethics course, study guide, project review at six (6) and eighteen (18) months. Final Order issued 4/23/13.

Violation: Sections 471.033(1)(g), Florida Statutes and 471.003(1)(k), Florida Statutes

You can access the final orders for these cases 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. Information on public cases in which an engineer has been disciplined can be obtained by sending an email request to 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, 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.*

FBPE Project Site Visit

TALLAHASSEE'S CASCADES PARK

On occasion FBPE will get an opportunity to visit current engineering and construction projects within the State of Florida and most recently, Investigator **Wendy Anderson** and Public Information Officer **Shannon McCoy** were able to visit the renovation and redevelopment of what will be Tallahassee's new Cascades Park.

The park listed as a Nationally Registered Historic Place was once home to a beautiful waterfall, discovered in 1823 when two delegates one from St. Augustine and one from Pensacola, were looking for a suitable location for Florida's state capitol. The location of the park was also once the location of Smokey Hollow, an African-American community that began in the 1890's until it disbanded in the mid 1960s due to urban renewal throughout the city. Centennial Field, built in 1924 for Tallahassee's 100th Anniversary, could also be found there and for fifty years was used for minor league baseball games, football games and high school graduation ceremonies. Florida State University's first three football seasons from 1947 and 1949 were even played there!

When contamination was found in 1988, much of the area was closed off to public access until a major cleanup effort began in 2005. Four years later in 2009 after being deemed contaminant free, work began redeveloping the property for what will soon be Cascades Park.

The project that began in 2009 is being spearheaded by Blueprint 2000, a city-county agency that handles infrastructure improvements. The park will be the centerpiece of downtown Tallahassee extending from north of Pensacola Street to southwest of Monroe Street and will consist of 24-acres serving a dual-purpose for the area.

First, the park is designed to flood during major storm events which will provide much-needed flood relief upstream and downstream from the park. The stormwater component is funded through the penny sales tax that was approved by voters in 2000, while many of the park amenities currently under construction have been funded through grants and donations totaling approximately \$6.1 million. Second, the park will serve as a premiere recreational and entertainment green space for the Tallahassee community and visitors.

The park which is scheduled for completion in the Fall of 2013, will include 2.3 miles of biking and walking trails, an outdoor amphitheater with beautiful landscaping and ponds. An interactive fountain choreographed to colored lights will be a focal point for the park, as well as, a fence featuring interpretive historical panels that outline Tallahassee's past. Numerous amenities will commemorate specific local places and events to include the former Cascades waterfall which will be represented by an ultra-modern cylindrical fountain. The Prime Meridian will be showcased in a granite map of Florida surrounded by the 160-ft diameter amphitheater stage with seating capacity for up to 4,000. The city's Korean War memorial and tribute to the Smokey Hollow community will also be featured.

You can find out more information on the new Cascades Park development by visiting, www.cascadepark.org. To view detailed information, park feature renderings and to learn more about Blueprint 2000 and their current initiatives, go to their website at www.blueprint2000.org.

Photos from this site visit can be viewed by going to our website at www.fbpe.org and selecting *Investigator Site Visits* under the *Your FBPE* section. For a visual peek into Florida and Tallahassee's past history, go to Florida's Division of Information and Library Services' *Florida Memory* page at www.floridamemory.com.



In a continued effort to support our state's engineering colleges and universities, FBPE maintains its commitment to participate and support related activities and accomplishments in Florida's schools. As Fall approaches FBPE will be attending a number of Engineering Days and Expos in multiple schools across the state, as well as, working with educators on the upcoming transition of FE exam to computer-based testing (CBT). Whereas it is difficult to highlight every school's activities and successes we have reported here a few noteworthy events over the last couple of months. FBPE encourages educators, students, and alumni to contact Shannon McCoy at smccoy@fbpe.org at the Board office if you wish to have an engineering related article considered for publication, would like to highlight or promote an upcoming event, or schedule a meeting regarding the FE CBT implementation. FBPE's intent is to continue fostering these relationships and provide any assistance regarding engineer licensure. You can view many of our previously featured articles in past *Connection* editions by going to our website at www.fbpe.org and selecting *Publications* under our *Meetings and Information* section. You can also view our past participation in collegiate related activities on our *Your FBPE* section of the website.

ERAU Students' Ingenuity Attacks Algae at Middle School

*Article Reprinted with Permission from the Daytona Beach News Journal
 Authored by Deborah Circelli, DBNJ Staff Writer*

Two civil engineering seniors from Embry-Riddle Aeronautical University have designed and built a solar-powered waterfall pump aeration system to help reduce algae in Hinson Middle School's retention pond.

Angela Durston-Ryan of Australia and Jonathan Brasch of Cocoa Beach, who graduated in May 2013, put in the system as part of their senior design project and also in an effort to attract young female students to careers in science. The school's Girls Get It science club will help to maintain the pump and will conduct various science experiments such as looking at oxygen levels in the pond and the amount of nutrients.



The Embry-Riddle students used knowledge gained from their civil engineering classes on land surveying, environmental engineering, structural analysis, hydraulics, materials, construction management, soils and foundations.

The pump and solar panels were donated by a local company, Solar-Fit, and a fence around the solar panels was contributed by Federal Rent-A-Fence.

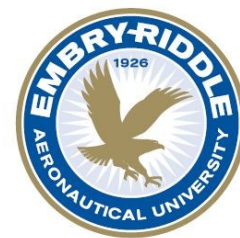
Durston-Ryan, 22, said middle school students will be able to compare different oxygen levels in the pond by taking samples near the waterfall and the bottom of the pond.

"When temperatures are hot and there is more chemical growth and an increase in algae," she said, "it's not visually appealing."

"When you have an aeration system in place, it will reduce algae and it's a really good project because it's completely off the grid and it's self-sustaining and not harmful to the environment," Durston-Ryan said.

Civil Engineering at Embry-Riddle Aeronautical University

*Submitted by John M. Weavil, MS, PE
ERAU Civil Engineering Department Chair*



Embry-Riddle Aeronautical University's Civil Engineering program is located in Daytona Beach, Florida. In June of 2012, Professor John M. Weavil, P.E. was named Department Chair. The Civil Engineering Bachelor degree offered by Embry-Riddle focuses on transportation, geotechnical, structures and environmental engineering both in and outside the aviation industry challenging undergraduate students to solve real-world problems.

UNDERGRADUATE STUDENT PARTICIPATION IN RESEARCH

Remote Airfield Lighting System

Dr. Christopher Grant PE, Associate Dean of the College of Engineering and Professor of Civil Engineering conducted research on a Remote Airfield Lighting System (RALS), with the help of civil engineering students who help set up the equipment, record and analyze data and student pilots who tested the effectiveness of the system. The RALS system is designed to provide low power, low cost lighting and navigational aids for unpowered remote airfields.

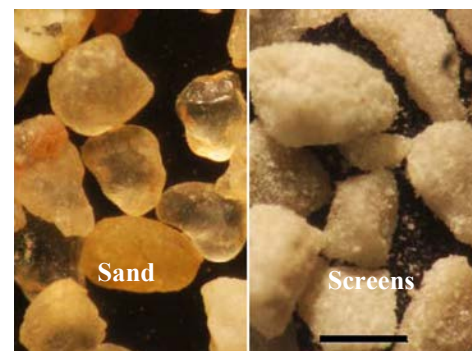


ERAU teamed with the University of Alaska-Anchorage, University of North Dakota, and the Lighting Research Center (LRC) at Rensselaer Polytechnic University to investigate the optimum airfield lighting system for support of current and future anticipated aviation navigation and ascertain the shortcomings and advantages of current portable and permanent lighting systems and their power needs. The life-cycle costs (operational, maintenance, repair, and replacement), constructability, and regional availability of materials used were also evaluated.

Crushed Rock Screenings as Concrete Aggregate

Dr. Ashok Gurjar PE, Professor of Civil Engineering partnered with the Florida Department of Transportation to study crushed rock by-products called screenings to determine whether they are suitable as a silica sand replacements in Portland Cement Concrete. Screening, much smaller than sand and a material often considered waste, presents storage and disposal problems. Quality sand for concrete is becoming harder to obtain resulting in an increasing cost of concrete construction.

Four civil engineering students worked with Dr. Gurjar designing concrete mixtures, mixing and conducting various tests on mortar and concrete including flow, slump, strength, durability, and shrinkage. The students attained their aggregate and concrete testing level I and level II certifications. The study indicated the screenings can be an acceptable substitute for up to 50% sand in Portland Cement Concrete.



Portable Water Purification System

Embry-Riddle Seniors must complete a team based capstone design that both provides a challenge and possesses real-world applications. Dr. Mark Fugler, PE, Professor of Civil Engineering has challenged students with real-world problems such as creating a portable water purification system for remote villages that operates on photovoltaic and wind power. This civil

(Continued on page 30)

engineering senior design project was scaled up and perfected with the help of the mechanical engineering students and employed in Haiti for the past two summers with the intent to return again.



Student Involvement with STEM

Embry-Riddle annually hosts the *Women in Aviation* event during which middle school girls participate in various activities involving science, technology, engineering and math. The Civil Engineering students prepared a marshmallow tower challenge where the girls were tasked with building the tallest tower using uncooked spaghetti noodles as structural members and small marshmallows as connectors. The tower was required to support a regular size marshmallow at the very top.



Author & Acknowledgements

This article was written and submitted by John M. Weavil, MS, PE. Professor Weavil has been at Embry-Riddle since 1983 and is the current Department Chair for ERAU's Civil Engineering Department. He authored the proposal to begin the Civil Engineering Program in 1994 and has taught in both the Civil Engineering Program and the Aerospace Engineering Program. During his teaching career he has taught 42 different college courses developing 28. His area of specialty is Engineering Machinery.



Embry-Riddle Aeronautical University (ERAU), the world's largest, fully accredited university specializing in aviation and aerospace, is a nonprofit, independent institution offering more than 40 baccalaureate, master's and Ph.D. degree programs in its colleges of Arts and Sciences, Aviation, Business and Engineering.

All engineering degree programs on the Daytona Beach campus are accredited by ABET (the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology). ABET, Inc. (formerly the Accreditation Board for Engineering and Technology) is the recognized accrediting agency for college and university programs in applied science, computing, engineering and technology.

The university is a major research center, seeking solutions to real-world problems in partnership with the aerospace industry, other

universities and government agencies. For more information on Florida's Embry-Riddle College of Engineering visit their website at <http://daytonabeach.erau.edu/coe/index.html>. You can also follow ERAU on Twitter at [@EmbryRiddle](https://twitter.com/EmbryRiddle) and Facebook at facebook.com/EmbryRiddleUniversity. Expert videos are located at YouTube.com/EmbryRiddleUniv.

FICE/ACEC of Florida Scholarship Winner Takes National Scholarship

The Florida Institute of Consulting Engineers/American Council of Engineering Companies of Florida (FICE/ACEC of Florida) is pleased to announce that **Michelle Gauthreaux**, attending the University of Florida (UF), was recently awarded a \$5,000 scholarship. After being selected for the FICE/ACEC of Florida scholarship, Gauthreaux's scholarship application was forwarded to national American Council of Engineering Companies (ACEC) for consideration.



The Committee of Fellows of the American Council of Engineering Companies then selected her to receive the 2013 Business Insurance Trust Scholarship. This scholarship is worth \$5,000 and travel expenses to ACEC's Fall Conference in Scottsdale, Arizona.

Since 2004, FICE/ACEC of Florida scholarships honor Florida college students expressing interest and commitment to the business and management of the engineering profession. To qualify, a student must be a U.S. citizen pursuing a bachelor's or master's degree in an Accreditation Board for an Engineering and Technology (ABET)-approved engineering program or in an accredited land-surveying program. Recipients of the awards are evaluated in work experience, extracurricular and community activity, references, grade point average, and a written essay.

"I am always inspired by the talent and determination displayed by so many young people studying engineering. Based on her academic accomplishments, community involvement, and engineering experience gained through internships, Michelle is a great choice as winner of the FICE/ACEC of Florida scholarship," said Mark Mechling, PE, 2013 FICE President.

Michelle is completing her third year as an Industrial and Systems Engineering undergraduate student at the University of Florida. She serves as an ISE Ambassador for the UF Industrial and Systems Engineering Department. In addition, she is involved with the Society of Women Engineers and the Institute of Industrial Engineers. To supplement her education she has worked as a manufacturing intern with Abbott Laboratories, is currently working as an engineering intern with Management Engineering Consulting Services at UF & Shands, and has accepted a position as an intern with GE Healthcare during the summer of 2013.

Michelle is also a certified Lean Six Sigma Green Belt from the Institute of Industrial Engineers, Lean Six Sigma Yellow Belt from Abbott Laboratories, and UF Anderson Scholar and Snelling Scholarship recipient. She hopes to one day apply her engineering degree in the healthcare industry to improve patient quality of care and process efficiency.

Michelle will be recognized at the FES Leadership Conference during the FICE Board meeting at the Hammock Beach Resort in Palm Coast, Florida in June. Later this Fall, she will be recognized at the Fellows Reception and the Awards Luncheon at the ACEC Fall Conference in Arizona.

How to Stand Out for the Right Reasons

*Written by: Maria Quintero, Electrical Engineering Graduate from Florida International University
Reprinted with Permission from the Huffington Post*



Being one of the few women studying engineering at [Florida International University](#) proved to be an experience that further fueled my drive and passion for the field. It also quickly made me realize that I had to make a name for my capabilities before people made conclusions about me because of my gender. You see, I never wanted to be Maria, the Hispanic girl in engineering 101, but more like Maria, the project leader that helped her group ace the class. It is easy to spot the female student in a room full of males. But sometimes, it's not so easy to see the leadership, commitment and fierceness that female STEM students embody. My time at this diverse university taught me many lessons that I will take with me. Those lessons will transfer with me to the workplace when I officially begin my professional life in just a few days. These are the big takeaways for me.

Turn every challenge into an opportunity! Participating when I can, earning top grades, and maximizing my classroom experience are what I care about. As part of a minority group in engineering, it is crucial for women not to feel intimidated; on the contrary, we should embrace this opportunity to stand out, be confident, create successful projects, and promote thought leadership among us.

Surround yourself with the best! They say that you are as good as the company you keep. During my college years, I worked with some of the most talented, supportive students in my classes. Working with them also kept me on my toes because we all wanted to be the best. I look forward to working in a competitive environment where my strengths will be put to the test, and where I'll make friends with colleagues who will also count on me to keep them ahead of the game.

Make it more than a "girl" thing! I resent comments like, "She has a better relationship with that professor because she's a girl." It's not because I'm a girl, it's actually because I don't want to be seen as "she's just a girl." I am motivated and inspired to show that my success is not related to my gender but rather my intellect. At the end of the day, women can do anything men can...sometimes, even better. In turn, I make the most out of every situation and make every chance count to move forward and do better.

I'm doing my part to dispel myths about women in STEM fields. I guess it all began at home with my mom who is also a STEM woman and set the example for me. She set the stage for me to look forward to studying math and science. I hope to do the same for other women; whether as a student at FIU or as a professional. I may be one person, but as a group we, STEM women/girls, are a force to be reckoned with.

Engineering and Computing
FLORIDA INTERNATIONAL UNIVERSITY

Florida International University's College of Engineering and Computing is South Florida's leading engineering education resource. The College offers a complete range of fully accredited engineering baccalaureate, master's and doctoral

degree programs in biomedical, civil and environmental, electrical and computer, and mechanical and materials engineering; construction management; and computing and information sciences. With close to \$20M of external funding, research is an integral part of the College's mission and its success. The College is committed to diversity, and is the largest producer of Hispanic engineers, and one of the top producers of African-American engineers and females with doctoral degrees in engineering.

The College resides at the Engineering Center (EC), a 250,000-sqft. building on 38 acres situated less than two miles from the University Park Campus, and at the Computing and Information Sciences (ECS) building located at the University Park Campus. The two facilities house world class research centers, teaching laboratories, faculty offices, study areas, computing facilities, and research laboratories. For more information on FIU CEC go to their website at www.cec.fiu.edu/.

For more information about the Huffington Post and their support of girls in STEM, go to their website at www.huffingtonpost.com/news/girls-in-stem.



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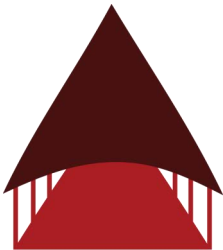
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