



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Connection

Volume 3 - Issue 2

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

RECENT CHANGES TO RULE 61G15

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

A number of rule updates approved by the Board and have been recently implemented or are due to go into effect within the next few months. Rules updated and implemented effective July 25, 2014, include: **61G15-24.001 - Schedule of Fees** and **61G15-27.001 - Procedures for a Successor Professional Engineer Adopting As His Own the Work of Another Engineer**. Rule **61G15-32.004 - Design of Water Based Fire Protection Systems**, has been approved and will go into effect pending official update from the General Counsel's office.



61G15-24.001 lists the schedule of fees that FBPE charges for the various services it provides. The rule change that was proposed by the Board's Executive Director, **Zana Raybon**, and passed by the Board eliminates the fee charged for licensure verification. Historically, when a licensee has contacted the Board to request verification of licensure, the board was obligated to collect a \$25 fee. As was pointed out by Ms. Raybon, with all licensure information now being electronically stored, FBPE can provide this service as a courtesy to its licensees without the need to collect the fee.

61G15-27.001 establishes the procedures for a successor professional engineer when adopting as his own the work of another engineer. The rule change that was proposed by the Rules Committee and passed by the Board allows the successor engineer to contact the original engineer by methods other than certified letter. Recognizing that licensees can create, sign, seal and transmit deliverables, the Board chose to expand methods of contact to include, registered carriers (i.e. FedEx, UPS, DHS, etc.), fax and even a verifiable email address. The expansion of **61G15-27.001(2)** results in the following:

61G15-27.001(2) Prior to sealing and signing work a successor professional engineer shall be required to notify the original professional engineer, his successors, or assigns by certified letter or other verifiable correspondence to the last known address or email address of the original professional engineer of the successor's intention to use or reuse the original professional engineer's work. The successor professional engineer will take full responsibility for the drawing as though they were the successor professional engineer's original product.

61G15-32.004 is found within the Responsibility Rules portion of 61G15 and serves to establish minimum requirements of engineers when designing water based fire protection systems. Based on input from Florida's licensees, the Rules Committee considered, proposed and the Board approved expanding the minimum requirements. The minimum requirements have been expanded to include the following:

- (k) A determination of whether a fire pump(s) is required and if so, the specific volumetric flow and pressure rating of the pump(s).
- (l) A verification of whether a firewater storage tank is required on site and if so, a determination of the size and capacity required.
- (m) Owners Certificate. In storage occupancies, the Owners Information Certificate is required from the property.

View the most current version of the laws and rules, by selecting *Statutes and Rules* under the *Legal* section of our website or go to www.fbpe.org/legal/statutes-and-rules.

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



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FROM THE EXECUTIVE DIRECTOR

State Licensing Boards & Their Authority to Regulate Professions

NCEES recently informed all the state boards that they have filed an Amicus Brief (friend-of-the-court brief) with the U.S. Supreme Court regarding a case between the North Carolina Board of Dental Examiners and the Federal Trade Commission (FTC). The U.S. Supreme Court has agreed to hear oral arguments on October 14, 2014 on an appeal from the U.S. Court of Appeals for the Fourth Circuit involving the regulatory authority of the Federal Trade Commission over licensing decisions made by a state board of dental examiners.

AT ISSUE: *Can state licensing boards staffed with business owners and professionals regulate their own professions without oversight from government employees?*

The Supreme Court's decision could have important consequences in the antitrust arena for state boards whose membership is comprised primarily of practitioners in the applicable profession, as is true for our member board.

This particular case started with a dispute over teeth-whitening that erupted between the Federal Trade Commission and the North Carolina Board of Dental Examiners. The dental board, which is comprised of six licensed dentists, a hygienist and one consumer member, is accused of improperly thwarting competition while the state wasn't paying attention. Over the past decade, the board issued nearly 50 cease-and-desist letters to beauty parlors, spas and other small businesses that offer teeth-whitening services, warning that only licensed dentists can legally provide those treatments. In addition, threatening notices sent to mall owners and property managers who lease space to teeth-whitening services, are "*unfair methods of competition*," the FTC said in a June 2010 complaint. Non-dentist teeth-whitening services charge between \$100 and \$200, while licensed dentists usually charge \$300 to \$700, the complaint stated.

Dentists claim that non-dentists use inferior products to provide the whitening services and actually put the public at risk. The North Carolina dental board argues it is protecting the public as about 250 to 300 complaints are filed annually regarding local teeth-whitening services, mostly from consumers. One of those complainants whose teeth were whitened at a tanning salon claimed he later "*developed extremely irritated gums, ulcers, and possible permanent nerve damage*," according to the board's filings in the lawsuit.

Non-dentists have claimed that the state board is exercising its authority to sanction trade practices in violation of antitrust laws. An administrative law judge ruled in July 2011 that the dental board had violated federal antitrust law following a

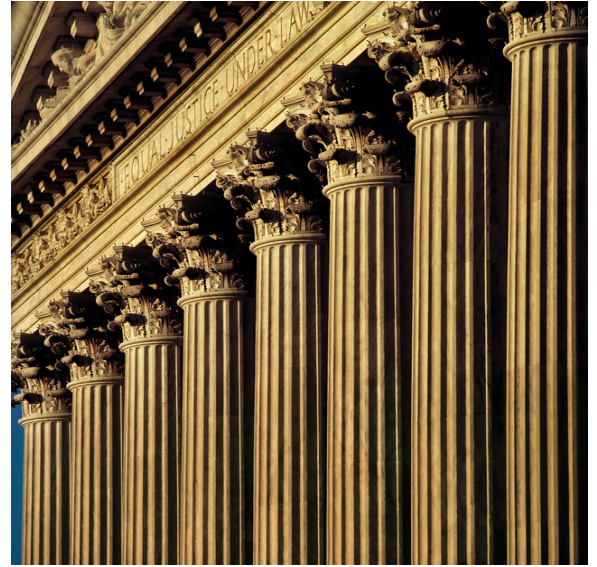
complaint to the FTC by an unlicensed service provider that they were being harassed by the state. An appeals court last year denied the board's motion to review the case, so it appealed to the Supreme Court.

With nearly 23% of occupations being licensed at the state level, up from 20% in 2000, there are those who believe some boards have vested financial interests, tend to be indebted to their peers, and might even prevent healthy competition. However, not all state licensing laws are inherently suspicious. In Florida, we have plenty of government oversight and the means for consumers to lodge a complaint if a licensing board is acting improperly.

The reason this case is important for other licensing boards is that a ruling in favor of the FTC could hinder the authority that boards can exercise. While there is not a direct correlation between dentists and engineers, member boards must have the authority to regulate their given profession, including examination, licensure, discipline and enforcement, if they are to meet the goal of protecting the health and safety of the public. With that in mind, we will keep a close watch on the result of this case as it goes before the Supreme Court later this month.

If you have any questions or concerns regarding this please feel free to send an email to board@fbpe.org.

Zana Raybon
FBPE Executive Director
FEMC President



CHAIRMAN'S CORNER

FBPE Rules Committee & Continuing Education

There are at least a half dozen permanent FBPE committees and another half dozen ad hoc committees. Presently, two ad hoc committees, the Traffic Engineering Committee and the Authorized Representative Committee, are very active. However, there are two standing committees which are continually hard at work. These are the Probable Cause Panel (PCP) Committee and the Rules Committee.

Warren G. Hahn, PE
FBPE Chair



The Probable Cause Panel deals, in general, with discipline of our engineering community. The Rules Committee, consisting of committee Chairman **John Burke, PE** members **William Bracken, PE, SI, CFM**, **Anthony Fiorillo, PE, SI, CGC, LEED AP**, and **Kenneth Todd, PE** continually review rules that are required with statute changes and when rules are required to be changed for the betterment for our engineering profession.

As most of you are aware, the Legislature, with the Governor's approval, has passed CS/HB713, which changed certain sections of **F.S. 471, Engineering**, as follows:

1. Revising qualifications for appointment of members of the FBPE.
2. Permitting a professional or technical engineering society to provide a list of qualified nominees.
3. Providing for staggered terms and lengths of terms for FBPE members.
4. Revising requirements for engineering license applicants who fail fundamentals of engineering (FE) examinations.
5. Authorizing an applicant who is delayed in taking the examination due to military service to have additional attempts to take the examination.
6. Revising requirements for obtaining licensure by endorsement.
7. Revising requirements for continuing education hours for engineer license renewal.

In particular, item number seven, *Continuing Education for Engineers*, will consume many hours of discussion with the Rules Committee.

Public comment and participation is encouraged with the Rules Committee as they implement the continuing education rules in response to the statute change. Rules Committee meetings are noticed and open to the public for participation. Also, when the full Board debates and votes upon Rules Committee recommendations, public comments are welcome. Public comment is also considered when the rule changes are published and before they take effect.

The revised statute for continuing education indicates that every licensee must complete nine (9) continuing education hours for each year of license renewal (18 continuing education hours for the two (2) year license renewal cycle.)

For each renewal cycle one hour must relate to rules, one hour must relate to ethics and four hours must relate to a licensee's area of practice. The remaining 12 hours may relate to any topic pertinent to the practice of engineering.

Of importance, continuing education hours may be earned by presenting or attending seminars, in-house or non-classroom courses, workshops, or professional or technical presentations made at meetings, webinars, conventions or conferences, including those presented by vendors with specific knowledge related to the licensee's area of practice.

How then will the rules be written to encompass the continuing education providers? It isn't anticipated that the Board will certify the continuing education providers as it now does. Yet, some sort of certification is required in that each engineer will be required to maintain a record of their continuing education, so that documentation can be verified, if needed. Remember that during each

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renewal cycle approximately 10% of the engineers renewing their license will be required, on a random selection basis, to provide

documentation to the Board that they have, in fact, completed the required continuing education.

As much as we may believe that an engineer's "word" is his bond, and that this is true for the majority of professional engineers, we all know there are those, in any profession, who just "flat-out" cheat. Hence, the need to monitor the authenticity of each individual's continuing education.

This means that each continuing education provider will be required to provide some sort of certification to each person completing their study course, seminar and/or continuing education presentation. This is a normal procedure when completing seminars and courses provided by professional societies and professional CEU (PDH) companies. However, it is not necessarily furnished by the "lunch-and-learn" providers, or necessarily by the engineering firms that provide in-house seminars or courses. Some sort of certification or documentation will be required to the engineer from a provider, verifying an engineer's completion of a continuing education course, session or seminar.

Should we accept a certificate from "Billy-Bob's Roto-Rooter Company" certifying that engineer "Donny Drainage, PE" completed a one hour course in "septic tank cleaning?" In all likelihood, the answer is **NO**. All professional engineers are aware of and probably value the engineering education information that can be, and is, provided by various product manufacturers. There is no question that the half hour to two hours of continuing education that they provide during a "lunch-and-learn" or similar session is 100% totally acceptable.

However, will the 10% random verification of documentation or certification ferret out the "certificates" from "Billy Bob's Roto-Rooter Company" for "septic tank cleaning," or similar dubious certification?

How can the FBPE staff ascertain the acceptability of a given continuing education certificate while wading through an average of five (5) certificates for each of 3,000 engineers (15,000 certificates) every two years? Verifying these over a two year period, on a systematic basis would be 625 certificates per month, or 30 certificates per day which would be six (6) engineer's continuing education verified daily over that two year period. **Is this doable?** This is what the Rules Committee will wrestle with during their next several committee sessions.

Also, as a reminder, the statutory changes numbered one through six above went into effect on July 1, 2014. However, item number seven dealing with continuing education will not go into



effect until **March 1, 2015** in order to allow engineers to renew their licenses smoothly during the upcoming renewal period, which opens on **November 3, 2014** and ends on **February 28, 2015**.

For those interested in participating in the Rules Committee meetings that are available to the public or providing comments/feedback prior to the meetings can send an email to board@fbpe.org.

You can view the most current laws and rules as it relates to the practice of engineering by going to the *Legal* section of our website and selecting "*Statutes and Rules*" or by following this link, www.fbpe.org/legal/statutes-and-rules.

FBPE Vice-Chair, **William C. Bracken, PE, SI, CFM** has submitted a related article titled, "*FBPE's Board Committees*" on page 11 of this issue of the newsletter. In his article you can read more information about the other groups mentioned in this article of the *Chairman's Corner*, their responsibilities and how to find out about meetings and participation.

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

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

The FEMC Board's Latest Chair Appointments & Newest Member



On June 11, 2014, at the Florida Engineers Management Corporation (FEMC) annual Board meeting, **Shannon R. LaRocque, PE** was announced the new Board Chair and **Ernest A. Cox, III, PE** as the Vice-Chair for the 2014-2015 term. Ms. LaRocque replaces **Jeff Arey, PE**; however, he will remain an active member of the FEMC Board.

Ms. LaRocque is a registered PE and 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. In 2012, Ms. LaRocque was recognized by the National Society of Professional Engineers (NSPE) as their PEGASUS Award Winner, for her outstanding contribution to the advancement and practice of engineering. Ms. LaRocque has served on the FEMC Board since 2010 and this is her first term serving as Chair.

Ernest A. Cox, III, PE is the Senior Vice President and Principal Engineer for Ardaman & Associates, Inc. headquartered in Orlando, Florida. He is a registered professional engineer and in addition to his many years practicing within his profession he has been very active in serving professional organizations. Mr. Cox has held several Board positions with the Florida Institute of Consulting Engineers (FICE) that included serving as their 2005-2006 President. He is a member of the University of Florida Department of Civil Engineering Advisory Board and was the inaugural President of the UF Civil Engineering Alumni group, "Civil Gators." Mr. Cox has served on the FEMC Board since 2008 and this is his first term as Vice-Chair.

In addition to the new Chair appointments, FEMC welcomes new member **John R. Stewart**. Mr. Stewart is a Certified General Contractor and has extensive experience in serving in this capacity and as a construction manager for a number of commercial/government projects in the State of Florida. He is the former Executive Vice-President of Peter R. Brown Construction, Inc. and is the current owner/operator of JMS Builder Tallahassee, LLC. Mr. Stewart began serving his first term with the FEMC Board on May 29, 2014.

Congratulations to all on their recent appointments. FBPE and its staff look forward to working together in the coming year.

For a full listing of FBPE and FEMC board members go to our website at www.fbpe.org and select *About FBPE* or *About FEMC*.

USF Names New Dean for the College of Engineering



On August 8, 2014, **Robert H. Bishop, PhD**, began his role as the new Dean of the USF's College of Engineering. Recognized as a distinguished teaching professor and researcher in aerospace engineering, Dr. Bishop is a specialist in the application of systems and control theory to modern engineering products. He also works with NASA on advanced navigation algorithms for test flight vehicles.

Bishop takes over for **Rafael Perez, PhD**, who served as the College of Engineering's interim dean for the past year. During that time, Dr. Perez kept a steady hand on the college's strategic direction – successfully maintaining ABET accreditation (Accreditation Board for Engineering and Technology), earning a coveted

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TEAm (Targeted Educational Attainment) Grant from the Board of Governors and Florida Legislature to help fill workforce gaps in information technology, and managing increased student demand and enrollment while making gains in student retention.

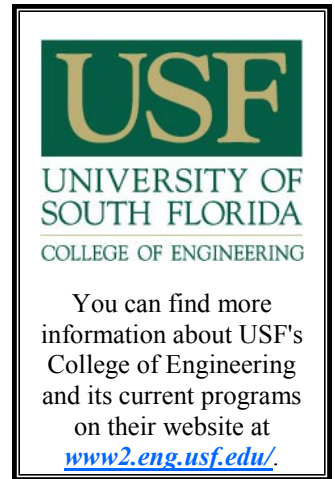
The USF College of Engineering currently enrolls more than 4,600 students, employs 150 faculty members and conducts more than \$25 million in annual research. Its research focuses on energy, sustainability, robotics, nanotechnology, materials, transportation, water, computer system design, security, pattern recognition, analytics and optimization, biomedical, health systems and communications. As Dean of the college, Dr. Bishop will continue the development and realization of strategic goals and advocate for the college on a state, national and global level. "I am honored to join a team that is dedicated to student success and strategically focused on positively impacting the future," Bishop said. "The University of South Florida is an exciting and dynamic place. I can't wait to see what we accomplish together."

Bishop was selected to lead Marquette's engineering college in 2010 after previously working as a professor at the University of Texas-Austin. Before then, he was a practicing engineer at Draper Laboratory - the Massachusetts Institute of Technology spinoff that has played a historically significant role in the U.S. space program - where he developed an international reputation as a leading specialist in guidance, navigation and control of aerospace vehicles.

One of Bishop's most high-profile projects is working on NASA's ALHAT (Autonomous Landing and Hazard Avoidance Technology) project - an effort to build a vertical takeoff and landing navigation system and avoid hazard. The project is best known through the Morpheus, NASA's prototype flight vehicle, where Bishop and his students contributed to the vehicle's navigation systems and worked with NASA on techniques for achieving precision planetary landing support. Bishop said he will continue his research and his teaching at USF.

Acknowledgments

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Glicksman Appointed Dean of Florida Tech College of Engineering

Noted materials scientist and metallurgist **Martin E. Glicksman, PhD**, was appointed the new Dean of the College of Engineering at Florida Institute of Technology on August 6, 2014. He held the position on an interim basis since January. Dean Glicksman also serves as the Allen S. Henry Chair and University Professor of Engineering.



Dr. Glicksman, who joined the Florida Tech faculty in 2011, is a recognized expert on the solidification of metals and semiconductors, atomic diffusion processes, the energetics and kinetics of material interfaces and microstructure evolution. He graduated from Rensselaer Polytechnic Institute with a bachelor's degree and a doctoral degree in physical metallurgy. The National Academy of Sciences selected him as a postdoctoral associate in metal physics at the Naval Research Laboratory, where he subsequently served as Research

Metallurgist, Head, Transformations and Kinetics Branch, and as Associate Superintendent of NRL's Solid-State Division. Dr. Glicksman then joined the faculty of Rensselaer in 1975 as Chair, Materials Science and Engineering Department, and in 1986 was selected as the first John Tod Horton Professor of Engineering. In 2006, he was appointed as a Florida 21st Century Scholar at the University of Florida.

"The opportunity to help guide the College of Engineering at this point in Florida Tech's history is both exciting and challenging, as the impact of engineering and engineers on U.S. society has never been greater or more critical to our nation's future," said Dean Glicksman.

Dean Glicksman has co-authored more than 300 technical papers, reviews and monographs, and written two major textbooks: "Diffusion in Solids" and "Principles of Solidification." He is a member of the National Academy of Engineering, and recently served as chair of their Materials Engineering Section. He is also a Fellow of the Metallurgical Society, the American Association for the Advancement of Science, the American Institute for Aeronautics and Astronautics, and the American Society for Metals. He held visiting professorships in the United States, Germany, Switzerland, Spain, Israel, Greece and Brazil. In 2002-2003 he was selected for an Alexander von Humboldt senior research prize, at the Metal Physics Institute, Rhine-Westphalian Technical University, Aachen, Germany. In 2013, the Japan Society for the Promotion of Science appointed him as a resident scholar at the Institute for Low Temperature Science, University of Hokkaido, Sapporo, Japan.

Glicksman's experiments aboard Space Shuttle Columbia led to his receiving NASA's Award for Technical Excellence and the 1998 National Space Processing Medal. He is also the recipient of ASM's Rockwell Medal and their 2003 Gold Medal, TMS's Chalmers Award, Case-Western Reserve's van Horn Award, and

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the American Association for Crystal Growth's National Award. In 2010 he was awarded the Sir Charles Frank Prize of the International Organization for Crystal Growth for his fundamental contributions to crystal growth theory. Dean Glicksman presented the 89th Edward DeMille Campbell Lecture in 2011, and was awarded Honorary Membership in the American Society for Materials International.

Acknowledgments

The information and photo used in this article were reprinted with permission from the FIT's College of Engineering. The content and photo cannot be reused from this publication without express written consent from FIT's College of Engineering. If you have any questions contact **Wesley Sumner**, Vice-President of FIT's Marketing and Communications at wsumner@fit.edu.

About FIT's College of Engineering

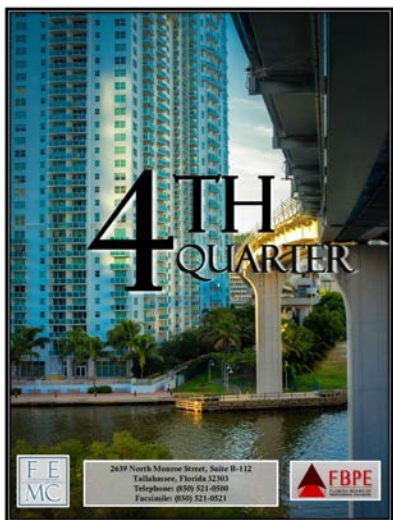
Florida Tech's College of Engineering is the largest college within the university, with over 1,700 undergraduate and graduate students, and 70 dedicated faculty members. The College currently offers over 45 bachelors, masters, and doctoral degree programs and is continually ranked as one of America's top technological institutions in engineering by the Fiske Guide to Colleges. You can find more information about FIT's College of Engineering and its current programs on their website at www.coe.fit.edu/.



Florida Institute of Technology

FEMC & FBPE Quarterly Reports

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



You can view the latest report for the 4th quarter of the 2013-2014 contract year, along with previous issues, by visiting our website at www.fbpe.org and selecting *Quarterly Reports* under the *Corporate* section.

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

Mark Your Calendar

October 2014

- 8-9** FEMC & FBPE Board Meetings
- 14** FBPE @ Valencia College & ERAU
- 24** FBPE @ FAMU/FSU
- 24** NCEES PE Examinations
- 28** FBPE @ UF and USF
- 29** FBPE @ USF
- 30** FBPE @ UF

November 2014

- 2** Daylight Savings Time Ends
- 11** FBPE Offices Closed-Veteran's Day
- 14** FEMC Board Ops Conference Call
- 18** Application Review & PCP Meeting
- 19** Rules Committee Meeting
- 24** Ratification Conference Call
- 27-28** FBPE Offices Closed-Thanksgiving

December 2014

- 3-4** FEMC & FBPE Board Meetings
- 24-25** FBPE Offices Closed-Christmas

January 2015

- 1** FBPE Offices Closed-NewYear's Day

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

2014 Competition Winners of FICE's Engineering Excellence Award

In the March 2014 issue of FBPE's *Connection* newsletter we featured an article submitted by the Florida Institute of Consulting Engineers (FICE) regarding the announcement of the 2014 winners of their Engineering Excellence Awards (EEA). In this issue we are sharing additional information about the award winning projects including the Grand Conceptor Award winner. Videos highlighting each of these projects are now available on YouTube™. To access these videos go to YouTube™ and search by the project name or be automatically linked to the video by simply hovering over the project name listed on page 10. If you have any questions regarding these projects or next year's competition please contact FICE Director of Communications **Debbie Hall** at (850) 224-7121 or at dhall@fleng.org.

The excellence awards are given in recognition of firms in Florida for their original or innovative applications to projects and studies. These projects and studies are judged on the basis of uniqueness and innovative applications; future value to the engineering profession; perception by the public; social, economic, and sustainable development considerations; complexity; and successful fulfillment of client/owners' needs, including schedule and budget.

The *Grand Conceptor Award* winner chosen from the grand awards as the overall best engineering project from the State of Florida was **Hazen and Sawyer, PC** for the [Miami-Dade South District Wastewater Treatment Plant \(SDWWTP\) High Level Disinfection \(HLD\) Upgrade](#) for Miami-Dade Water and Sewer Department.

About the Winning Project

Due to population growth projections, water resource shortages, new regulatory requirements, and a Florida Department of Environmental Protection Consent Order, the Miami-Dade Water and Sewer Department implemented a landmark upgrade of its South District Wastewater Treatment Plant (SDWWTP). This upgrade ensured that effluent meets reclaimed water High Level Disinfection (HLD) standards (in addition to primary drinking water standards) and increased the capacity of the SDWWTP nearly 30% (from 225 to 285 MGD.)

This program involved comprehensive and integrated scheduling of 14 projects to ensure federally-mandated deadlines were met. Deep bed filters and on-site hypochlorite generation (OSHG) facilities were added, and most existing facilities upgraded, using cutting-edge modeling (such as 2D computational fluid dynamics modeling) and equipment that prioritized process optimization. Innovative designs, such as a unique filter underdrain pipe system, aggressive filter loading rates, and implementation of improved operational procedures reduced costs and construction complexity.

The upgraded SDWWTP also allows for on-site reclamation and future reclamation of up to 90 MGD average daily flow for Florida Power and Light cooling water.

The program resulted in one of the largest HLD facilities, and the largest OSHG facility, in the U.S. The plant was successfully placed in service about 15 months ahead of schedule and approximately 10% under the \$618 million budget.

For a listing of the other award winners go to page 10.



Photo: (shown left to right) FICE President **Richard J.A. Temple, PE**, **Dr. Grace Johns** with Hazen and Sawyer and FICE President-elect **Timothy P. Brodeur, PE**.

(Continued on page 10)

Other Grand Award and Honor Award Winners

1. [AECOM Technical Services Inc's Davie Green Water Project Town of Davie Utilities](#)
2. [Avcon SR 600 Pavement Rehabilitation FDOT District V](#)
3. [Ayres Associates' Courtney Campbell Multiuse Trail Bridge FDOT District VII](#)
4. [Carollo Engineers Inc.'s System 2 WTP Ion Exchange Treatment Palm Beach County Water Utilities Department](#)
5. [CDM Smith Inc.'s SFWMD Lakeside Ranch STA South Florida Water Management District](#)
6. [CH2M HILL Wekiva Parkway \(SR 429\) PD&E Study FDOT District V](#)
7. [FINLEY Engineering Group Inc.'s Checkered House Bridge Route 2 Design-Build - Vermont Agency of Transportation](#)
8. [Genesis' Franklin Blvd City of Tallahassee – Leon County Blueprint 2000](#)
9. [Hazen and Sawyer, PC and Federico, Lamb and Associates' C-51 Reservoir P3 City of Fort Lauderdale](#)
10. [Mathews Consulting Inc.'s Duck Key Utility Improvements Florida Keys Aqueduct Authority](#)
11. [Parson Brinckerhoff Inc.'s Central Florida Water Initiative – Groundwater Availability - Polk County – STOPPR Group](#)
12. [RS&H's SR 408/SR 417 System Interchange Orlando-Orange County Expressway Authority](#)
13. [RS&H's Mid-Atlantic Regional Spaceport Pad-0A -Virginia Commercial Space Flight Authority](#)
14. [RS&H's Depot Avenue Rail-Trail Pedestrian Bridge Gainesville Community Redevelopment Agency](#)
15. [Kimley-Horn and Associates Inc.'s Celery Fields Regional Stormwater Facility Sarasota County](#)

Acknowledgments

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About FICE

The Florida Institute of Consulting Engineers (FICE) represents the professional and business interests of professional engineers in private practice in Florida and their companies, serving to advance the profession of consulting engineering. FICE represents and promotes the business of engineering, the environment in which engineering is conducted, and the image of engineers in private practice. In these capacities, FICE serves as the state affiliate of the American Council of Engineering Companies (ACEC). As the affiliate of the Florida Engineering Society's (FES) Professional Engineers in Private Practice (PEPP), they work to show how doing business with other FICE firms supports better business practices in Florida.

You can find more information about the excellence awards and FICE by going to their website at <https://www.fleng.org/FICE/aboutfice.cfm>.



AECOM Technical Services Inc. Davie Green Water Project Town of Da...



Ayres Associates Courtney Campbell Multiuse Trail Bridge FDOT Distr...



Avcon SR 600 Pavement Rehabilitation FDOT District V



Carollo Engineers Inc. System 2 WTP Ion Exchange Tx Palm Beach Coun...



CH2M HILL Wekiva Parkway (SR 429) PD&E Study FDOT District V



Hazen and Sawyer, PC and Federico, Lamb and Assoc C-51 Reservoir P...



CDM Smith Inc. SFWMD Lakeside Ranch STA SFWMD



Genesis Franklin Blvd City of Tallahassee – Leon County Blueprint ...



FINLEY Engineering Group Inc. Checkered House Bridge Route 2 D-B Ve...



Kimley-Horn and Associates Inc. Celery Fields Regional Stormwater F...



Mathews Consulting Inc. Duck Key Utility Improvements Florida Keys ...



Hazen and Sawyer, PC Miami-Dade SDWWTP HLD Upgrade



Parson Brinckerhoff Inc. Central Florida Groundwater Availability ...



RS&H Mid-Atlantic Regional Spaceport Pad-0A Virginia Commercial Sp...



RS&H SR 408/SR 417 System Interchange Orlando-Orange County Expres...



RS&H Depot Avenue Rail-Trail Pedestrian Bridge Gainesville Communit...



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The Importance of Maintaining Control of Your Seal

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

Within its Spring/Summer newsletter, the National Academy of Forensic Engineers (NAFE) ran an article by one of its members discussing the importance of an engineer's seal. The article contained the following statement:

"Having taken on about 3,500 cases since, some that do not have a "report," and some more than one, I can't give you a count on the number of "reports," but EVERY ONE that looked, smelled or was titled as a report has been signed and sealed by me personally. Of course, ordinary letters, memos etc. do not get the seal, just signature or initials as appropriate."

An engineer's use of his or her seal is a responsibility not to be taken lightly. In fact many states including Florida require the engineer to maintain control of his or her seal, holding that engineer liable should the seal be improperly used by them or anyone else. However, this author seemed to imply that only reports required an engineer's seal and that's not true here in Florida.

Here in Florida, our laws and rules require any document filed for public record (directly or indirectly) to bear the engineer's signature, date and seal at a minimum. Specifically, **F.S. 471.025(1)** and **Rule 61G15-23.002, F.A.C.** require not only all final engineering documents filed for public record but all final engineering documents "provided to the owner or the owner's representative" to be signed, dated and sealed. This would include not only plans but reports and even letters that contain engineering opinions or directives.

Therefore, in lieu of using the look, smell or title of a document, a licensed engineer is better served to simply develop the practice of signing, dating and sealing any document produced that contains an opinion, directive or creative work based on or reflecting the practice of engineering.

To view the most recent version of Florida's engineering laws and rules go to the *Statutes and Rules* page under the *Legal* section of our website at www.fbpe.org/legal/statues-and-rules.



National Academy of Forensic Engineers

Chartered Affinity Group of the National Society of Professional Engineers
Charter Member of the Council of Engineering and Scientific Specialty Boards

Professional Engineers (NSPE). They must also be members in an acceptable grade of a recognized major technical engineering society. NAFE is formally affiliated with NSPE, but is an independent organization incorporated in the State of Virginia. To find out more about NAFE and how to become a member, go to their website at www.nafe.org/.

The National Academy of Forensic Engineers (NAFE) was founded to bring together those professional engineers who have attained substantial experience and recognition in forensic engineering practice. It seeks to improve the practice, elevate the standards, and advance the cause of forensic engineering. Membership in the Academy is limited to Registered Professional Engineers who are also members of the National Society of

FBPE's Engineering Board Committees

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

The Florida Board of Professional Engineers has numerous technical committees that it uses to conduct its business. These committees meet on alternate months from the full board meetings and are used to accept or solicit input from Florida's licensees. Currently the active committees include:

- ⇒ **Rules Committee** chaired by Board member **John Burke, PE**.
- ⇒ **Traffic Engineering Committee** chaired by Board member **Kenneth Todd, PE**.
- ⇒ **Structural Rules Committee, SE Licensure Committee, and Authorized Representative Committee** all chaired by Board member **William C. Bracken, PE, SI, CFM**.

The **Rules Committee** is a standing committee tasked with examining, considering and, when required, developing rules or modifying rules found within **Florida Administrative Code 61G15**. With the recent changes to **Florida Statute 471**, this committee is currently working on integrating the changes into our rules. Currently this committee meets in March, July and November.

The **Traffic Engineering Committee** is a special purpose committee working with representatives from various engineering and planning societies to help define the role of Traffic Engineers versus Traffic Planners in the State of Florida. The goal is to establish boundaries and develop rules for consideration as required.

(Continued on page 22)

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.

Allen Gezelman, PE
PE 59180
Case No. 2010035452

Licensee was charged with negligence in the practice of engineering, a violation of **Section 471.033(1)(g), Florida Statutes**. Licensee was hired to perform a special inspection on a roofing system. Licensee provided an Affidavit which indicated that he visited the site, looked at the job log entries, observed cores taken from the roof, etc. Licensee's inspection and Affidavit were materially deficient. Licensee failed to comply with the specific provisions of applicable codes and standards when he prepared and issued the Affidavit. **Section 471.033(1)(g), Florida Statutes**, provides that an engineer is subject to discipline for engaging in negligence in the practice of engineering. **Rule 61G15-19.001(4), F.A.C.** provides that negligence constitutes failure by a professional engineer to utilize due care in performing in an engineering capacity or failing to have due regard to acceptable standards of engineering principles.

Ruling: This case was presented to the full Board for review with a Settlement Stipulation. Pursuant to the Settlement Stipulation, the Board imposed a Fine of \$500.00, Costs of \$1,000.00, Appearance before the Board, a Reprimand, completion of the Study Guide, and a Board Approved course in Engineering Professionalism and Ethics. A Final Order was issued on June 18, 2014.

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

Oliver Turzak, PE
PE 18230
Case No. 2011032162

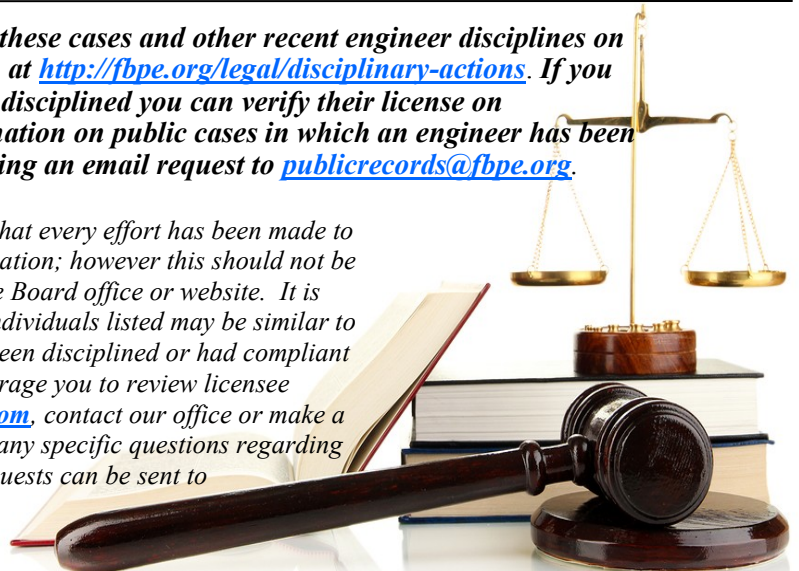
Licensee was charged with negligence and misconduct in the practice of engineering, a violation of **Section 471.033(1)(g), Florida Statutes**. Licensee signed, sealed and dated engineering documents for settlement stabilization at a residence. The engineering documents were materially deficient. The deficiencies include, but are not limited to: The spacing of anchors along the exterior walls exceeds the capacity of the existing footing to span between the new anchors and support the loads from above; the details indicate a manufacturer but there is no specific product information, product identification number or strength of materials. Licensee signed, sealed and dated an engineering opinion related to the residence. While the opinion indicated the implementation of a remediation program, this had not been performed or anyone acting under his supervision, nor had the site been repaired.

Ruling: A Final Order was issued against Mr. Turzak, adopting the recommendations of the Recommended Order which imposed a Fine of \$2,000, Costs of \$7,162.32, SUSPENSION for one (1) year from the date of the Final Order, Probation upon reinstatement of Licensee's license from suspension which includes, Project Review at six (6) and eighteen months, and completion of the Study Guide. A Final Order was issued on June 24, 2014.

Violation: Section 471.033(1)(g), 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.

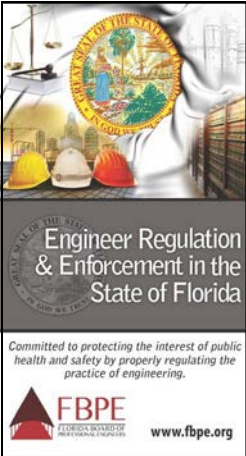
Disclaimer: FBPE would like to note that every effort has been made to ensure the accuracy of discipline information; however this should not be relied upon without verification from the Board office or website. It is possible that names of companies and individuals listed may be similar to the names 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.



New FBPE Brochures Available for Download

Three new brochures are currently available to assist licensees and the public with its policies and procedures as it relates to the regulation and enforcement of the practice of engineering in the State of Florida. You can access these brochures on our website on the *Legal Overview* or *Public Records* page under the *Legal* section from the *Home* page or select one of the images below to be linked to them directly.

Engineer Regulation & Enforcement in the State of Florida



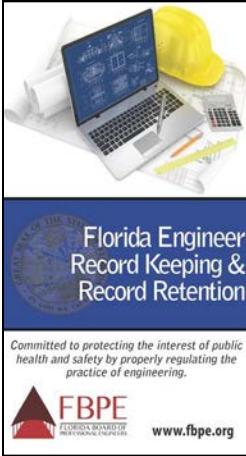
This brochure provides a brief overview of the legal department's responsibilities, a definition of the complaint process, what constitutes unlicensed activity, and how to tell if an engineer has been disciplined.

Florida Engineer Public Records Requests



Any member of the public may request information about disciplinary or enforcement actions involving Florida engineers or engineering firms. This brochure explains the Florida Statute and what information must be provided to request public records.

Florida Engineer Record Keeping & Record Retention



This brochure identifies the two provisions of Florida Administrative Code that relates to a licensee's requirements for record retention and what documents qualify under the code.

Should you have any questions related to information contained in these materials or any of the laws and rules related to the practice of engineering in the State of Florida please contact our Board office at **(850) 521-0500** and ask to speak to someone in the *Legal* department.

Other downloadable department brochures and newsletters are available on our *Publications* page under the *Meetings and Information* section of our website at www.fbpe.org/meetings-and-information/publications.

In Case You Didn't Know...

As provided in *Section 455.227(1)(t), Florida Statutes, Grounds for Discipline; Penalties; Enforcement*, all FBPE licensees are required to report in writing to the Board within 30 days after the licensee is convicted or found guilty of, or entered a plea of *nolo contendere* or guilty to, regardless of adjudication, a crime in any jurisdiction. Failure to timely report will result in disciplinary action being taken against the licensee.

To report this information to the Board send an email to **Wendy Anderson**, FBPE/FEMC Investigator at wanderson@fbpe.org. You must include your name, license number, the date of the conviction, what you were convicted of or the charge to which you pled guilty along with any sentencing information (if that is available upon reporting.)

You can read the above mentioned statute in its entirety at www.leg.state.fl.us/Statutes or to view all the laws and rules as it relates to the practice of engineering you can go to our website at www.fbpe.org and select *Statutes and Rules* under the *Legal* section on the *Home* page.



RENEWAL is Coming... Are You Ready?

All Florida engineer and certificate of authorization licenses, both current and active, are set to expire on **February 28, 2015**. As a reminder of the upcoming renewal cycle, FBPE sent a “Save the Date” email to all of its Florida licensees in mid-September 2014 providing information regarding renewal. Included were recommendations on how to prepare your account, how to change your contact information, and how to handle your continuing education credits.



Licensure Renewal will officially open on **November 3, 2014**, and to make it easier for the license holder to renew their license, we have provided the following guidelines and explanations of some changes that have recently been made.

1. Different than last renewal cycle, you can use one of the following web browsers to access the renewal system: Internet Explorer, Mozilla Firefox or Google Chrome. We encourage you to make sure that you have the most current versions of any one of these browsers prior to attempting to renew your license.
2. You will go to www.myfloridalicense.com, and either select “Renew Your License” or “Licensee Login.” If you have not accessed your account recently, you may be prompted to “Create an Account.” You need a **PIN Number** or **Activation Code**, which is the last four digits of your social security number, to successfully create your account. If your social security number will not work, you should contact the Florida Board of Professional Engineers at **(850) 521-0500** and select “Renewal” to update your record. Once you have established your account, you may change your contact information, if necessary, then continue the process to renew your license.
3. Beginning with last renewal period, you no longer are required to report continuing education to the Board. However, **you still must complete** the required four (4) hours of Area of Practice and four (4) hours of Laws and Rules, and you must keep proof of completion for four (4) years (two renewal cycles) after renewal. You will execute an “Attestation Statement” that you have completed the required continuing education for renewal. Pursuant to **Rule 61G15-22.006, F.A.C., Demonstrating Compliance**, all licensees are subject to a random audit for compliance with continuing education requirements. If you are selected for the audit, you must then submit proof of completion of the credits to the Board. You can access the rule by going to the *Statutes and Rules* page under the *Legal* section at <http://www.fbpe.org/legal/statues-and-rules>.

Postcard notices and electronic reminders will be distributed during the month of October and again in January 2015. We recommend that you access your account information now and validate that your mailing address and email on file are current to ensure receipt of these notices. You can also verify that your social security number is on record so that your PIN can be activated prior to renewal. Again, if you cannot access your record contact FBPE at **(850) 521-0500** and select “Renewal” to speak to a representative to correct your record.

All information pertaining to renewal will be posted on our website at the end of October 2014 in the *Licensure* Section under *License Renew* or at <http://www.fbpe.org/licensure/license-renew>. A presentation outlining the renewal process step-by-step will also be available in this section of our website at that time.

Renewal for the 2015-2017 biennium will be available on-line only. Should you have circumstances that will prevent you from renewing your license on-line, you can contact the Board office at **(850) 521-0500**, and select “Renewal” and request a hardcopy renewal application. **PLEASE NOTE: You must allow at least 6 weeks to process our renewal request using this method, which means your request must be received by FBPE no later than January 16, 2015, to ensure that your license does not lapse and become delinquent.**

TOP 10

Questions Regarding Renewal

F *FBPE has compiled the following **Top 10** list of the most frequently asked questions received during each renewal cycle. We hope these questions and answers will provide clarification of some of the most common issues licensees are faced with each biennium and how to get them resolved. If you have any other questions or require additional information regarding any of the questions below we encourage you to contact the Board office at (850) 521-0500 and select "Renewal."*

1. How much is the renewal fee? There is a 25% reduction in the cost of renewing your license for the 2015-2017 biennium. The total fee is \$98.75, which includes the renewal cost of \$93.75 plus \$5.00 for an unlicensed activity fee. The \$5.00 fee is for unlicensed activity, which FBPE must charge pursuant to *F.S. 497.140*. This fee is collected by the State of Florida to combat the unlicensed practice of engineering.

2. I'm trying to create my account and I am being asked for an activation code. What is that? Your activation code should be the last four digits of your social security number (SSN). For those trying to renew a Certificate of Authorization, the activation code should be the last four digits of your employer identification number (FEIN). If you cannot access your account by using this information, contact the Board office at (850) 521-0500 and select "Renewal" for assistance.

3. I'm trying to renew my license and the system is saying my account is associated with another email address. How can I verify what email address is associated with my account? Contact the Board office at (850) 521-0500 and select "Renewal" to verify the email address on file with your account. If the email associated with your account is no longer valid we can "unlink" your account so that a new email address can be added to your record, but be advised you will not be able to use the existing email address again with your account.

4. I forgot the answer to the security question associated with my account. How can I get that information? Contact the Board office at (850) 521-0500 and select "Renewal" for assistance or send an email request to *Nancy Wilkins* at nwilkins@fbpe.org. Once we have retrieved the information for you an email will be sent to you with the answer to your security question; however, it may take up to 24 hours to complete your request. If you are sending an email request to retrieve your answer, you MUST include your name, license number and email to complete the request.

5. I forgot my password to access my account. How can I retrieve that information? If you attempt to sign into your account to renew your license and have forgotten your password, you can select "Forgot My Password." You will then be prompted to "Create a New Password" by answering your security question and should then be able to access your account. If you do not know the answer to your security question please follow the instruction provided in question four (4).

6. I tried to renew my Certificate of Authorization and received a "SQL error message." What does that mean? If you have received this message after attempting to renew your CA

license, that means that the principle or qualifying engineer associated with that license has not renewed his/her license. The individual licensee identified as the principle for a firm or company providing engineering services in Florida MUST renew their license first before attempting to renew the CA license.

7. My license status is "Delinquent/Active." What does that mean? Your account has a status of "delinquent/active" because you did not renew during the last renewal period. In order to renew your license for the 2015-2017 biennium, you MUST complete eight (8) hours of Area of Practice and eight (8) hours of Laws and Rules before you can renew. This will cover the prior renewal period in addition to the current renewal period. You will also be required to pay a delinquent fee for the past renewal cycle along with the current renewal fee. If you do not renew before the ending of the 2015-2017 renewal biennium which ends on **February 28, 2015**, your license will become "Null and Void."

8. My license status is "Null and Void." What does that mean? A license status of "Null and Void" means that you have missed two renewal cycles, therefore your license number is no longer valid. If you wish to re-register with Florida, you may apply through the endorsement program. Information related to licensure through endorsement is available on our website at <http://www.fbpe.org/licensure/application-process/endorsement-comity-reciprocity>. You can also access this information by selecting *Endorsement (Comity and Reciprocity)* page under the *Licensure* section from our home page at www.fbpe.org.

9. My license is currently inactive and I want to renew and become active. Can I renew my license on-line when renewal begins? You may renew your license on-line even though your license is currently in an "inactive" status. Complete the renewal process by going to www.myfloridalicense.com, and select "Renew Your License" or "Licensee Login." After you have renewed and paid your fee, contact *Nancy Wilkins* via email at nwilkins@fbpe.org and include a copy of your receipt to request your status change.

10. Can I fax or email my certificates for my continuing education to the Board? Yes, you may fax or email your certificates related to completion of continuing education to the Board, however you are no longer required to report continuing education to the Board. Pursuant to *Rule 61G15-22.006, F.A.C., Demonstrating Compliance*, the licensee is responsible for retaining receipts, certificates, or other papers as may be necessary to document completion of continuing education pursuant to an audit for four years from the date of completion of the continuing education activity. You can fax certificates to *Nancy Wilkins* at the Board office at (850)521-0521) or email the information to nwilkins@fbpe.org.

New Change to the FE Exam Registration Process



As of July 25, 2014, a candidate seeking to take the FE CBT Exam has two options for registration: direct registration with NCEES or pre-approval with FBPE. Please read the registration option details below very carefully. The State of Florida requires specific education requirements to obtain Engineer Intern certification or Professional Engineer licensure regardless of what registration option is selected. We encourage you to contact us regarding these requirements prior to registering for the FE exam or applying for the PE exam should you have any questions.

Option 1 - Direct Registration with NCEES - FE Exam Only

A candidate can register directly with NCEES to sit for the FE exam by creating a MyNCEES account on NCEES' website at <https://account.ncees.org/login>. Once the account is created the candidate can select "Register" and follow the on-screen instructions. An exam fee of \$225 is payable directly to NCEES during this process. When registration is completed and approved, the candidate will be notified and provided authorization to schedule the exam appointment. An exam appointment can be scheduled by accessing the candidate's MyNCEES account, selecting "Schedule," and choosing their preferred Pearson Vue Testing Center location and exam date. Candidates will receive their exam results directly from NCEES.

If the candidate wishes to apply for certification as an Engineer Intern (EI) in Florida and has directly registered with NCEES, the *FE Endorsement Application* must be completed and submitted to FBPE for approval. Once the application has been paid in full, processed and approved, an EI certification will be issued to the candidate. The application fee for endorsement is \$100.

Option 2 - FE Exam Application/Registration with FBPE

A candidate can also apply with FBPE prior to registering for the FE exam with NCEES. A candidate seeking professional licensure in

Florida, who wants to ensure that he or she has met the education requirements to qualify as an Engineer Intern, should submit the *FE Initial Examination Application* and a fee of \$30 to FBPE. Once the application has been reviewed and approved by FBPE, the candidate can then register with NCEES.

The registration process with NCEES is the same as stated above in that the candidate must create a MyNCEES account to register (go to <https://account.ncees.org/login>), pay the \$225 exam fee, and choose the exam "period" that best suits their schedule from one of the exam windows. Once the exam has been completed the grades will be reported to the candidate and the Board. When the Board receives notification of the passing candidates, EI certificates will be issued and mailed to the recipient.

If the candidate should not achieve a passing score, he or she must either re-register directly with NCEES (if this option was taken) or submit a re-exam application to FBPE for approval to schedule another attempt to take the exam. NOTE: Only one attempt to take the exam can be made within an exam window.

You can access all information and applications related to applying for licensure and the exam process by going to the *Licensure* section of website at www.fbpe.org and selecting the *Application Process* page or the individual examination pages.

Licensure Verification & Fee Removal

As mentioned in the opening article, pursuant to the recent change to **Rule 61G15-24.001**, that went into effect July 28, 2014, there is no longer a fee associated with submitting licensure verifications to FBPE. If you are a Professional Engineer seeking licensure in another state or are an Engineer Intern seeking verification of EI exams, you can complete verification requests by either going to NCEES directly or submitting a request to FBPE.

To request verification from NCEES directly, go to <https://verify.ncees.org/>. You can then select the Board to which you are submitting an application and complete the interactive form to submit your request.

To request licensure verification with FBPE, download our form located in the [Other Forms](#) section of our website under *Licensure* and follow the instructions. If you have any questions regarding the verification process please feel free to contact our office at **850-521-0500**.

No Mo' MoE (Master's or Equivalent) An EAC/ABET B.S. Degree Will Suffice

Submitted by: Michelle Rambo-Roddenberry, PhD, PE

The business session at the 2014 NCEES Annual Meeting in Seattle, Washington, held August 20-23, 2014, consisted of the customary discussions, committee reports, motions, and debate on issues related to engineering licensure. The most controversial agenda item was a motion, brought to NCEES's attention a month prior by Oklahoma State Board of Licensure for Professional Engineers and Land Surveyors, to remove all language from the NCEES Model Law and Model Rules that refers to Model Law Engineer 2020 (MLE 2020) or Model Law Structural Engineer 2020 (MLSE 2020). The Vermont Board of Registration for Professional Engineers moved to substitute Oklahoma's motion by asking the NCEES president to instead charge a committee/task force to analyze the Model Rules regarding MLE and MLSE 2020 and recommend means to eliminate any unintended effects they might have, and to consider the best method of codifying the additional education requirements currently in the Model Law and Model Rules.

After some discussion, an amendment to the Oklahoma motion was presented – putting three balls in the air and forcing then NCEES President Mamola to preside by juggling instead of playing catch. Parliamentary procedure and a woman's grace kept the dialogue flowing and the mood light (considering the magnitude of the issue), in spite of strong opinions from the debaters and witnesses. The submission of alternating fors and againsts were well balanced and left little hint as to what the final outcome might be: it could have gone either way. No wonder: engineering societies, too, are split in their opinions on additional education requirements. NCEES membership, which consists of 70 engineering and surveying licensing boards, voted *against* the amendment, leaving two balls in the air. They then voted 27-to-37 *against* Vermont's substitute motion, and then ultimately 45-to-18 *for* Oklahoma's motion to remove MLE 2020.

NCEES "pre-2020" Model Law states that an engineer should be able to obtain a license "by examination" if he/she meets specific requirements for experience, examination, and education, where the required years of experience depends on the individual's education, which can be met in one of the following ways: 1) an engineering bachelor's degree, 2) an engineering master's degree from an EAC/M-ABET-accredited program, or 3) an engineering doctoral degree. After the year 2020, Model Law essentially stated that (unless he/she has an engineering doctoral degree) the individual's education must include an engineering master's degree, additional coursework beyond the bachelor's degree, or a bachelor's degree with a 150-semester-hour minimum.

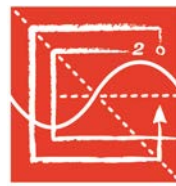
When the meeting ended, I felt like I had witnessed an historical event: MLE 2020, which was voted into effect in 2006, was ousted by the same council member boards that voted it in. MLE 2020 was the result of many years of work by advocates of additional engineering education beyond the bachelor's degree. The most popular reason for the ousting was the inability of boards to actually implement it; perhaps some boards just had a change of heart. MLE 2020 supporters were understandably disappointed in the vote, while those with anxiety about the fast-approaching 2020 deadline were relieved that changes to the education prescribed for engineering licensure are no longer imminent.

Proponents of Oklahoma's motion expressed concern that incoming college freshmen are deciding *now* whether or not to pursue engineering, and they have the burden of not knowing if their future profession will require them to obtain one degree or essentially two. There is a lack of understanding by students, faculty, and practicing engineers that licensing laws are made by state legislators and that rules are made by boards – leaving an incorrect belief that Model Law 2020 is gospel and that all engineers will need (essentially) a master's degree to practice, regardless of jurisdiction.

Several boards argued that they have too little time left to implement MLE by 2020, and most, if not all, boards have not yet taken steps towards adopting MLE into their laws and rules. Even if boards try, legislators may not support enactment anyway. One argued that the



(Continued on page 22)



Widmer Begins Term as NCEES President

David Widmer, PLS, began his term as 2014–15 NCEES president at the conclusion of the organization’s annual meeting, held August 20–23, 2014, in Seattle, Washington.

A resident of Rochester, Pennsylvania, Widmer was a member of the Pennsylvania State Registration Board for Professional Engineers, Land Surveyors, and Geologists from 1991 to 2011 and is now an emeritus member. He is president of Widmer Engineering Inc., a consulting firm based in Beaver Falls, Pennsylvania and replaces outgoing president **Patty Mamola, PE**, of Nevada, who will remain on the NCEES Board of Directors as immediate past president.

Also during the annual meeting, NCEES members elected **Michael Konzett, PE**, of Nebraska president-elect for the 2014-15 term. Detailed information about NCEES governance and the most recent bylaws can be found at www.ncees.org/about-ncees/governance/.

The FBPE expresses its gratitude to NCEES’ Past President Mamola for her service during 2013-2014 and extends congratulations to all regarding their recent NCEES’ appointments for the coming year.



NCEES Subject Matter Reports Change

NCEES recently announced that the schedule for releasing NCEES Subject Matter Reports changed due to the new computer-based format (CBT) of the FE and FS exams. Beginning in July 2014, reports will be distributed biannually each July and January.

Report data will be based on the NCEES testing window in which the exam was administered. Exams administered during the January/February and April/May testing windows will be included in the July reports. Exams administered during the July/August and October/November testing windows will be included in the January reports.

As in the past, reports will contain summary results by subject area for all EAC/ABET, ETAC/ABET, and ASAC/ABET accredited engineering and surveying degree programs. Reports will be provided in PDF and CSV formats.

Because the reports include summary results for all accredited programs at your institution, changes to the recipients will be accepted only from the Office of the Dean or Provost at your institution. All such requests should be sent to **Faith Bostic** at fbostic@ncees.org. All other questions, including inquiries regarding the report contents, to include information related to their webinar held on July 22, 2014, to explain the new report format and how to use it should be sent to **Lehmon Dekle** at ldekle@ncees.org.

Sample Subject Matter Reports for CBT Exams

Report title: Fundamentals of Engineering (FE)
Subject Matter Report by Major and Examination
Exams administered: Jan 01–May 31, 2014
Examinees included: First-Time Examinees from EAC/ABET Accredited Engineering Programs
Graduation Date: Examinees Testing within 9 months of Graduation Date

Name of Institution:	EXAMPLE	
Major:	Mechanical	Mechanical
	Institution ABET	
No. Examinees Taking ¹	22	2,316
No. Examinees Passing	19	1,376
Percent Examinees Passing	86%	59%
	Institution ABET	
	Average Performance Index ²	Standard Deviation
Mathematics	10.6	3.1
Probability and Statistics	11.9	3.3
Computational Tools	12.0	4.1
Ethics and Professional Practice	11.4	3.8
Engineering Economics	9.8	4.2
Electricity and Magnetism	11.1	3.8
Dynamics, Kinematics, and Vibrations	9.9	2.6
Mechanics of Materials	10.1	2.1
Material Properties and Processing	9.4	2.2
Fluid Mechanics	9.9	2.1
Thermodynamics	9.7	1.6
Heat Transfer	9.7	2.1
Measurement, Instrumentation, and Controls	9.9	3.4
Mechanical Design and Analysis	8.3	2.5

1. 8 examinees have been removed from this data because they were flagged as a random guesser.
2. Comparator includes all examinees from programs accredited by the ABET commission noted.
3. Performance index is based on a 0-15 scale.
4. These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at <http://ncees.org/licensure/educator-resources/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

Seattle University Wins 2014 NCEES Engineering Award

On June 9, 2014, NCEES announced the winner of its 2014 Engineering Award for Connecting Professional Practice and Education. Congratulations to **Seattle University's Department of Electrical and Computer Engineering**, the \$25,000 grand prize winner.

The department received the top prize for its submission, *Microgrid System for a Wind and Solar Farm Located in Rural Kenya*. For the project, electrical engineering students worked as part of a team that also included faculty, professional engineers, and other professionals to design a hybrid wind- and solar-power microgrid system to provide electricity to a school and surrounding community in Muhuru Bay, Kenya. The jury praised the project for its strong interaction with professional engineers as well as its applications for communities in the United States and abroad.

Five additional winners received \$7,500 awards and they are as follows:

- The Citadel, The Military College of South Carolina, Department of Civil and Environmental Engineering - *Wave Dissipation System*;
- North Carolina State University - UNC/NCSU Joint Department of Biomedical Engineering - *Creating a Better Way to Locate Vasculature for Intravenous Therapy*;
- Seattle University - Department of Civil and Environmental Engineering - *Historic Landmark Incline Lift Structural Evaluation and Retrofit*;
- University of Evansville - College of Engineering and Computer Science - *Fairfield Reservoir and Dam*; and
- University of Notre Dame - Department of Civil and Environmental Engineering and Earth Sciences - *Innovative Housing Solutions for Post-Quake Haiti*.



Photo: (shown left to right) **Michael Quinn**, Seattle University - Dean of the College of Science & Engineering, **Patty Mamola, PE**, NCEES Past President, and **Agnieszka Miguel** Seattle University - Associate Professor & Chair of the Department of Electrical & Computer Engineering.

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.

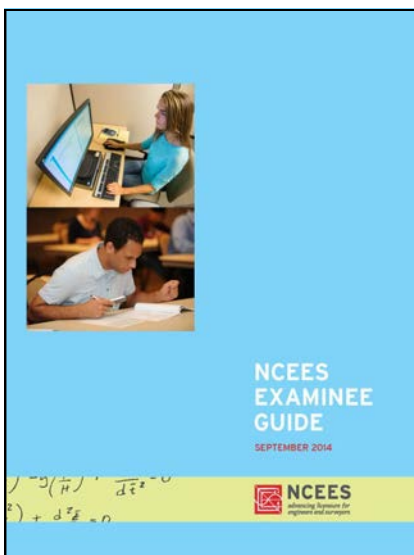
The winners were selected by a jury of NCEES members and representatives from academic institutions and professional engineering organizations. The 11 jury members considered criteria such as:

- Successful collaboration of faculty, students, and licensed professional engineers;
- Benefit to public health, safety, and welfare;
- Multidiscipline and/or allied profession participation; and
- Knowledge or skills gained.

Profiles of the winning submissions are available on NCEES' website at www.ncees.org/licensure/ncees-engineering-award/.

Revised NCEES Examinee Guide New Release-September 2014

NCEES exams are administered in either a computer-based format or a pencil-and-paper format. Each method of administration has specific rules. The NCEES Examinee Guide is the official guide to policies and procedures for all NCEES exams. Please refer to the appropriate section for your exam. All examinees are required to read this document before starting the exam registration process. It is your responsibility to make sure that you have the most recent version of this guide which can be accessed on their website at <http://ncees.org/exams/cbt/examinee-guide/>.



FBPE would like to congratulate all of the candidates that successfully passed the NCEES Fundamentals of Engineering(FE) Exam.

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

NCEES Fundamentals of Engineering (FE) Exam Passers

(Exam Period May 16, 2014-September 24, 2014)

Otniel Aleman
 Christopher Allison
 Boris Alvarez
 Jonathan Anderson
 Abdullah Antar
 Gabriela Araque
 Megan Arias
 Fabio Baldini
 Mohammad Bawany
 Christopher Bello
 Dylan Bertin
 Elizabeth Black
 William Blanke
 Grant Bledsoe
 Matthew Boler
 Kristen Borowy
 Monaem Bouazizi
 Alexander Bourne
 Matthew Brooks
 Latania Brown
 Joshua Brown
 Cole Buck
 Kenneth Cabana
 Jaims Carey
 Ronald Celiz
 Erika Charlassier
 Samuel Cohen
 Mariella Conde
 Sean Connaway
 Spenser Cook
 Timothy Copeland
 David Cowan
 Roberto Cruz
 Eleesha Daley
 Richard Damigos
 Steven Davis, Jr.
 Miguel de Cardenas
 Walter De Wet
 Jesus Del Rosario
 Cameron DeWitt
 Abigail Diaz
 Troy Dudich
 Justin Epstein
 Mariana Evora
 James Farris
 Bruna Ferreira
 Nicholas Filamini
 Andrew Filippi
 Harvy Freitag
 Edgar Garcia
 Zuly Garcia
 George Georgy
 Joseph Gerum
 Matthew Gierson
 Josh Giffin
 Gilberto Gil, Jr.

Jorge Gomis Blasco
 Gabriel Gonzalez
 Andrew Gonzalez
 William Gravely
 Ryan Gray
 Grant Gray
 Matthew Grewe
 Najemeddine Habachi
 Christopher Hahn
 John Hamilton
 Nathan Haney
 Alexander Hanhold
 Bridget Harrigan
 Aaron Hearnz
 William Heausler
 Erik Hedrick
 Ubaldo Hernandez
 Jeremy Hess
 Matthew Hickey
 Joshua Hines
 Michael Hofmeister
 Wesley Homenda
 Steven Horrell
 Jared Hurst
 Cory Hutson
 Pedro Infante Vives
 Casey Jarrell
 Henry Jeha
 Leigh Jester
 Hunter Jones
 Christopher Karmeris
 Jacob Kelley
 Christopher Kelley
 Lewis Kent Sanchez
 Cory Kessler
 Liaquat Khan
 Christian Kline
 Sebastian Kotarski
 Kenneth Krueger
 Esau Larios
 Fernando Lascano
 Daniel Lemus
 Karl Lewis Jr.
 Justin Lindquist
 Michael List
 Matthew Lloyd
 Stevie Lockhart
 Trevor Lombardi
 Robert Long
 Kelsey Lucas
 Kyle Lynch
 Scott Manfre
 Chad Maraj
 Arthur Mariano
 McKenzie Marshall
 Matthew Martin

Renzo Martinat
 Jean Paul Martucci Sena
 Lisa Mayes
 Richard McDonald
 Robert McGonigal
 Blake McKinney
 Thomas Meagher
 Aldo Melgarejo
 William Meredith, Jr.
 Kent Mertilien
 Joshua Michalski
 Meghan Miller
 Jacob Mirabella
 Alfredo Montano
 Randall Moore
 Davion Mori
 Ameer Mufleh
 Patrick Munyon
 Gary Muzzonigro, Jr.
 Carlos Nava
 Vaibhav Nayar
 Scott Neuner
 Jason Newton
 Samuel Newton
 Sean Northrup
 James O'Connell
 Emanuel Odies
 Juan Ortiz Horrach
 Angelica Osorio
 Sonia Ouellet
 James Palm
 Robin Palmer
 Stephen Pamas
 Jeffrey Papner
 Daniel Parent
 Riley Parks
 Jay Patel
 Khushboo Patel
 Joyce Pearson
 Ismael Perez
 Brett Phillips
 Joel Pierazek
 Eric Pineres
 Brian Pitman
 Bronoris Pye
 Anthony Quigley
 Rayford Rahming, II
 Brian Reece
 Marcus Rich
 Ryan Rider
 Andrew Ritter
 Matthew Robertson
 Branden Robins
 Kristopher Robinson
 Robert Rodgers
 Omar Rodriguez

Heonir Rodriguez
 Austin Romaine
 David Romero
 Jacob Rose
 Ivan Saavedra Pintor
 Scott Samuels
 Ivan Sanchez
 Daniel Sanders
 Felix Santiago
 Justin Schick
 Pedro Schnell Deltell
 Jordan Segal
 Ryan Selby
 Jae Shapiro
 David Sheets
 Donald Sheldon, Jr.
 Sanoj Shrestha
 Sean Siwiecki
 Joshua Slocumb
 John Smithman
 William Smithson
 Nicholas Souchon
 Thomas Speech
 Steven Squillacote, Jr.
 Michael Sriprashad
 Gabrielle Steinberg
 Christopher Suarez
 Deana Sweetwood
 Samantha Taningco
 Robert Tatum
 Arthur Tester
 Aaron Thomas
 William Thompson
 Douglas Thornton
 Jeremy Toms
 Joseph Troescher
 Deborah Truex
 Keith Twomey
 Zachary Ultican
 Eduardo Valdez
 Griffin Valentich
 Alexandre Veilleux
 Michael Vieira
 Trent Vogelgesang
 Ben Vonderharr
 Kurt Walcott, II
 Jack Waldron
 Adam Warga
 Amon Webb
 Christopher Welcome
 Cody West
 Alyssa Wharton
 Gregory Woyczynski
 Brian Wright

FBPE/FEMC Accomplishments

2013-2014

In support of FBPE's efforts to handle licensing engineers in the State of Florida and enforcing engineering licensing laws, FEMC accomplished the following during the July 1, 2013 - June 30, 2014, contract year. You can find more information about our contract requirements, accomplishments, quarterly and annual reports in the Corporate section of our website at www.fbpe.org.

Administered

42

Meetings of the FBPE and FBPE Committees

Distributed

34,200

Newsletters to licensees on average each quarter

Licensure Statistics

5,944

NEW APPLICATIONS RECEIVED FOR LICENSURE.

1,368

APPLICATIONS PROCESSED, APPROVED AND REGISTERED FOR THE FUNDAMENTALS OF ENGINEERING (FE) EXAM.

1,036

APPLICATIONS PROCESSED, APPROVED AND REGISTERED FOR THE PRINCIPLES & PRACTICE (PE) EXAM.

1,079

ENGINEER LICENSURE VERIFICATIONS ISSUED.

636

CERTIFICATES OF AUTHORIZATION ISSUED.

Legal Statistics

15 ADMINISTRATIVE COMPLAINTS FILED IN CASES WHERE THE PROBABLE CAUSE PANEL FOUND PROBABLE CAUSE TO BELIEVE A VIOLATION OF THE ENGINEERING PRACTICE ACT HAD OCCURRED.

14 FINAL ORDERS WERE ISSUED AGAINST PROFESSIONAL ENGINEERS.

30 CASES WERE DISMISSED WITH A FINDING OF "NO PROBABLE CAUSE."

17 CASES WERE DISMISSED WITH A "LETTER OF GUIDANCE."

1 LICENSURE SUSPENSION & LICENSURE RESTRICTION ORDERED.

2 VOLUNTARY RELINQUISHMENTS ISSUED & VOLUNTARY LICENSURE INACTIVATIONS.

7 PROBATIONS ORDERED.

Processed

113

complaints regarding engineering practices, of which **88** were found to be legally sufficient

Imposed

\$53,402.79

in Fines and Costs.

The **Structural Rules Committee** is a standing committee tasked with examining, considering and when required developing rules or modifying rules pertaining to the design of structures found within **Florida Administrative Code 61G15**. With the recent declaratory statements rendered by the Florida Building Commission, this committee is expected to examine these statements so as to determine any impact on our rules.

The **SE Licensure Committee** is a special purpose committee tasked with working with representatives from various engineering societies to facilitate the development of language that if passed by the legislature would create separate licensure for structural engineers in the State of Florida.

The **Authorized Representative Committee** is a special purpose committee tasked with working with representatives from various engineering societies to create a rule change further defining the requirements to becoming an authorized representative to a special inspector (threshold engineer) in the State of Florida.

Other FBPE committees that meet on an as-needed basis are the **Legislative Committee**, **Joint Engineer/Architecture Committee**, and the **Florida Building Code CEU Requirement Committee**. To find out more about these committees and how to submit concerns or potential agenda topics, send an email to board@fbpe.org.



No Mo' MoE (Master's or Equivalent) - An EAC/ABET B.S. Degree Will Suffice
(Continued from page 17)

quality of undergraduate education is ensured by the ABET process. An Oklahoma board member assured everyone that they wish for NCEES to proceed with looking at alternatives in educational requirements. Supporters of the Vermont motion plead for more time to review the issue, rather than just removing MLE 2020 altogether. Philosophical debate ensued over what Model Law means. Is it to identify *minimal competency*? Or does Model Law reflect *best practices*? Should a board favor a proposed Model Law item, even if it never intends to pass it in its jurisdiction? Or is Model Law a higher ideal that we *hope for*, so that the organization is at the forefront of maintaining high standards for licensure and the profession?

Included in Oklahoma's motion was a request for NCEES president to charge a committee or task force to draft a *position statement* that reflects the education standards defined in MLE 2020 and MLSE 2020. Another piece of the motion was to continue discussions with ABET, ASEE, and other parties with the goal of improving education standards to better prepare engineers to enter the professional practice of engineering.






One impediment will be that licensing board members and NCEES committee members come and go every year. The institutional knowledge - the reasons for the status quo and for proposed changes - gets lost. Hopefully, those who were involved in creating and passing MLE 2020 will stay passionate, remain involved, and help current and future members to keep fresh the fundamental reasons behind it. This may require compromise or a fresh approach - especially if we want to be in harmony with this generation of rising engineers.

With a 143-hour undergraduate degree, graduate degrees, a few years of design experience, and my current position in academia, I can sympathize with many sides of the debate. I'll refrain from giving my personal opinion on the issue, but I do hope that incoming and future NCEES presidents will charge committees to work on addressing the concerns being voiced by many. Dialogue should continue within - *and among* - all constituents: NCEES as the profession's licensing authority, practitioners, engineering organizations, societies, ABET, faculty, and students. The debate isn't over. But for now, an EAC/ABET degree will suffice to meet the educational requirement for licensure, and students are free to choose whether or not to continue their formal education beyond a bachelor's degree, unbound from the perceived mandate to do so.

You can find more information about this topic on NCEES' website at www.ncees.org. If you have any questions or concerns about this article or require further clarification on education requirements please feel free to contact the Board office at board@fbpe.org.

Connect with NCEES through Social Media

NCEES has numerous ways for you to stay in communication with their organization regarding their latest news and activities. You can do this through their monthly publications, real-time news updates and social media. Here's how:

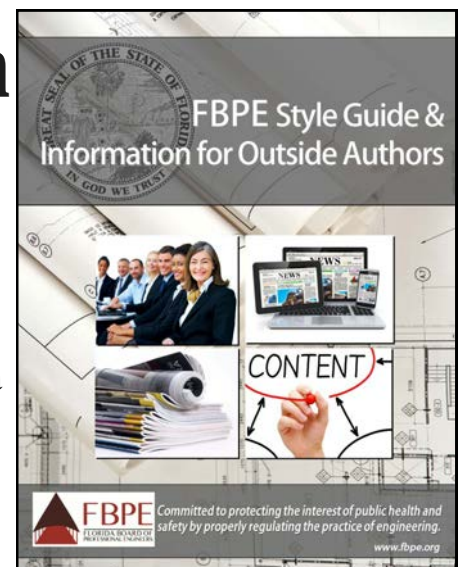
- **NCEES Licensure Exchange** - Get the latest edition of NCEES' official publication for the exchange of information, opinions, and ideas regarding the licensure of engineers and surveyors by downloading their most recent issue of *Licensure Exchange* or access archived issues at <http://ncees.org/about-ncees/ncees-licensure-exchange/>. 
- **NCEES News** - NCEES posts their most current news and press releases on their website which can be accessed from their Home page at <http://www.ncees.org> or go straight to their News section at <http://ncees.org/about-ncees/ncees-news/all-news/> for announcements and to access archived articles.
- **Facebook** - NCEES' Facebook is filled with plenty of industry-related content, the organization's history and photo albums of recent events. By liking them on Facebook you will be able to stay on top of current national issues affecting engineering and surveying licensure. Their Facebook page can be found at facebook.com/NCEES. 
- **YouTube** - Access NCEES' media channel on YouTube where videos related to some of the most frequently asked questions regarding the exam processes, the value of professional licensure, as well as past webinars. Go to youtube.com/NCEESMedia today. 
- **LinkedIn** - You can join NCEES' LinkedIn groups ([Professionally Licensed Engineering Community](http://www.linkedin.com/company/ncees) or their [Professionally Licensed Surveying Community](http://www.linkedin.com/company/ncees)) to connect with other professionally licensed peers. You can also broadcast your association with NCEES by following their main organization page located at www.linkedin.com/company/ncees. 
- **Twitter** - By joining NCEES on their Twitter site you can quickly scan headlines and follow their activities in real-time. You can also re-tweet NCEES and share important facts and answers to their most common questions with your friends and colleagues. Join NCEES' Twitter page at twitter.com/NCEES. 

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

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 does accept articles from recognized professional organizations and academic institutions wishing to disseminate industry related information.

If you are interested in submitting an article for consideration or to obtain a copy of the FBPE's *Style Guide and Information for Outside Authors* please visit FBPE's website at www.fbpe.org. If you are interested in reprinting information published in one of our publications, please contact FBPE's Public Information Officer, **Shannon McCoy** smccoy@fbpe.org.



FBPE Starts Schedule for Student Presentations

The Fall season brings much more than just great weather, football and the anticipation of the holidays; it is the start of a new college semester for thousands of students seeking to get their engineering degree. FBPE has made great strides in establishing relationships with Florida's engineering schools by getting involved with career fairs and expos, volunteering in engineering-related association meetings and events, and conducting presentations to students with one goal in mind - how to take your engineering degree to the next level and achieve professional licensure in the State of Florida.



As we progress into the month of October, members of FBPE/FEMC staff have already participated in FAMU/FSU's *2014 Fall Engineering Day*, and conducted two presentations at the Florida Engineering Society's Big Bend Chapter monthly meeting and at the Panama City Branch of FSU. Several more school visits/ presentations are scheduled throughout the month to include Valencia College, Embry-Riddle Aeronautical University, University of Florida, and University of South Florida.

Since audiences for our presentations can range from freshman students taking an introductory course in engineering to pre-senior design classes, we customize each presentation to the participants, ensuring we are providing the most relevant information for them at the time.

Some of the topics we include in our presentations are:

- An introduction to the Florida Board of Professional Engineers (FBPE) and Florida Engineers;
- Management Corporation (FEMC) and their responsibilities;
- An overview of the FE exam application process and any new changes to include the recent change to direct registration with NCEES;
- A detailed description of the FE exam transition to Computer-Based Testing (CBT) and what the candidate can expect with the new process;
- What testing preparation resources are available to examinees;
- The importance of obtaining professional licensure; and
- The value of joining industry-related societies and associations.

If you are an engineering educator within one of Florida's engineering schools or lead a local association chapter and feel that students or your members would benefit from members of FBPE conducting a presentation, please contact FBPE's Public Information Officer, *Shannon McCoy*, at (850) 521-0500 or at smccoy@fbpe.org.

The American Society of Civil Engineers (ASCE) at FAU hosted the 2014 ASCE at FAU Concrete Expo and Fair April 2, 2014, on the FAU Boca Raton campus. The event brought together more than 300 engineers, architects, construction professionals, faculty and students to learn more about technical engineering innovations.

ASCE-FAU Hosts 2014 Concrete Expo & Fair

The agenda for the day's event included technical sessions/presentations, a panel discussion and a keynote speaker. The technical portion of the day included the following presentations:



- Session one - “**Concrete Materials and Properties**” - presented by **Diep T. Tu, PE**, Florida Concrete and Products Association, Director of Engineering;
- Session two - “**Chemical and Mineral Admixtures**” - presented by **Frank Suarez, MBA**, Member of the Florida Pre-stressed Concrete Association Education Committee;
- Session three - “**Designing Slabs on Ground**” was presented by **Rafael E. Jimenez, PE**, CEMEX, Pavement Engineer; and
- Session four - “**High Performance Concrete**” - presented by **Joseph Lord**, Florida Pre-stressed Concrete Association, Executive Director.

The keynote speech titled “*Before, During and After an Interview*” was presented by **Debora Rivera**, Florida Department of Transportation District VI, Director of Operations, and the panel discussion featured the four technical session speakers (mentioned above) and focused on engineering concrete requirements.

Participants were able to obtain up to four continuing education credits - Professional Development Hours (PDHs), Continuing Education Units (CEUs) and Learning Units (LUs) by attending this event. FAU's Department of Civil, Environmental and Geomatics Engineering students showcased their concrete canoe and the concrete bowling ball that won first place in the 2014 Concrete Bowling Ball Competition sponsored by the Florida Concrete and Products Association.

If you would like more information about ASCE at FAU please visit their website at www.asce.fau.edu.

Acknowledgments

The information and photos used in this article were reprinted with permission from the FAU's College of Engineering & Computer Science - Civil, Environmental & Geomatics Engineering Department. The content and photos cannot be reused from this publication without express written consent from FAU's College of Engineering. If you have any questions contact **Digna Mejia**, Academic & Support Services Coordinator at dmejia1@fau.edu.

About Florida Atlantic University

Florida Atlantic University, established in 1961, officially opened its doors in 1964 as the fifth public university in Florida. Today, the University serves more than 30,000 undergraduate and graduate students at sites throughout its six-county service region in southeast Florida. FAU's world-class teaching and research faculty serves students through 10 colleges: the Dorothy F. Schmidt College of Arts and Letters, the College of Business, the College for Design and Social Inquiry, the College of Education, the College of Engineering and Computer Science, the Graduate College, the Harriet L. Wilkes Honors College, the Charles E. Schmidt College of Medicine, the Christine E. Lynn College of Nursing and the Charles E. Schmidt College of Science. FAU is ranked as a High Research Activity institution by the Carnegie Foundation for the Advancement of Teaching. The University places special focus on the rapid development of three signature themes – marine and coastal issues, biotechnology and contemporary societal challenges – which provide opportunities for faculty and students to build upon FAU's existing strengths in research and scholarship. For more information, visit www.fau.edu.



Photo left to right: **Yan Yong, PhD**, FAU Department of Civil, Environmental and Geomatics Engineering, Interim Chair; **Diep T. Tu, PE**, Florida Concrete and Products Association, Director of Engineering; **Howard Schnellenberger**, FAU Ambassador at Large and FAU Football's Founding Coach; **Jorge Armenteros**, Vice President, Lehigh Cement Company; **Troy Maschmeyer**, President and CE, Maschmeyer Concrete Company of Florida.



FES/FICE

98TH ANNUAL CONFERENCE & EXPO



Photo Credits: Copeland Productions

FES/FICE held its annual summer conference and exposition August 6-9, 2014, in Marco Island, Florida at the Marco Island Marriot Beach Resort, Golf Club & Spa. With over 315 people in attendance, the conference proved to be another great success.

This year's theme was "Engineers Lead the Way" and provided attendees with opportunities to attend university receptions, professional development sessions, practice section meetings, vendor exhibits, recognition banquets and network with colleagues and industry professionals. In addition, the conference announced the Florida Engineering Leadership Institute's (FELI) recent graduates and held their Florida Engineering Society (FES) Board installation ceremony. A number of engineering professionals were recognized for their contributions over the last year to include awards given for *Engineer of the Year*, *Government Engineer of the Year*, *Outstanding Technical Achievement*, *Outstanding Student of the Year*, *Outstanding Service to a Student Chapter*, and many more.

To read more about this year's conference look for the October issue of the FES monthly *Journal* publication. You can view pictures from the event on FES/FICE's facebook page at www.facebook.com/FloridaEngineeringSociety or at <https://picasaweb.google.com/104287826070077656730/FESFICE98thAnnualSummerConference02>.

If you missed this year's conference, now is the time to "save the date" for next year. Mark your calendar today for **July 29, 2015 - August 1, 2015**, when FES/FICE's *99th Annual Conference and Expo* will be held in Fort Lauderdale, Florida, at the Harbor Beach Marriot.

To find out more information about how to become a FES member go to their website at <http://fleng.org/membership.cfm>. FES membership provides a number of benefits to the engineering professional such as continuing education, legislative representation, recognition from peers, opportunities to build careers and giving back to the community. For more information about next year's conference contact **Trevor Maddox**, FES Senior Meeting Planner at (850) 224-7121.

2nd Florida Automated Vehicles Summit 2014



Mark your calendar! The 2nd Annual Florida Automated Vehicles Summit (FAVS) is scheduled for **December 15-16, 2014**, in Orlando, Florida at the Disney Coronado Springs Resort. This year's event will include discussions and a presentation on the Florida Department of Transportation (FDOT)'s efforts within the automated vehicles industry. The following day, participants will move offsite to enjoy demonstrations of autonomous and connected vehicles. Registration for this event is currently open, so for those interested got to <http://www.automatedfl.com/event/2014summit/> to register today!

This is the 2nd annual event that the FDOT has organized to help advance the framework for implementation of automated vehicles on Florida's roads. The FDOT will be presenting guests with the opportunity to join global and industry leaders in vehicle automation and to learn more about how Florida is leading the way with research, technology and workgroups.

Among the FDOT's focuses for 2014 are the advancement of the automobile, the advantages of planning for vehicle automation, and Florida's initiatives in this developing technology. FDOT's mission in hosting the *2nd Annual Florida Automated Vehicles Summit* event is to lead the way and raise awareness for the integration of automated vehicles into existing traffic operations. Their goal is to lead by example with pilot research projects, and ensure that Florida is ready for these exciting new technologies.



Florida Automated Vehicles
Creating the Framework for Implementation

Anyone who is interested in learning about the state of the industry and what Florida is doing to prepare for this innovative technology should attend! You can follow current efforts and activities on their Facebook at www.facebook.com/automatedfl or visit their website at www.automatedfl.com.

LOOK WHO'S GONE MOBILE!

Staying in touch with the *Florida Board of Professional Engineers* just got easier.



FBPE is pleased to announce the official launch of its new mobile app.



Our free app is now available for download on iTunes® and GooglePlay™.



Search for "FBPE" in the AppStoreSM, GooglePlayTM Store or just scan the QR Code to get started today!



Connect with the FBPE's latest engineering news and activities anytime...anywhere.

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- Download Applications, Reports & Publications
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- Submit & Share Photos
- Receive Alerts & Notifications
- Share Information with Tell-A-Friend
- Use Points of Interest to Locate Colleges, Testing Centers & Meetings

What's Up With QR Codes?

Ever wonder what those little black and white squares are you see on brochures and T-shirts, in magazines and even our newsletter? You see them everywhere, but what are QR codes exactly?

A "QR code," abbreviated for *Quick Response Code* is the trademark for a type of matrix barcode (or two-dimensional barcode). The barcode is a machine readable optical label that contains information about the "item" that is embedded. A QR code uses four standardized encoding modes (numeric, alphanumeric, byte/binary, and kanji) to efficiently store data.

The QR Code system has become very popular among organizations and industries due to its fast readability and greater storage capacity compared to standard UPC Barcodes. These codes can be used for a multitude of purposes and applications including product tracking, item identification, time tracking, document management, general marketing, and much more.

A QR code consists of black modules (square dots) arranged in a square grid on a white background, which can be read by an imaging device (such as a camera) and processed using Reed-Solomon error correction until the image can be appropriately interpreted. The required data is then extracted from patterns present in both horizontal and vertical components of the image.

There are many free downloadable QR code scanners available for phones and other mobile devices on iTunes® and GooglePlay™ so download one today and start scanning!





2014-2015

Florida Board of Professional Engineers

The Florida Legislature found that it was necessary, in the interest of public health and safety, to regulate the practice of engineering in the State of Florida and thus created *Chapter 471, Florida Statutes*, the Engineering Registration Law. Under this law, the Florida Board of Professional Engineers is responsible for reviewing applications, administering examinations, licensing qualified applicants, and regulating the practice of engineering throughout the state. The Board is comprised of 11 members, nine of whom are licensed professional engineers representing multiple disciplines and two laypersons who are not and never have been engineers or members of any closely related profession or occupation. All members are appointed by the Governor for terms of four years each.

2639 N. Monroe Street
Suite B-112
Tallahassee, Florida 32303
(850) 521-0500

www.fbpe.org



“Committed to protecting the interest of public health and safety by properly regulating the practice of engineering.”



- | | |
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| <i>John Pepper, PE</i> | <i>Kenneth S. Todd, Jr., PE</i> |
| <i>VACANT</i> | <i>Zana Raybon</i> - Executive Director |

Florida Engineers Management Corporation

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

- | | |
|-----------------------------------|--|
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| <i>VACANT</i> | <i>John J. Rimes, III, Esq.</i> |
| FEMC Treasurer/Secretary | FEMC Vice President |

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Customer Service Representative
(Receptionist & Scanning Technician)
- Alan Levin*
Technology Assistant
(Wall Certificates & License Printing)
- Shannon McCoy*
Public Information Officer
(Website, Communications, & Collegiate Outreach)

- Kathy Coleman*
Licensure Analyst
(NCEES Endorsement & CA Applications)
- Brendan Henricks*
Licensure Analyst
(FE Exam Applications & Endorsement)
- Lisa Simmons*
Licensure Analyst
(PE Exam & Re-Take Applications)
- Nancy Wilkins*
Licensure Analyst
(Continuing Education, Special Inspector Applications;
Active/Inactive Status Changes)
- Rebecca Valentine*
Licensure Analyst
(Endorsement Applications)

- John J. Rimes, III, Esq.*
Chief Prosecuting Attorney & FEMC Vice-President
- Wendy Anderson*
Investigator
(Complaints, Investigations, Public Records Requests)
- Trishia Finkey*
Paralegal
(FEMC Administrative Complaints, Hearings, PCP, Final Orders)
- Amanda Day-Janacek*
Accounting & Finance
(Accounting & Application Payment Processing)
- Kendra Williams*
Customer Service Representative
(Scanning Technician & Licensure Verifications)