



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

Connection

Volume 3 - Issue 1

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

SPECIAL INSPECTOR QUALIFICATIONS

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

Florida Administrative Code **61G15-35.003(1)** titled: **Qualification Program for Special Inspectors of Threshold Buildings** reads in part that the minimum qualifying criteria for Special Inspectors of Threshold Buildings requires: 1) proof of current licensure in good standing as a licensed professional engineer in the State of Florida; and 2) the applicant's principal practice is structural engineering with experience performing structural field inspections on Threshold Buildings or that the applicant's principal practice is performing structural field inspections on Threshold Buildings.



Often the question arises,

“Does the performance of Building Condition Assessments or Structural Condition Assessments conducted on existing Threshold Buildings qualify an individual to become a Special Inspector?”

The answer is: while Building Condition Assessments and Structural Condition Assessments may constitute a structural field inspection, they **DO NOT** count as experience toward becoming a Special Inspector. The reason that they don't count as experience toward becoming a Special Inspector is that they are not normally performed in conjunction with construction and they are not normally performed in accordance with a Threshold Inspection plan.

Within Florida Statute **553.79**, the statute that creates and empowers Special Inspectors of Threshold Buildings, **553.79(5)** requires in part that special inspectors perform structural inspections pursuant to a structural inspection plan that was submitted to and approved by the enforcing agency before the issuance of a building permit for construction. In addition, Florida Statute **553.79(7)** states in part that the special inspector is to file a signed and sealed statement with the enforcement agency verifying that the construction of all structural load-bearing components within the threshold inspection plan comply with the permitted documents.

Therefore, the performance of Building Condition Assessments or Structural Condition Assessments that are not performed pursuant to a structural inspection plan approved by the enforcing agency in conjunction with construction **DO NOT** serve to qualify an individual under **61G15-35.003(1)**.

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

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



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FROM THE EXECUTIVE DIRECTOR

Possible Effects of 2014 Legislation on Professional Engineers

As of the publication of this issue of our newsletter, there is legislation – House Bill 713 – passed on April 24, 2014 as part of the 2014 Legislative Session, that is awaiting Governor Scott's consideration. This bill has the potential to greatly affect licensed engineers in Florida when renewing their license in the future. As soon as HB 713 is presented to the Governor, which should be any day, the Governor has 15 days to approve, veto the Bill or take no action. If no action is taken the Bill automatically becomes law. The Bill revises the appointment of Board members, continuing education requirements, the retaking of the Fundamental (FE) and Principles and Practice (PE) examinations, and exemptions to taking the Fundamentals Examination. The following is a summary of the proposed Bill.

Board Appointments

Currently, the Governor appoints members of the Board of Professional Engineering (Board) to four year terms without the input of professional or technical societies. The Bill provides that professional and technical engineering societies may now submit a list of recommended qualified nominees for appointment even though the Governor is not required to select a nominee from the list. Additionally, the composition of the nine (9) licensed professional engineers that comprise the Board will be changed to require that the Board will always be comprised of PEs with civil, structural, electrical or electronic, mechanical and education expertise and that the Board member terms will be staggered after July 1, 2014 to assure continuity of service on the Board.

Continuing Education

Licensed professional engineers are currently required to obtain eight (8) continuing education (CE) course hours every two years in order to renew their licenses. Of the eight hours, four hours are required to be on the laws and rules of professional engineers. Effective March 1, 2015, HB713 requires a total of 18 continuing education course hours in order for licensed professional engineers to renew their licenses. Of the 18 hours, one must be related to the laws and rules of professional engineers, one must relate to professional ethics, and four must relate to the licensee's area of practice. The remaining hours may correlate to any topic pertinent to the practice of engineering. Four hours of the continuing education course hours may be obtained by being an officer for a Board-recognized professional or technical engineering society. The required hours relating to law, rules and ethics may also be earned by a PE serving as a member of the Legislature or as an elected state or local official. Since the portion of the Bill relating to CE requirements does not take effect until March 1, 2015, the new CE requirements will not apply until the 2015-2017 biennial renewal.

Retaking of the FE or PE Examination

Furthermore, applicants for licensure as a professional engineer who have failed one of the licensure examinations three times are currently required to obtain 12 college course hours in order to retake the examination. The Bill permits these applicants to take a Board-approved examination review course prior to retaking the examination. Additionally, the Bill provides that those applicants who are delayed in taking an examination due to reserve or active duty service in the United States Armed Forces or National Guard are allowed two additional attempts to take the examination before being required to obtain additional college course hours or examination review course credit.

Exemptions to Taking the Fundamentals Exam

And finally, current law provides an exemption for PE licensure applicants to forego taking the fundamentals examination if the applicant holds an accredited doctorate in engineering or holds a doctorate in engineering and has at least three years of qualified teaching experience. HB713 deletes both of these provisions related to applicants who hold doctorates in engineering.

Should Governor Scott sign HB713, or should it become law in the absence of his approval, the Bill would revise certain portions of Chapter 471, Florida Statutes, and would go into effect on July 1, 2014. We will continue to monitor the progress of the Bill and report back to all licensed professional engineers in the near future.

To read the bill and all activity related to the proposed legislation change in its entirety, go to the Florida House of Representatives website at <http://www.myfloridahouse.gov/Sections/Bills/billsdetail.aspx?BillId=51807>. You can also view the current statutes and rules related to the practice of engineering on our website at <http://www.fbpe.org/legal/statutes-and-rules>.

If you have any questions or concerns related to this proposed legislation or the current engineering laws and rules, feel free to email the Board at board@fbpe.org.

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FBPE Executive Director

FEMC President



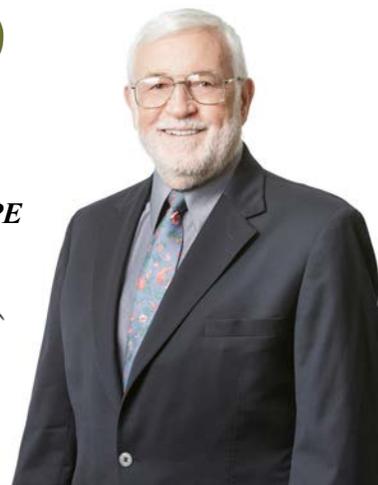
CHAIRMAN'S CORNER

ENGINEERS AS SCIENTISTS

Each licensed professional engineer has an undergraduate degree as a Bachelor of Science. Note it is a Bachelor of Science degree in a specific engineering discipline. Therefore, each professional engineer is not only an engineer, but is also a scientist.

Warren G. Hahn, PE
FBPE Chair

Warren G. Hahn



Engineers are more than scientists, in that engineers don't just analyze and calculate. They go one step further to design and build "stuff." They make "stuff" work. They make "stuff" safe. Engineers provide for the health, safety and welfare of the general public.

If the general public were to view small villages, towns, medium-sized cities, or a megalopolis from a drone surveillance camera system, they would not only realize the importance of engineers in the design, fabrication and manufacture of drone camera systems, but the importance of engineers in virtually every road, park, building, structure, bridge and all of the components hidden therein, where "stuff" is designed and contrived by professional engineers in the interest of the health, safety and welfare of the general public.

Who could be better scientists than engineers? Engineers, by the very nature of the discipline in which we work, analyze theories and propositions based on facts! After this, engineers have to make the "stuff" that they engineer and design operate properly and efficiently.

Engineers work with facts. Their computerized models, whether they be for an energy savings evaluation of a building automation system, a type of girder used in the construction of a river crossing bridge, the electrical fault calculation of switch gear protecting a power system or the capability of a fire protection system to douse a fire within a warehouse or office, are all based upon facts, not suppositions. As such, isn't it the professional engineer's responsibility to "weigh-in" on the scientific facts that might affect the health, safety and welfare of the general public?

One of the areas where professional engineers may have this responsibility is to "weigh-in" on the scientific facts concerning climate change.

Let's look at some facts versus previous assumptions of computerized climate change models. **GRAPH 1** depicts 73 different climate change models based upon various assumptions starting in 1979, progressing through 2025. The thick

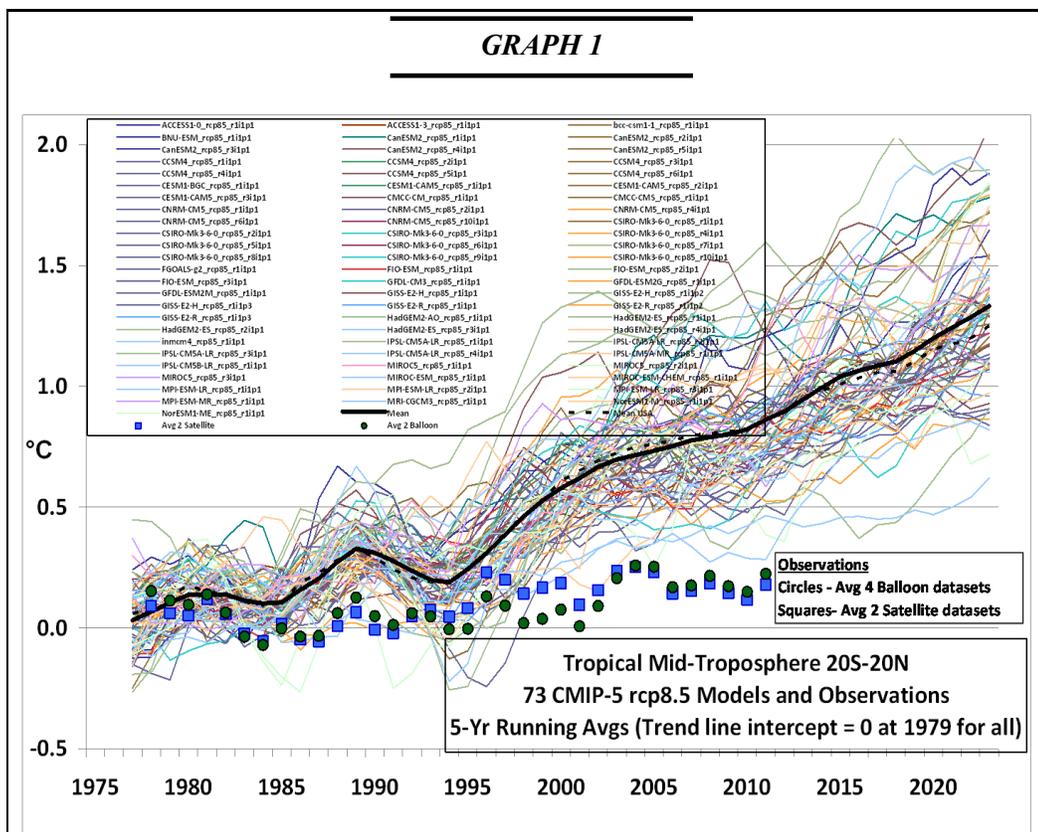


Image Source: Christy, John, R, Distinguished Professor, Department of Atmospheric Science, Director Earth System Science Center, The University of Alabama in Huntsville. Tropical Mid-Troposphere 20S-20N (Graph). Retrieved from <http://www.climatedialogue.org/the-missing-tropical-hot-spot/>.

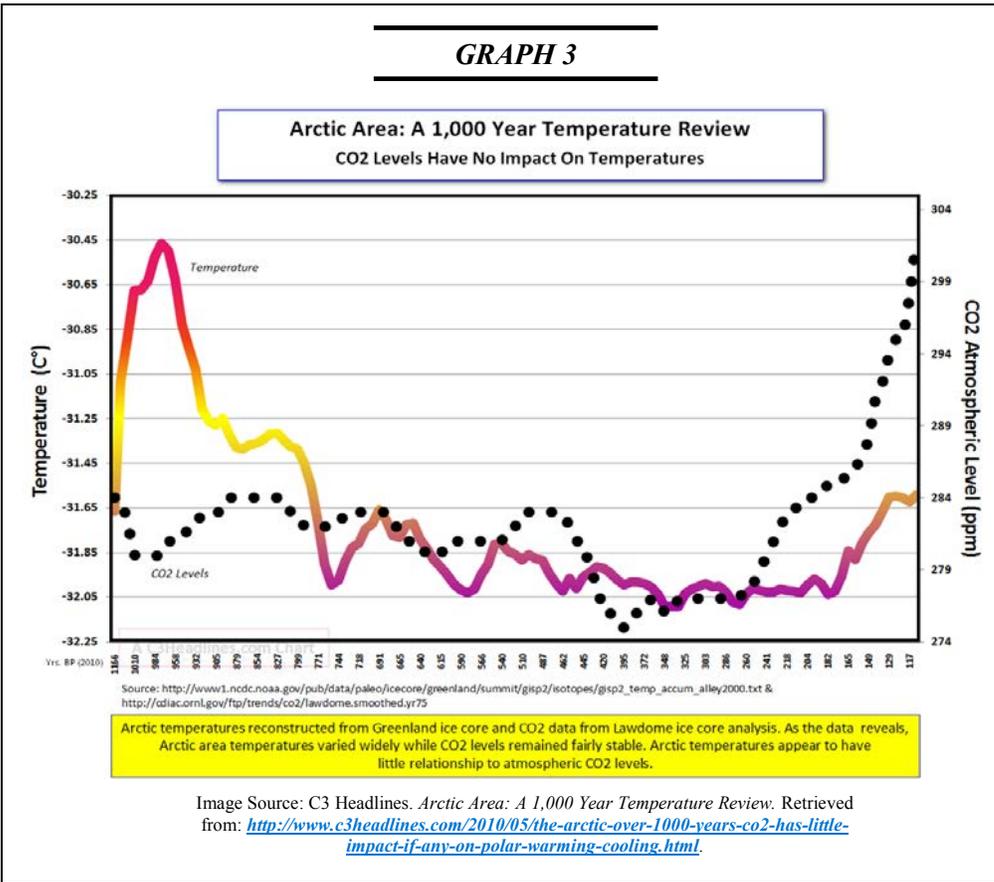
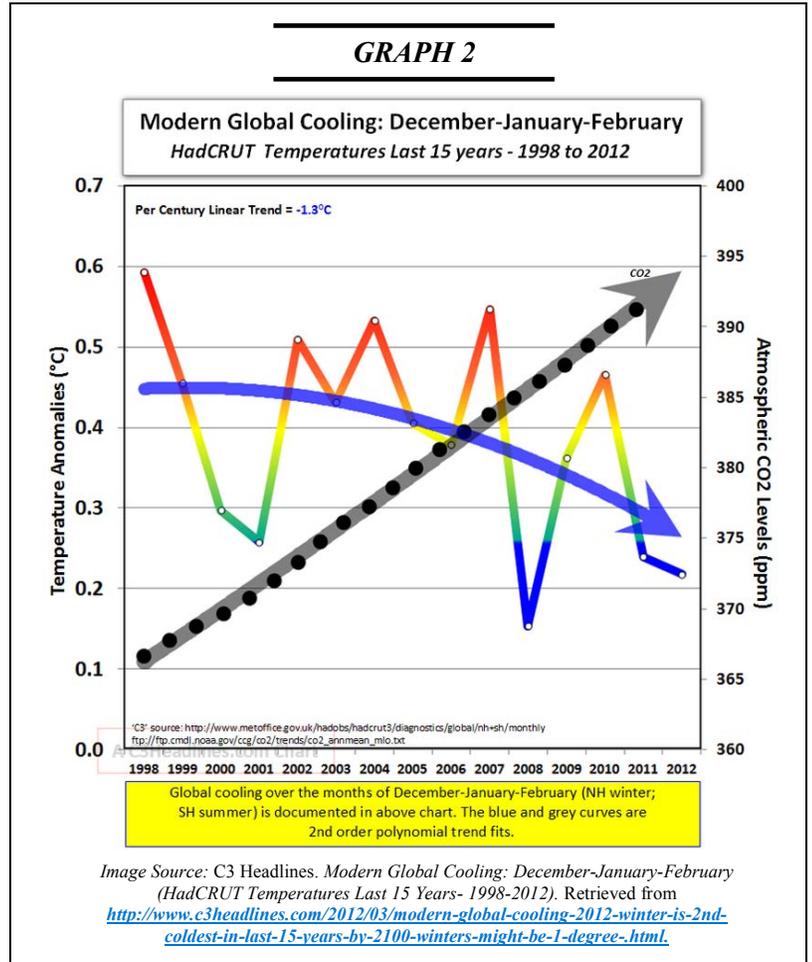
black line represents the average projection of the 73 models. Note that virtually every model is running much warmer than the actual temperatures recorded (blue and green circles & squares) through 2012. Many of the predicted temperature models had the temperature rising 1.5°C by 2012! The measured Mid-Troposphere 5-year running temperature has increased approximately 2/10 of 1° C from 1979 through 2012.

GRAPH 2 illustrates the temperatures recorded during the months of December, January and February over a 15-year period with the blue and gray arrows showing that the second order polynomial trend compared with the carbon dioxide concentration rising, yet with winter temperatures dropping.

And **GRAPH 3** shows arctic temperatures from a Greenland ice core with the temperatures having virtually no relationship to the content of CO² measured in the ice core.

Other assumptions projected that from 1979 through the present sea water levels would rise. However, one of our own FBPE members has researched the Atlantic Ocean water levels in his county and found that there was a very slight increase annually between 1979 through the present.

It would seem that the assumptions for the climate models and predictions used in these three instances were just that, "assumptions," and not necessarily based on facts. However, it cannot be denied that one of the graphs indicate a slight temperature rise of 2/10 of 1°C. This may cause concern that the CO² developed from fossil fuel plants might be the cause.



This is all the more reason that engineers as scientists should look at the facts and make decisions and recommendations as scientists as to what future steps, if any, we as engineers would recommend to our society.

For instance, photovoltaic, solar, wind, tide movement and similar energy sources, once constructed, provide "free" energy and certainly would seem to be a reasonable approach for our future energy use. However, if the above systems cost two to four times more than fossil fuel or nuclear energy plants in terms of megawatts produced and/or cost per kilowatt hour, and it is determined by the scientific method that engineers employ that CO² in the atmosphere really has no effect on climate, then the rush to build such costly plants may not be the answer. Rather, the slight temperature rise recorded of 0.2°C over the past 33 years may just be a natural periodic occurrence caused by sun activity.

Certainly the prospect of keeping our atmosphere as clean as possible, with sun, wind, and tide energy plants are amiable goals. But, if with reasonable certainty this can be achieved through nuclear, coal, natural gas and/or oil energy plants, at a lower megawatt construction cost and lower KWH cost, wouldn't this be the best course?

As indicated in the Chairman's Corner article in the March 2014 edition of FBPE's *Connection* newsletter, world energy demand will increase and double by 2050. If we are to provide this energy by mostly sun, wind and tide energy plants at double or more the cost of nuclear, coal, gas, and oil (and CO² is not considered a pollutant) isn't it to the betterment for the welfare of the public to provide this energy in the least costly manner? At the same time, the fossil fuel energy plants must operate with the cleanest air possible. This then, would be the best possible solution.

On the other hand, if CO² is proven to contribute to climate change, then perhaps wind, sun and tide energy plants are our best recourse. Still, we must recognize the fact that these are much slower in development, most likely much more costly and are less likely able to satisfy the energy demands of less developed countries.

In either case, professional engineers (who are the most proficient in providing for the health, safety and welfare of the public) should also then accept the burden of examining climate change facts and then come to a scientific engineering conclusion based upon these facts.

Engineers as scientists can accomplish a climate change analysis better than any other profession.

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

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

FBPE Disclaimer

The views and opinions expressed in this article are those of the contributing writer and do not necessarily reflect the official policy, official position, views or opinions of the Florida Board of Professional Engineers.

Mark Your Calendar!

June 2014

- 7-12** 62nd Annual BOAF Conference
- 11-12** FEMC & FBPE Board Meetings

July 2014

- 4** FBPE Offices Closed-Independence Day
- 11** FEMC Board Ops Conference Call
- 15** Application Review & PCP Meeting
- 16** Rules Committee Meeting
- 25** Ratification Conference Call

August 2014

- 6-7** FBPE Board Meeting
- 6-9** FES/FICE 98th Annual Summer Conference & Expo
- 20-23** NCEES Annual Meeting
- 26** FEMC Board Conference Call

September 2014

- 1** FBPE Offices Closed-Labor Day
- 5** FEMC Board Ops Conference Call
- 16** Application Review & PCP Meeting
- 16** FAMU/FSU Fall 2014 Engineering Day
- 26** Ratification Conference Call

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

Bright Minds = Bright Futures

2014 STEM Tech Olympiad Takes Over Miami

Submitted by: Nola Garcia

The sun was not the only thing shining in South Beach the week of May 2 - 6, 2014. Poised to become one of the top ten Tech Hubs in the world, South Florida hosted over 8,000 people in the Miami Beach Convention Center at the eMerge Conference of the Americas and the 2014 STEM TECH Olympiad.



The 2nd STEM TECH Olympiad comprised of 14 different STEM (science, technology, engineering and math) related events allows elementary through college students from all over the U.S. and Puerto Rico, Brazil, Canada, Mexico and the United Kingdom to showcase and compete their latest technological creations. This multi-day event creates the perfect setting for hundreds of kids, parents, and teachers to participate in challenges, competitions and interactive exhibits paving the way for future engineers and programmers.

Nola Garcia, FBPE Board member and founder of USATL (United States Alliance for Technological Literacy) states, “The United States has an incredible resource in our young people, they have so much potential! As technology evolves and changes it is important to make sure that the future leaders of our country have the necessary tools to grow and innovate as they keep the U.S. the world leader in engineering and technology. There was no place for students and teachers to showcase a multitude of STEM projects. There are wonderful individual programs that inspire and excite our young people, but there needed to be a central location where we, as a nation, could celebrate and support the amazing things these students have accomplished. That was the impetus for the creation of USATL.”

As technology changes, the STEM TECH Olympiad will include new innovations in the event; however, this year students “wowed” visitors with their creative and innovative solutions to those challenges they were presented with. Elementary students showcased their *Technology in Art* with a display of works from several Miami-Dade Schools and high school students added their technological art in the form of robotic masks and robotic arms.

Students from several high schools competed with their assistive devices for people confined to wheelchairs. This year was Phase 1 and their designs and prototypes ranged from lap trays molded to the person’s specific articles like wallets and cell phones, a side tray that could be moved around for the person’s convenience, a set of lights to alert pedestrians and motorists of the wheelchair’s approach in the dark and other inventive devices.

Robotics was a huge part of the STEM TECH Olympiad. VEX IQ, a robotics platform geared to the younger elementary and middle school students, proved to be very exciting as robots were programmed to move objects across the playing field. The ability to design, program and build robots at that age is encouraging as the students need a good comprehension of math and science to have a competitive robot. Older students had the opportunity to compete in a VEX competition, which is more rigorous and more interactive.

Students from middle school, high school and college competed with their battling robots, who were most likely the loudest audience engaging in the competitions. Robots from all different weight classes such as 150 grams, 1 lb., 3 lbs., 12 lbs., 15 lbs., 60 lbs., 120 lbs., and 220 lbs., flipped, rammed and spun the other robots across the arenas. Many colleges use the STEM TECH Olympiad as a place for their senior engineering students to develop and test their senior design projects. Students from the University of Cincinnati, University of South

Continued on page 11)

New Appointments to FBPE Announced by Governor Scott

On Friday, March 28, 2014, Governor Rick Scott announced one appointment and two reappointments to the Florida Board of Professional Engineers (FBPE). We would like to welcome our newest Board member, **Roland Dove, PE**, and also congratulate **Warren Hahn, PE** and **Michelle Rambo-Roddenberry, PhD, PE** on their second terms serving on the FBPE.

Roland Dove, PE of New Port Richey, Florida, is a licensed professional engineer in the state and has over 40 years of engineering experience. He currently serves as the Director of Engineering for Spring Engineering, Inc., a multi-disciplined architectural and engineering design firm located in Pasco County.

He received his Bachelor and Master of Science degrees in Civil Engineering from Purdue University and succeeds **Richard Wohlfarth, PE** filling one of three civil seats on the Board. He has been appointed for a term beginning March 28, 2014, and ending October 31, 2017. This is Mr. Dove's first term serving on the FBPE Board.

Warren G. Hahn, PE is a licensed professional engineer with Hahn Engineering, Inc. located in Tampa, Florida and has been reappointed for a term beginning March 28, 2014, and ending October 31, 2017.

He has over 50 years experience in engineering contracting and construction and 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 and also serves as an expert witness with forensic experience related to mechanical and electrical engineering.

He holds a Bachelor of Science degree in engineering from the United States Naval Academy and is currently serving his second term as Chairman on the FBPE Board.

Michelle Rambo-Roddenberry, PhD, PE of Tallahassee, Florida, is an Associate Professor with the FAMU/FSU College of Engineering and is a licensed professional engineer in the State of Florida. She has been reappointed to the education seat on the Board for a term beginning March 28, 2014, and ending October 31, 2017.

Dr. Roddenberry previously worked for seven years as a bridge engineer and at FAMU/FSU she has taught *Senior Design Project*, an engineering professional issues course, and structural engineering courses, including *Concrete Design*, *Bridge Engineering*, and *Prestressed Concrete*. Her research is primarily in concrete failure behavior and bridge engineering, particularly prestressed concrete bridges, analysis, in-field measurements and load rating. Based on her work with the *Senior Design Project* course, her department was the first grand prize winner of the NCEES *Engineering Award for Connecting Professional Practice with Education* for their collection of projects including an Everglades Restoration Project.

She received her Bachelor and Master of Science degrees in Civil Engineering from FSU and her PhD degree in Civil Engineering from Virginia Tech. Dr. Roddenberry is currently serving her second term on the FBPE Board.

For more information on the appointment process go to the Governor's website at <http://www.flgov.com/appointments>.



To view a full listing of the current FBPE and FEMC Board members go to www.fbpe.org and select *About FBPE* or *About FEMC*.



FBPE Member Gives Presentation to FIU Senior Engineering Students

On March 7, 2014, FBPE Board member Kenneth Todd, PE was a guest lecturer at Florida International University (FIU) in Miami, Florida. Mr. Todd gave a one hour lecture on Laws, Rules and Ethics to approximately 30 engineering students in their senior year taking an ethics course.

The lecture included material that provided the students with an understanding of the importance of becoming a licensed engineering professional in the State of Florida and what steps are required in preparation for taking the Fundamentals of Engineering (FE) exam, as well as the Principles and Practice (PE) exam. A brief discussion concerning the Florida laws and rules for practicing engineers provided the students with an understanding of the legal and technical requirements necessary to protect the general health, safety, and welfare of the public. During this portion of the lecture Mr. Todd stressed to the students, although their formal engineering education may be coming to a close, their education is really just beginning and will continue throughout their career.

(1) practicing engineering when not qualified, (2) failing to disclose a conflict of interest, (3) “plan stamping,” and (4) failure to use due care. The class was then provided some examples of these issues from actual cases reviewed and disciplined before the Board. By providing these case examples and discussions, FBPE's expectation is that students will learn that there are consequences for one's actions, especially as it relates to engineering laws, rules and ethics and that engineers are responsible for protecting the health, safety and welfare of the public.

As part of the discussion on ethics Mr. Todd discussed the *Engineer's Creed*. The discussion centered on professional conduct and how failing to adhere to it could lead to a violation of the laws and rules governing engineering practice, especially misconduct. Some examples of ethical violations discussed were:

FBPE staff and Board members have made a concerted effort in the last two years to visit state engineering campuses and classes to promote the engineering profession, explain changes to the examination process, and how to obtain professional licensure in Florida. If you are interested in having FBPE conduct a presentation or a question/answer discussion on the licensure process please contact FBPE's Public Information Officer, Shannon McCoy at smccoy@fbpe.org.

FSU Engineering Student Will Mechling Winner of \$5,000 Engineering Scholarship

The Florida Institute of Consulting Engineers/American Council of Engineering Companies of Florida (FICE/ACEC of Florida) announced Florida State University engineering student, **Will Mechling**, the winner of a \$5,000 scholarship. Since 2004, FICE/ACEC of Florida scholarships have honored Florida college students expressing interest and commitment to the business and management of the engineering profession. To qualify, a student must be a U.S. citizen pursuing a bachelor's or master's degree in an Accreditation Board for an Engineering and Technology (ABET) approved engineering program or in an accredited



land-surveying program. Recipients of the awards are evaluated for work experience, extracurricular and community activity, references, grade point average, and a written essay.

“I am always amazed by the determination and work ethic shown by today's engineering students,” said **Jim Thompson, PE, LEED AP**, 2014 FICE President. *“As a homeschooled student going away to college, Will had the maturity and the independence to succeed. He has a perfect 4.0 GPA, has worked at different engineering internships, which has diversified his experience, and has a history of volunteerism which will serve him now and in the future. Will is a great selection as winner of the FICE/ACEC of Florida scholarship.”*

Acknowledgement of Mr. Mechling as this year's scholarship winner will be made at the FES/FICE Annual Conference to be held in Marco Island, Florida, in August 2014. His application has also been forwarded to compete nationally in the 2014 ACEC scholarship program, along with two other applicants, **Patrick Miskel** from the University of Florida and **Anna Hayes** from the University of South Florida.

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Will Mechling is a junior at FSU studying civil engineering. His academic record thus far has been stellar, and he currently maintains a 4.0 GPA. In 2011, his senior year in high school, Mr. Mechling was the winner of a Florida Engineering Society (FES) scholarship. He is also a recipient of the Florida Bright Futures Scholarship and the Florida State University Freshman Scholarship. His involvement in engineering extends beyond his academic activities and he was recently elected as an officer to the American Society of Civil Engineers/Florida Engineering Society (ASCE/FES) student chapter at the FAMU/FSU College of Engineering. In addition, he currently holds an internship with Independent Green Technologies, a Tallahassee-based firm that provides solar installation, and he also works as a field technician on an as-needed project basis for his father's engineering firm, Mechling Engineering & Consulting Inc.

About FICE

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. They represent and promote 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), their goal is to show how doing business with other FICE firms supports better business practices in Florida.

Established in 1973, FICE promotes and maintains impeccable ethics and professional standards among consulting engineering firms in Florida. Their member firms and their professional engineers operate with the knowledge of our responsibility to the health, safety and welfare of the general public, in accordance with the National Society of Professional Engineers' Code of Ethics. To find out more about FICE and how to become a member go to their website at <https://www.fleng.org/fice/aboutfice.cfm>. You can also find more information about the different FICE awards and scholarships by going to <https://www.fleng.org/fice/ficeawards.cfm>.

About ACEC

The American Council of Engineering Companies' roots date back to 1909 when a small group of engineers in private practice established the American Institute of Consulting Engineers (AICE), the forerunner of ACEC. Today ACEC is a large federation of 51 state and regional councils representing the great breadth of America's engineering industry. Council members - numbering more than 5,000 firms representing more than 500,000 employees throughout the country - are engaged in a wide range of engineering works that propel the nation's economy, and enhance and safeguard America's quality of life. These works allow Americans to drink clean water, enjoy a healthy life, take advantage of new technologies, and travel safely and efficiently. The Council's mission is to contribute to America's prosperity and welfare by advancing the business interests of member firms. For more information about ACEC go to their website at <http://www.acec.org/home>.

(Information and image in this article were provided courtesy of the Florida Engineer Society.)

FES & FICE/ACEC of Florida Announces New Executive Director

On May 12, 2014, the Florida Engineering Society (FES) and Florida Institute of Consulting Engineers (FICE)/American Council of Engineering Companies (ACEC) of Florida announced **Allen Douglas** as their new Executive Director.



Mr. Douglas joins FES and FICE/ACEC with over 20 years of strategic management experience, of which 17 years was performing all facets of non-profit trade association operations including financial management, strategic planning, political operations, media relations, and event planning. His ability to interface and partner with industry stakeholders, governmental leaders, and engineering decision makers, including boards of directors, legislators, regulators, and FES/FICE members and staff will be instrumental in achieving the objectives important to the engineering profession and organization. He is committed to leading the society of professional engineers because he knows the importance of infrastructure development to Florida's communities, and how critical it is to the state's economic wellbeing.

During the past two and half years, Mr. Douglas has worked as the Department of Business and Professional Regulation (DBPR) Division of Alcoholic Beverages and Tobacco Director and was responsible for three bureaus (licensing, auditing, and law enforcement), 335 employees located in 12 offices, and a \$24 million operating budget. Prior to his position with the ABT division, he was with the National Federation of Independent Business and the Associated General Contractors. Mr. Douglas is a graduate from Florida Atlantic University (FAU) with a bachelor's in business administration with an emphasis in finance. He has served on the Economic Development Transition Team for Governor Rick Scott; as Organizer/Co-Director of Small Business Coalition - Rick Scott for Governor; Business Subcommittee Chairman; Census Complete Count Committee for Governor Charlie Crist; Chairman of Construction Coalition; and Chairman of Alternative Plan Review and Inspection Task Force.

Congratulations to Mr. Douglas on this prestigious appointment! For more information on FES and FICE/ACEC go to <http://www.fleng.org/index.cfm>.



About FES

The Florida Engineering Society (FES) is the statewide engineering society that represents engineers and licensed professional engineers (PEs) from all disciplines. Founded in 1916, FES strengthens the engineering profession by promoting engineering licensure and ethics, enhancing the image of the engineer, advocating and protecting PEs' legal rights at the state level, publishing news of the profession, and providing continuing education opportunities. FES serves over 3,200 members and the public through 19 chapters and six practice sections.

(Press release and image printed with permission by FES & FICE/ACEC.)

Florida, University of California, Purdue, University of Puerto Rico and other engineering schools love the opportunity to compete against each other to see who has the strongest and toughest robot.

At first glance the competition may look like an aggressive sport; however, if viewed and recognized as a way for students to build and test their ideas, it becomes a fascinating event, not to mention a real show stopper. **Alan Crockwell**, a robotics and engineering instructor at the all girls Catholic school, Carrollton School of the Sacred Heart in Miami, has been designing and building battling robots for almost 15 years. He says *“It is a way for the girls to take what they are learning in physics, math and science, use their research skills and add their own personal artistic flair to create a robot that is indestructible. We compare it to the crash test dummies you see on television. If you don’t know how things break, you can’t make things that are resistant to all kinds of forces.”* “Mr. C,” as the girls lovingly refer to him, had students competing in many different events at the STEM TECH Olympiad and through past guidance and mentoring, girls from Carrollton have graduated from top engineering schools like MIT, Duke, University of Michigan, University of Miami, Florida International University, Princeton and many more. *“Before we started competing in robotics we hardly ever had girls go on to major in engineering. Now if you ask our sophomores, juniors and seniors who have been working on robots and other engineering projects MOST of them want to pursue careers in engineering, medicine and other technologically related fields!”*

As mentioned before, competitions along with interactive exhibits were also available during the Olympiad events. Army Research Labs from University of Central Florida was on hand to give students and visitors an experience in simulation using the latest technologies created by the Army and the Department of Defense. The Museum of Science in Miami even gave students and visitors an opportunity to program Arduinos, an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software, to create musical devices with kits they were provided.

Walking through the two different halls at the Miami Beach Convention Center and hearing the delighted cheers of amazement and applause from the attendees and visitors, you might not have believed that there was a STEM event happening: as one of the students was heard describing the Olympiad as celebrating the “coolest and the best.” The future of our country looks bright as we see the level of innovation and tenacity of our students. Their dedication to developing their innate talents and skills is reassuring as America works to keep our place as a world leader in solving the challenges that face us as human beings.

Planning for the 2015 STEM TECH Olympiad has already begun and you can stay tuned for more information about next year's event by going to USATL's website at <http://www.usatl.org/index.php/events> or eMergeAmericas by going to <http://emergeamericas.org/>.

About USATL

USATL was founded in 2011 and is dedicated to the advancement of technological literacy in the United States by working with corporate America and academic America. USATL believes that collaborating these two entities and providing opportunities for K-16 students that immerse them in hands-on STEM activities will continue to provide the United States with a technologically literate workforce. For more information about USATL go to their website at <http://www.usatl.org/>.



Carrollton School of the Sacred Heart in Miami "Open Class" 3rd Place Winners - (pictured from left to right - standing) Cecilia de Armas, Elena del Barrio Coca, Lourdes Magolnick, Manuela Guyot, (sitting) Sabrina Tamames.

(Image used with permission from Carrollton School of the Sacred Heart in Miami)



This article was submitted by FBPE Board member Nola Garcia. Nola Garcia, was first appointed to the Florida Board of Professional Engineers in 2006 and is currently serving her second term filling one of two public seats. Ms. Garcia previously worked at the Florida International University College of Engineering where she left to start up BattleBots IQ, the first robotics program that included teacher training, curriculum and competitions for middle school, high school and post secondary schools. She also serves as the Founder and President of StarBot Inc, a not-for-profit robotics education center that serves the South Florida community of both public and private schools. StarBot, Inc. is also a leader in bringing engineering education to many at-risk youth programs and is dedicated to excellence in engineering education. She is the CEO of USATL of which she founded in 2011, and with her background and experience in robotics education has been recognized by the Robotics Society of America, the National Tooling and Machining Association, the American Welding Society, the University of Miami, the City of Miami, the City of Miami Beach and other leaders in education and manufacturing. She is dedicated to bringing STEM programs and educational opportunities to all youth and students in the South Florida community.

If you have any questions about this article or would like to find out more information about upcoming events and activities, email Nola Garcia at nola@usatl.org.



Recent Engineer Discipline

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

Wendy Bruseski, PE
 PE 53983
 Case No. 2012052732 & 2013028825

Licensee was charged in both cases with negligence in the practice of engineering, a violation of Section 471.033(1)(g), Florida Statutes, and Rule 61G15-19.001(4), Florida Administrative Code. In case number 2012052732, Licensee signed, sealed and dated engineering design documents for an aluminum screen enclosure. The documents were materially deficient in that the roof framing beam element was overstressed, the non-flo-thru wall post element was overstressed, the cable brace connection details were deficient, failure to set forth or define the mansard rise dimension, etc. In case number 2013028825, Licensee signed, sealed and dated engineering design documents for an aluminum screen enclosure. The documents were materially deficient in that the allowable stress for the roof beam element was grossly exceeded at required loading, the allowable stress for the side wall post element of the structure was exceeded, failure to make a project specific analysis of the existing trusses to determine their capacity or maximum allowable overhang, structural details fail to set forth the length of the receiving channels supporting the roof beam element, etc.

Ruling: Pursuant to Settlement Stipulation, Licensee shall place her license on "Inactive Status." Licensee may reapply for reactivation of her license as a professional engineer after fulfilling the following: (1) Fine of \$3,000; (2) Costs of \$11,542.25; (3) Appearance before the Board to discuss how the situation occurred, what improvements and quality control measures she plans to implement to improve her work product, and how she intends to prevent the circumstances from occurring in the future along with Licensee's

activities during the license inactivity, (4) A Board-approved course in Screen Enclosure Design, a Board-approved course in Advanced Engineering Professionalism and Ethics; (5) Study Guide. After reactivation, Licensee will be placed on two years' Probation which includes Project Review at six and eighteen months. A Final Order was issued on 4/15/14.

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

Stephen Maslan, PE
 PE 38400
 Case No. 2013026181

Licensee was charged with negligence in the practice of engineering, a violation of Section 471.033(1)(c), Florida Statutes. Licensee was the subject of a Final Order entered by the Kansas State Board of Technical Professions. The State of Kansas charged Mr. Maslan with gross negligence, incompetency, misconduct, or wanton disregard for the rights of others. 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), Florida Administrative Code 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 an initial Settlement Stipulation; the Board rejected the initial Settlement Stipulation and authorized a Counter Settlement Stipulation which was agreed to by the Licensee.

(Continued on page 13)

Pursuant to the Counter Settlement Stipulation, the Board imposed Costs of \$1,126.50, a Reprimand, RESTRICTION from practicing any Fire Protection engineering until such time that the Licensee completes, passes and submits proof of passing the NCEES Fire Protection Exam; two years' Probation with terms which includes completion of the Study Guide, and a Board-approved course in Engineering Professionalism and Ethics, and Project Review at six and eighteen month intervals. A Final Order was issued on 4/29/14.

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

Stephen E. Mitchell, PE
PE 77318 (Old PE #39579)
Case No. 90-12725

Licensee was charged with the negligence in the practice of engineering, a violation of Section 471.033(1)(g), Florida Statutes. Licensee was hired to provide engineering services that included planning, permitting and construction of a residential subdivision. Licensee notified the client that the project was prepared for roads and drainage systems and the water transmission; however, there were no proper DEP permits for storm water discharge or proper approval of construction plans.

Ruling: The Board approved a Settlement Stipulation imposing an Administrative Fine of \$2,000, required the Licensee to voluntarily place his license in an "Inactive Status" with the condition that if he ever chose to reactivate his license, the following would apply: Appearance before the Board, two (2) years' Probation with terms, terms include four (4) Project Reviews, a Board-approved course in Engineering Professionalism and Ethics and completion of the Study Guide. A Final Order was issued on 8/28/95. Licensee allowed his Florida PE license to become Null & Void on 9/7/10 without completing the terms of the Settlement Stipulation and applied for licensure by endorsement on 9/12/13. Please note that the Licensee appeared before the Board at the December 2013 Board Meeting. During that meeting, the Board allowed Licensee to obtain a new Florida PE license, with the following terms: Licensee shall complete the terms of the previous Final Order.

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

Randall Mosby, PE
PE 22326
Case No. 2011028047

Licensee was charged with failing to report any of the criminal dispositions made against him to the Board, a violation of Section 471.033(1)(a), Florida Statutes, by violating Section 455.227(1)(t), Florida Statutes. Licensee was found guilty of several criminal charges and failed to report any of those convictions to the Board as required.

Ruling: A Final Order was issued against Mr. Mosby on June 25, 2013, adopting a Settlement Stipulation which indefinitely SUSPENDED the Licensee's professional engineer license until such time as the Licensee could demonstrate that he could practice with reasonable skill and safety. An Order on Reinstatement was issued on September 13, 2013. The Order Reinstated Licensee's professional engineering license with the following terms: two years' Probation with terms which include Project Review at three, six and 18 months, Licensee will be indirectly monitored by W. Keith McCulley, PE who will submit quarterly reports by letter to the Board, Licensee shall enter into the Freedom Journey Program with Faith Farm Ministries who will also submit quarterly reports to the Board. A Final Order was issued on 6/25/13 – Order of Reinstatement was issued on 9/13/13.

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

Lawrence Wilson, PE
PE 30273
Case No. 2013011573

Licensee was charged with negligence in the practice of engineering, a violation of Section 471.033(1)(g), Florida Statutes. Licensee sealed, signed and dated plans for a playground shade structure which were materially deficient. The deficiencies include, but are not limited to: failing to identify the correct iteration of the Florida Building Code to be used for the intended documents, failure to specify the correct material specification for weldable reinforcing steel, the direction of the battered piles is not indicated on the drawings, the calculations do not indicate how the lateral load is transferred from the columns into the foundations, etc.

Ruling: The Board imposed a Fine of \$1,000, Costs of \$1,387, a Reprimand, Probation which includes completion of the Study Guide, and a Board-approved course in Engineering Professionalism and Ethics, Project Review at six and eighteen months, and Appearance before the Board to discuss how the situation occurred, what improvements and quality control measures he plans to implement to improve his work product, and how he intends to prevent this circumstance from occurring in the future. A Final Order was issued on 2/18/14.

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

James Zaleski, PE
PE 51544
Case No. 2013000391

Licensee was charged with negligence in the practice of engineering, a violation of Section 455.227(1)(c), and Section 471.033(1)(d), Florida Statutes. Licensee entered a plea of guilty to criminal charges relating to fraud and civil theft from Licensee's employer - a contractor. Since the criminal actions

Exams, Applications & Upcoming Renewal Information

With summertime soon upon us, it is hard to believe that we are approaching the third testing window for the FE computer-based testing (CBT) exam. The April 2014 PE exam cycle has come to a close and the beginning of another renewal cycle is on the horizon.



The conversion of the FE exam to CBT seemed so far away just a year ago, but since its implementation in January 2014, the application, registration and examination process seems to be proceeding smoothly. The reporting of grades directly to the candidates and to the state boards within 7-10 days of the exam completion has also expedited the process for those needing to retake the exam. When FBPE receives the grading information from NCEES, we input the grade into the applicant's specific records, thereby allowing EIT certification numbers to be assigned to those applicants who have submitted a final transcript showing the date of graduation. Normally it takes 8-10 weeks to assign numbers and mail out the certificates; however, this could take a little longer should the applicant still need to submit their final transcripts and proof of graduation. Since applications for the FE exam are now accepted on an on-going basis there are no deadlines associated with submitting an FE exam application. Nevertheless, it is important to note, that it takes approximately 30-45 days for FBPE to process the applications and obtain the necessary approval before the applicant can register with NCEES and select an exam time and location.

The FE exam passers from January 2, 2014 through May 15, 2014, and the PE exam passers from the April 2014 exam cycle are included in the *Special Recognition* section of the newsletter so join us in congratulating those individuals starting their careers as new Engineers in Training and those joining the ranks of Professional Engineers in Florida. We hope to have numbers assigned to those new PEs by mid-June. Passers of the PE exam will be able to verify their licensure status at www.myfloridalicense.com, where the license numbers will be displayed prior to mailing out the licensure documents.

Applications for the October 2014 PE exam are being reviewed by licensure analysts in preparation to go to the Board for review and approval. The deadline for initial applications was May 16, 2014, with final submissions to complete the application due into the office by **June 20, 2014**. *Re-Exam* applications and *Additional Discipline* exam applications for current licensees are also due in by the **June 20, 2014**.

Deadlines for PE applications and exam dates are listed below:

FBPE PE/ SE Application Deadlines

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

Like most things in life, we mark the passing of time by occasions such as Christmas, New Years, Independence Day and so forth. Now we can mark the coming of the odd years by knowing it is **RENEWAL** time again. Licenses and certificates must be renewed by February 28 of each odd year, making **February 28, 2015** the deadline for renewing professional engineer licenses and certificate of authorizations. Once CE requirements have been met, beginning **November 3, 2014**, licensees may log into their accounts at www.myfloridalicense.com, pay the renewal fee and be renewed at that time. We will not have paper renewal forms available online this year, as we hope to encourage all Florida licensees to use the online renewal process. This will eliminate the time delay when working with paper renewals and eliminates the chance of anything being misdirected in the mail. With this said, it is imperative that you ensure that your licensure record information is current and up-to-date and includes a valid e-mail address.

Communication of licensure updates, renewal information and statute and rule changes will be made available through our website, newsletters and mass email in the coming months so don't miss out by updating your record today!

Reporting of CE credits by the licensee is no longer required to renew a license. The Board requests that approved providers still enter the credits into the record for the PE. If a licensee is up-to-date in CE credits from the current biennium, that licensee will sign an attestation that the CE requirements have been met for this period and that licensees may be subject to a random audit of CE credits. Note: Make sure you keep your CE certificates for two renewal periods as required by Board rules.

To access more information about continuing education, go to our website at <http://www.fbpe.org/continuing-education/continuing-education-ce-requirements>. Information about the renewal process can also be found on our website at <http://www.fbpe.org/licensure/license-renewal>. **STAY TUNED** for more information on renewal in our next issue of FBPE *Connection* and note that updated information and instructions as it relates to the upcoming renewal cycle will be added to the website in the coming months as the official opening of renewal begins.

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

Managing Your Licensure Records

Did you know that whenever your contact information changes it is **YOUR** responsibility to update your licensure record?

FBPE wants to remind you of the importance of keeping your vital information accurate on your licensure record.

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

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

To submit your changes you can simply complete the interactive form located at the bottom of the *Other Forms* page located under the *Licensure* section at <http://fbpe.org/licensure/other-forms> or email the new information to board@fbpe.org. Note: when emailing your request to update your record with new information you **must include** your full name, license number, old and new address, phone number and email.

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

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



FBPE would like to congratulate all of the candidates that successfully passed the NCEES Fundamentals of Engineering (FE) and the Principles and Practice (PE) 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 January 2, 2014-May 15, 2014)

Armando Aguilar
Whitney Ajax
Robert Algazi
Nicholas Allega
Abdalla Al-Rawashdeh
Ian Anderson
Alexander Anderson
Michael Armstrong
Anie Atanacio
Luis Avila
Spencer Baker
Chelsea Balkam
David Barber
Toben Barnhart
Amber Batchelder
Chad Baumann
Barry Beaman
Grant Bejin
Paul Benton
Dylan Bertin
Kari Bishop
Eric Born
Samuel Botero Restrepo
Monaem Bouazizi
Stephanie Boyd
Donald Brassart Jr.
Kevin Brawner
Kelly Brayshaw
Daniel Bruzos
Alexander Inigo Burkley
Luis Calderon
Sergio Carratala Lamarca
Jordan Case
Christina Casler
James Caster
Rudy Castillo
Kevin Cevallos
William Chambers
Timothy Chan
Aaron Chastain
Daniel Chevez
Zachary Cline
Devin Colligan
Andrew Cone
Matthew Conley
John David Conser
Soraya Conserve
Stephen Crawford
Graham Culkar
Ryan Curll
Jesse Curtin
Richard Damigos
Paul Davidson
Andrew De Alba
Luis Delfin
Mikhail Dino
Ricky Dodd
Daniel Doyle
Tyler Duda

Branden Eckenrode
Steven Elliott
Billy Ernst
Ahmad Farhat
Kyle Faulkner
Andrew Fell
Lisette Fernandez-Schuck
Nicholas Filamini
Justin Fischgrund
Blanca Franco
Fernando Fuentes Jr.
Michael Garcia
Phillip Garcia
Grant Gatson
Jonathan Geiger
Ethan Gilbert
James Gillespie
Scott Glancy
Nikki Glann
Bailey Glass
Matthew Goddard
Alex Goetz
Ryan Gray
Tyler Griffiths
James Hall
John Hamilton
Matthew Hardy
Nicholas Hartshorn
William Heausler
Michelle Hedrich
David Hengelbrok
John Herman
Peter Hernandez II
William Hicks
Victor Ho
Brett Hostutler
Julius Allen Hughes
Jacob Hutcheson
Mica Jackson
Daniel Jackson
Benjamin Jassin
Eric Jimenez
Chloe Johansen
Brittney Johnson
Berthony Jolis
Aaron Joseph
Alexander Kaelin
Zachary Keller
Shane Kelley
Sayyid Khan
Kathleen Kirsch
Lauren Kleiman
Tyler Klemm
Joseph Kohrman
Sebastian Kotarski
Michael Kruse
Priyadarshini Kumbhojkar
Enrique Lairet
Joseph Lakner

Ali lamhamedi Cherradi
Robert Lawler
Matthew LePera
Justin Lindquist
Matthew Lloyd
Jena Lococo
Charles Long
Sara Lopez
Emilio Lopez Pino
Luis Lopez-Blazquez
Trang Luong
Sarah Luther
Christine Lyons
Fuxi Ma
Galen Macpherson
Heather Mariscal
Michael Marrero
Tancredo Marte Alonzo
Bruce Massey
Alicia Mata Mudarra
Christina Matsuo
Robert McGinnis
Andrae McGregor
Harrison McLarty
Ariesp Mejia
Nicolas Mendieta
Luis Mendieta Elena
Gustave Michaud
Darryl Mikulec
Gerson Monroy
Daniel Montes
Kara Mulholland
James Murphy
Brian Myers
Brandon Nails
Cory Nelson
Michael Nixon
Matthew Norman
Christopher Ordonez
Kayla O'Steen
Thomas Pauly
Carlos Perero
Kadmiel Perez
Armando Perez
Alfredo Perez
Joshua Peterson
Scott Piatt
Joseph Plunkett
Daniel Powell
Sheila Preble
Fazal Qureshi
Eric Raudebaugh
Shawn Reed
Joshua Reeves
Alexandra Reid
Daniel Reynolds
Laura Ricu
Andres Rodriguez
Regina Rodriguez

Steven Rousseau
Nicholas Ruiz
Maria Ruiz Quesada
Caitlin Sabell
Mario Sabi
Adrian Sandt
Edoardo Sarda
Tabatha Savage
Erik Schneider
Luke Schultheis
Alyse Scurlock
Zachary Seed
Romel Seepaul
Aaron Shott
Derek Slabosz
Paul Smith
Yenny Soca
Charles Sohm
Alejandro Solanilla
Christopher Sotomayor
Bryan Sousa
Dustin Spears
Christopher Spears
Eduardo Spinetti Rincon
Prashanth Sridharan
Zachary Stone
Trenton Strackbein
Eva Strickland
Artem Strunnikov
Tyler Suddeth
Arthriya Suksuwan
Caroline Swartz
Robert Tavares
Zachary Taylor
Samantha Tindel
Gustavo Toledo Melendez
Wilbert Ehurris Torres
Harry Tuazon
Sarah Tweneboah
Roy Tyson
Matthew Uelmen
Jeffrey Van Dyke
Phillip Vanciel
Enaity Vazquez
Alexis Vieira
Matthew Walsh
Jianyun Wang
Annaliesa Watters
Nolan Wells
Daniel Whalen
James Whaley
Miles Wilson
Steven Wilson
Christopher Winardi
Jacob Wischneski
Ryan Wright
Bentley Zephirin

NCEES Principles and Practice (PE) Exam Passers - October 2013 (April 2014 Exam Cycle)

Mohamed Abouellella
Mario Acosta
Hatem Aguib
Christopher Allen
Ryne Allen
Raymond Anderson
Felix Anton
Helmuth Arens
Roy Arias
Franck Banctel
Rita Banhunyadi
James Barnes
Robert Barthelemy
David Bearce
Carlee Beauchamp
Nicolas Bernales
Benjamin Biesterveld
Jordan Bjorn
Cory Blake
Nicholas Bouchard
William Bowdoin
Neville Bowen
Edward Brantley
Michael Brock
Michelle Brown
Ricardo Brown
Anthony Caggiano Jr.
Russell Caldwell
Chad Campbell
Jose Campuzano
Kevin Cann
Louis XIV Chrispin
Gianni Ciancone
Kellie Clark
Jeremy Clark
Zachary Clark
Eugene Collings-Bonfill
Andrew Coman
Colin Connor
Andrew Conrad
Christopher Cook
Ronald Crawford
Kyle Cronin
Jeff DePiazza
David Deranzio
Julien Devisse
Lisandro Diaz
Daniel Diaz
Jeff Dinges

Aissata Diouf
Joseph Dixon
Jacob Donaldson
Colin Doyle
Corey Dunlap
Alan Dunlavy
Eric Dykes
Thomas Emerson IV
Jason Espinosa
Joan Fabian
James Falls
Michael Ferdinand
Russell Ferlita
Christopher Ferraro
Joseph Fielden
Paula Fonseca
Sommer Foster
Aysel Freda
Marcos Gaitan
Roger Galde
Gregnel Garcon
Daniel Garner
Robert Gelhardt
Kacy Gilbert
Pastor Gonzalez
Kristin Graziani
Timothy Gruebel
Weston Haggen
George Hall
Danielle Hall
Alejandro Halley
Rufus Hamilton
Ali Hanes
John Hearin
Julie Heiser
John Henriksen
Gabriel Hernandez
Erin Hibbard
Marjorie Hilaire
Joshua Hollingsworth
Scott Hunt
James Hurtt
Wesley Infinger
James Jackson
Jeremy Jardell
Joshua Jenkins
Anthony Jicha
Josh Johansen
Nathan Johnson

Robert Johnson
Donald Jones
Adam Jordan
Lyndsay Keller
Cory Kennedy
Jennifer Kerr
Geoffrey Klug
Ryan Kmetz
Carl Knott
Nina Kshetry
Kristina Lacava
Eric Lanning
Amanda Lavigne
Trung Le
Dalrio Lewis
Matthew Lippiatte
Nelson Lizazo
Benjamin Loeb
William Lord
Soumel Loriga
Julie Lowrey
Yuliya Lukyanets
Fuxi Ma
Percy Malpartida
Eduardo Marin
Maria Mariner
Jennifer Marrero
Jorge Marrugo
Jenna Martin
Deyvis Martinez
Elisha Masseus
Whitney Maynard
Kimberly Mazur
Aaron McDaniel
Steven McMahon
Kenneth Mcneese
Rodney Menendez
Eelhard Meneses
Anthony Michuda
Brandon Mintz
James Mitchell
Joanna Monge
Cara Morton
Richard Mullins
Rasheed Muslimani
Sylvia Nassif
Raymond Nazaire
Pranaya Neupane
Zlatan Nezic

David Nielsen
Luis Nieto
Mathew Nirenberg
Albert Novak
Charles Nunez
Darrell O'Kain
David Olund
Liam O'Reilly
Cristina Ortega-Castineiras
Christian Ossa
Jonathan Outlaw
Katherine Ovalle La Torre
Stephen Park
William Parrish Jr.
Luis Pena
Vanessa Perez de Morales
Jeffrey Petermann
Jeffrey Peters
Vanessa Pino
Jeffrey Pohlig
Karen Polanco
Anaysis Pombal
Julian Poole
Nathan Presnell
Tomas Pribanic Solari
Thomas Price
Michael Pulido
Lina Quintero
Dian Rahming
Jason Ramsay
Aaron Rank
David Rasmussen
Liyanage Ratnayake
Kenneth Rau
Alfredo Rauseo
Derek Reed
Tomas Remete
Juan Rendon
Jessica Reyes
Daniel Rivera
Martha Rodriguez
Stephanie Romero
Patricio Romero Cruz
Joshua Rose
Jason Rostek
Brett Rowan
Alan Ruiz
Adam Russell
Paul Saa

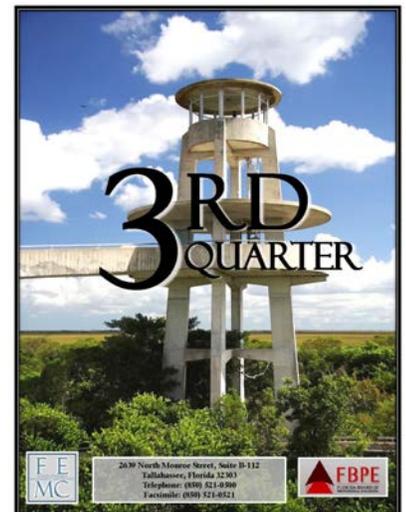
Edmund Saldana
Nicholas Schwartz
David Schweiger
Christopher Senter
Hector Serrano
Christine Shafik
Steven G. Simmermaker Jr.
Tyler Smith
Alexander Sol Silva
David Staley
Kerrick Stegmeier
Brandon Stidham
Erik Stuart
Zackary Stuhr
Shawn Talley
Christopher Taylor
Lynwood Taylor
Antonette Taylor
Jason Tosspoon
Viet Tram
Eric Trillas
James Trufan, Jr.
Anam Usman
Jorge Vincent Uy
Bence Vajta
Ryan Van Hall
Vanessa Vitale
Tyler Wallum
Brendan Walsh
Yiwen Wang
Jennifer Wasilenko
Clayton Watkins
Eric Weaver
Antoinette Webster
Robyn Weitknecht
Christopher Wence
Brian Werner
Matthew Weyenberg
Emily Whitman
Damaris Williams
Joseph Williams Jr
Jared Willis
Ellis Wright
Dalia Wright
Nathan Wunder
Tak Yip
Adel Youssef

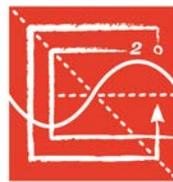
FEMC & FBPE Quarterly Reports

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 3rd 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.

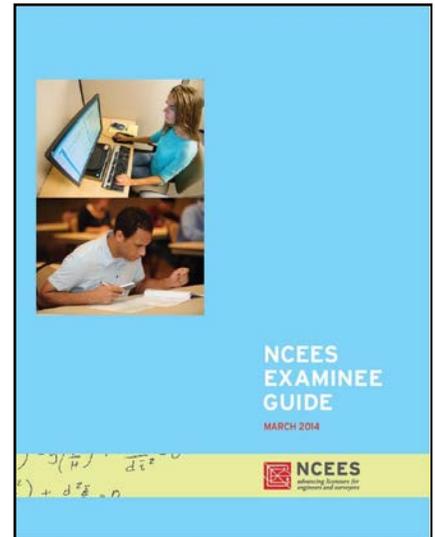
Should you have any questions related to this report or others found on our site, please send your inquiries or comments to board@fbpe.org.





New NCEES Examinee Guide Now Available

In early April 2014, NCEES contacted the state boards providing information and links to a revised version of the NCEES Examinee Guide. The NCEES Examinee Guide is the official guide to policies and procedures for all NCEES exams. All examinees are required to read this document before starting the exam registration process and it is their responsibility to ensure they are using the most current version. The following identifies all the changes reflected in the March 2014 NCEES Examinee Guide:



- ⇒ The acceptance of American Express as an additional form of payment for the exam.
- ⇒ The inclusion of a sample diagnostic report at the end of the guide for the computer-based exams.
- ⇒ Specification to provide documentation supporting request to reschedule/cancel or refund within 14 days of the original scheduled appointment.
- ⇒ Clarification in the scoring section of the guide that includes additional language that states, "**NCEES does not publish the passing score because it varies slightly based on difficulty. NCEES scores each exam with no predetermined percentage of examinees that should pass or fail. All exams are scored the same way. First-time takers and repeat takers are graded to the same standard.**"
- ⇒ Added the "Chat Now" function at the bottom of every page on the NCEES website to speak to someone directly.
- ⇒ Added language to the Cancellations and Refunds section that states, "**If you have an issue regarding a payment or refund, contact NCEES directly at 864-654-6824. Fees associated with charge backs, returned checks, or any form of disputed payment are the responsibility of the issuer.**"
- ⇒ Changed language in the Examinee Comments section to state that comments regarding a particular exam question can be made to NCEES within 10 days via the examinee's MyNCEES account.
- ⇒ In the Breaks section of the NCEES CBT Exam Rules appendix section, language was added that states, "**Breaks: After completing approximately 55 questions and clicking "End Review," examinees will be offered an optional 25-minute scheduled break. Examinees must return from their scheduled break on time. Time allocated for the second portion of the exam will be reduced by an amount equal to the minutes an examinee is late in returning. Unscheduled breaks can be taken any time during the exam. The exam timer will not stop for unscheduled breaks.**"
- ⇒ Changed the language under the NCEES Candidate Agreement for the April 2014 Exam Administration to read, "**Licensure candidates qualified to take an NCEES pencil-and-paper exam must review this agreement and the NCEES Examinee Guide before sitting for the exam.**"

NCEES exams are administered in either a computer-based format or a pencil-and-paper format. Each method of administration has specific rules. This guide describes the rules for each exam format. Please refer to the appropriate section for your exam. To access the most recent version of the *NCEES Examinee Guide* (dated March 2014) please go to their website at <http://ncees.org/exams/cbt/examinee-guide/>.



APRIL 2014 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 April 2014 *Licensure Exchange* at <http://ncees.org/about-ncees/ncees-licensure-exchange/>. This edition includes article topics such as:

- NCEES makes a difference with Engineers Week • From the President - Boards must ask what they can do to improve mobility in their jurisdictions • NSPE Engineering Body of Knowledge defines key capabilities for a PE • Annual meeting puts bigger picture of national council in focus • Member Board Brief - Sex offenses and their reasonable relationship to professional practice • Enforcement Beat - Member boards must help each other to better protect the public • Headquarters Update: NCEES works to promote licensure and much more.

NCEES Notices Future Exam & Supporting Material Changes

On April 23, 2014, NCEES provided reminders for the upcoming October 2014 exam cycle as well as made several announcements regarding the April 2015 exam cycle. Should you require further clarification on examination guidelines or qualifications, contact NCEES directly at 1-800-250-3196 or at 1-864-654-6824.

October 2014 Exam Cycle Reminders

PE Petroleum - The PE Petroleum exam will have revised specifications starting in October 2014. The specifications are posted on the NCEES website and can be found by going to their website [PE Petroleum Exam Specifications - October 2014](#).

Fall 2014 Exam Dates - The fall exams will be administered on **October 24** and **25, 2014**. The PS and PE exams and the Vertical Forces component of the SE exam will be administered only on Friday, **October 24, 2014**. The Lateral Forces component of the SE exam will be administered only on Saturday, **October 25, 2014**.

Fall 2014 Registration - Registration for the fall exams with NCEES will open on **June 16, 2014**, and close for examinees at 3:00 p.m. eastern time on **August 28, 2014**.

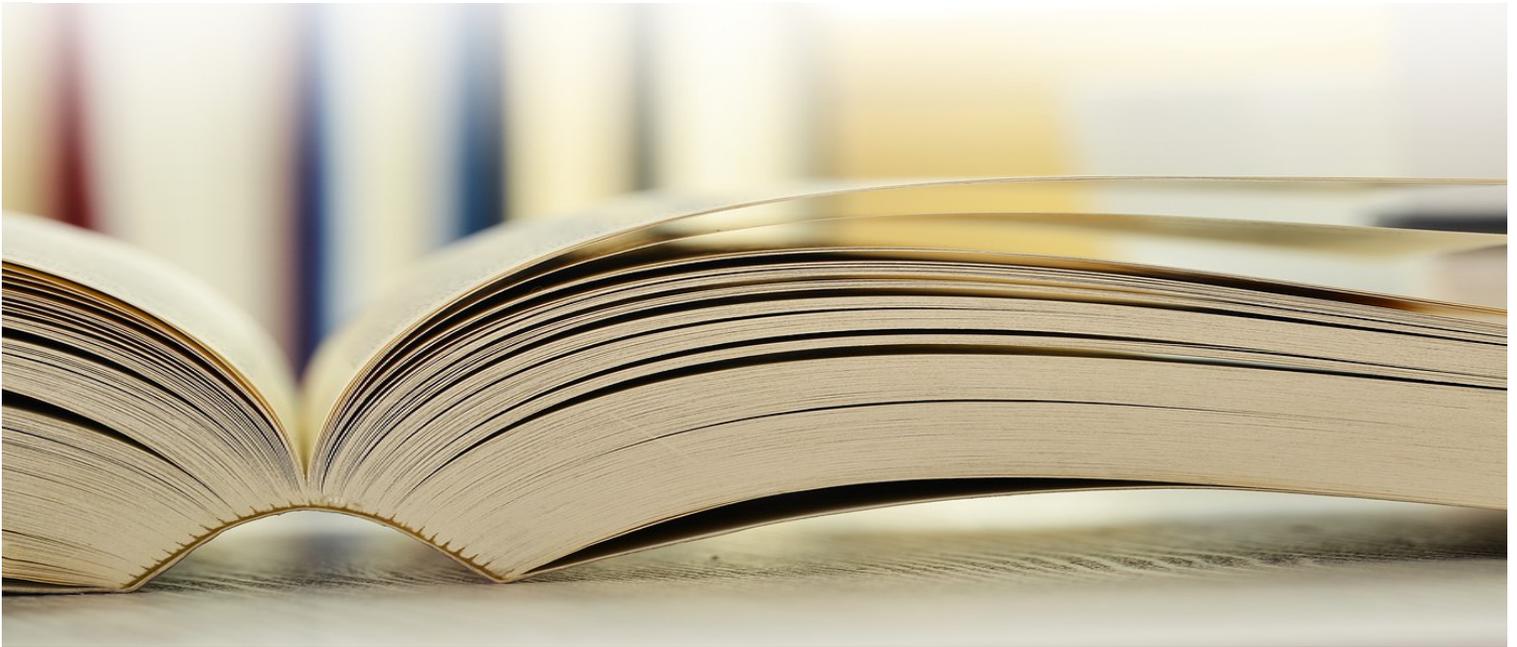
Special Accommodations - All requests for testing accommodations must be submitted through the NCEES E3 system by the registration deadline of **August 28, 2014**. These include accommodations for ADA and religious reasons and for active military service. More information about special accommodations is posted on the NCEES website at <http://ncees.org/exams/special-accommodations>.

April 2015 Exam Changes

Structural Engineering (SE) 16-hour - The SE 16-hour exam will have revised design standards starting in April 2015. The standards will be posted on the NCEES website **AFTER** the October 2014 exam.

PE Civil - The PE Civil exam will have revised specifications starting in April 2015. There will also be new design standards for the Civil Construction, Geotechnical, Structural, and Transportation modules starting in April 2015. The specifications and standards will be posted on the NCEES website **AFTER** the October 2014 exam.

PE Agricultural and Biological Engineering - The PE Agricultural and Biological Engineering exam will have new specifications starting in April 2015. The specifications are posted on NCEES' website at [PE Agricultural & Biomedical Engineering Exam - New Specs April 2015](#). PLEASE NOTE: the PE Agricultural exam **WILL NOT** be administered in October 2014. It has been revised and renamed the PE Agricultural and Biological Engineering exam and will be administered starting in April 2015 and in every spring administration thereafter.



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.

occurred while performing services which, when performed by a PE, involved the use of engineering skills and the actions showed a lack of good moral character, the facts underlying the guilty plea involved the practice of and ability to practice engineering.

Ruling: Pursuant to Settlement Stipulation, the Board imposed a Fine of \$1,000, Costs of \$159, a Reprimand, a one-year Suspension (this Suspension is STAYED and will not take effect so long as Licensee is not convicted of any crimes for a period of five years), two years' Probation which includes completion of the Study Guide, and a Board-approved course in Advanced Engineering Professionalism and Ethics, and Appearance before the Board to discuss how the situation occurred, what improvements and quality control measures he plans to implement to improve his work product, and how he intends to prevent the circumstances from occurring in the future. A Final Order was issued on 4/15/14.

Violation: Section 455.227(1)(c), and Section 471.033(1)(d), Florida Statutes

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

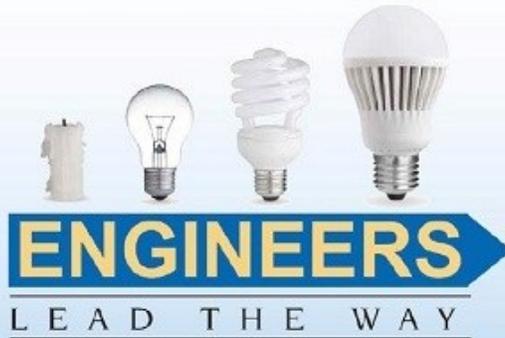
Disclaimer: *FBPE would like to note that every effort has been made to ensure the accuracy of discipline information; however this should not be relied upon without verification from the Board office or website. It is possible that names of companies and individuals listed may be similar to the names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



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to go directly to our page!



FES/FICE 98th Annual Conference & Expo



Marco Island Marriott Beach Resort, Golf Club & Spa
August 6-9, 2014

FBPE will be attending the FES/FICE 98th Annual Summer Conference and Exposition, August 6-9, 2014, in Marco Island, Florida at the Marco Island Marriot Beach Resort, Golf Club & Spa. Each year FES/FICE's conference offers its members a number of educational sessions regarding industry related topics and exhibits, a Florida Laws and Rules seminar, member/chapter meetings and receptions and a guest Key Note Speaker.

This year's theme is "Engineers Lead the Way." Registration for this event will be accepted at the FES office until **July 14, 2014**. You can register online and obtain hotel information at www.fleng.org. Arrangements have been made for attendees to receive a discounted hotel rate if you register by **July 15, 2014**. To reserve your room go to the Marco Island Marriott's website or select [MAKE A HOTEL RESERVATION](#).

To access the program containing the schedule of events and course descriptions you can [CLICK HERE](#). If you are interested in sponsoring an activity during the conference or participating as an exhibitor download the [Exhibitor and Sponsor Information Kit](#).

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

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



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

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.



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

Grand Opening for Port of Miami Tunnel

Submitted by: Christopher A. Zavatsky, PE, M.ASCE
President, ASCE Miami-Dade Branch

This major infrastructure project was completed at an estimated design and construction cost of \$912 million dollars, including a 0.75 mile (1.1 km) long twin-tube highway tunnel that connects the MacArthur Causeway (I-395) on Watson Island to the Port of Miami on Dodge Island in the City of Miami. The direct access to the Port of Miami will improve not only safety in the downtown Miami area by taking freight and cruise line traffic away from local streets but will also provide much needed relief for traffic congestion.

The Younger Member Group (YMG) of the ASCE Miami-Dade Branch was fortunate enough to have organized a site visit to the *Port of Miami Tunnel Project* in September 2013 and members were most recently invited to attend a follow-up presentation in May 2014 by **Victor Ortiz, PE** (Tunnel Maintenance and Operations Oversight Manager.)

Attendees were provided an in-depth assessment of the *Port of Miami Tunnel Project* and an overview of history in the making. Mr. Ortiz discussed the tunnel operation plan and expected maintenance. The ASCE Miami-Dade Branch along with the City of Miami are proud to have this engineering marvel completed and open for use by our local and state businesses.

After four years of construction, May 19, 2014, proved to be a landmark day in Miami...the Port of Miami Tunnel is officially open! Governor Scott and other Florida state and local officials conducted the dedication and official opening to traffic, marking the completion of this project as one of the most expensive and intricate transportation projects in the history of South Florida.



(Images appear courtesy of the ASCE Miami-Dade Branch)



For more information about this project and to view their image gallery go to the Port of Miami Tunnel website at <http://www.portofmiamitunnel.com/>.



The Miami-Dade Branch is a subsidiary of Florida Section, Region 5 of the American Society of Civil Engineers (ASCE). The Miami-Dade Branch holds regular meetings for its 900+ members providing opportunities for networking and keeping up with the latest engineering news and trends. They also produce a regular monthly newsletter. In addition to their general meetings, members participate in community service activities, provide continuing education

sessions and also offer scholarships for local university students. To find out more information about this chapter and how to become a member go to their website at <http://www.miamidade-asce.org/>.

To look for an ASCE branch in your area or to join the American Society of Civil Engineers on a national level go to their website at <http://www.asce.org/Regions-Sections-Branches/>.



62nd BOAF Annual Educational Conference & Trade Expo

Representatives of FBPE will be in attendance at the 62nd BOAF Annual Education Conference and Trade Expo June 8-10, 2014 being held at the Hilton Clearwater Beach Resort in Clearwater, Florida. This year's theme for the event is "BOAF - Taking the Next Step."

Registration/check-in for the event begins at noon on Sunday June 8, 2014 with activities extending through Wednesday, June 11, 2014, including educational classes, trade show exhibitors, social events, networking opportunities and much more. You can access the official attendee brochure by going to BOAF's website and selecting the [Conference Attendee Brochure](#). For a comprehensive list of the courses offered during the conference/expo select their [Course Schedule](#). For those interested in attending as an exhibitor you can [CLICK HERE](#) to download their exhibitor brochure.

Visit BOAF's official website at <http://www.boaf.net/> to obtain more information about the organization, this year's event and other upcoming events.

BOAF represents Building Officials, Inspectors and Plans Examiners and the building industry in the State of Florida. BOAF's mission is to provide for the safety, health and welfare of the citizens of the State of Florida through the education, development, maintenance and enforcement of building codes using unified strength and resources to attain a thriving business, community and association environment.

In Their Own Words...

Each issue of the newsletter, FBPE reports on its activities and involvement with many of the engineering colleges and student chapters. This issue we asked for some of Florida's engineering colleges to tell us about their E-Week activities and share their perspective on how they engage our younger generation in science, technology and math and promote engineering. We are pleased to have updates from FIU, UNF and UF to showcase what exciting things they are doing within their schools and community.

FIU 2014 Engineering Expo

Submitted by: *Stephanie Strange*
FIU CEC Associate Director
Office of Student Access & Success

This year the Florida International University (FIU) College of Engineering and Computing (CEC) hosted its 13th annual Engineering Expo and it was once again a very exciting and engaging experience. **FIU President Mark Rosenberg** along with **FIU CEC Dean Amir Mirmiran** welcomed over 1400 elementary, middle and high school students to the FIU engineering center from Dade and Broward County schools.

The college celebrated its 30th anniversary this year and the day of the expo, Friday, February 21, 2014, was officially proclaimed *FIU Engineering Day* in Miami-Dade County. The *FIU Engineering Expo* has become a legacy event and has something for everyone. All of the research labs at the college are open for tours and FIU engineering students create interesting and fun “hands-on” projects. The Society of Women Engineers (SWE) created a musical banana keyboard to teach electrical current flow, and the ever popular Discovery Labs Telebot prototype “Hutch” Robocop made a guest appearance to reinforce the advantages of robotics in our everyday lives. Other activities included a bicycle powered blender, a driving simulation lab, a chance to build your own Rube Goldberg machine, and exhibits by the NASA Hybrid Rocket Team and Panther Motorsports Formula 1 Team Car.



SWE Musical Banana Keyboard & Discovery Labs “Hutch” Robocop

The *FIU Engineering Expo* is a community outreach event that provides exposure to science and engineering for local public school students in an effort to encourage them to consider a career in the engineering and science professions, where minorities are under-represented. The Expo enhances the professional and inter-personal development skills of participants and it also provides an opportunity for students and faculty of the college to work together as a cohesive team to benefit the community.

This year the FIU College of Engineering and Computing also celebrated another important anniversary. In 2004, the AMERI (Advanced Materials Engineering Research Institute) and the Motorola Nanofabrication Center were opened. The Motorola Nanofabrication Center is always the most coveted tour at the Expo, and its’ research members are eager to teach young people the new and exciting science of nano materials engineering. As an open access lab the AMERI is unique in the state as a “one stop shop” for nano research, characterization, analysis, fabrication and testing. Teaching student visitors at the Expo is not a stretch for nano lab scientists since the college offers 4 undergraduate/ graduate courses in nano fabrication processing. To find out more about FIU's Advanced Materials Engineering Institute (AMERI) go to their website at <http://ameri.fiu.edu/index.htm>.



Students outside the Motorola Nano Fabrication Center Clean Room

(Continued on page 23)

After 13 FIU engineering expos, many current FIU engineering students attended the Expo when they were in school and that's what made them want to become engineers. This validates the *Engineering Expo* as a college legacy event that will continue to serve the community in the future.

The FIU 2015 *Engineering Expo* will be held on Friday, February 26, 2015 at the FIU Engineering Center. Any school interested in attending the Expo should contact **Stephanie Strange** at sstra001@fiu.edu to request an invitation and make a reservation. You can also contact Ms. Strange if you are interested in sponsoring or volunteering at next year's event. You can view more information about this year and past year events by going to their website at <http://www.osas.fiu.edu/outreach/engineering-expo/>.

For more information about FIU's College of Engineering and Computing visit their website at <http://www.cec.fiu.edu/>.

*This article was submitted by **Stephanie Strange**, FIU CEC's Associate Director of the Office of Student Access and Success. Ms. Strange graduated from the FIU College of Engineering and Computing in 2001 with a degree in industrial and systems engineering. Upon graduation, she was hired by the college as the Assistant Director of Recruitment and Retention. After attending the Educational Leadership Enhancement program at FIU and elite leadership program for women and minorities, Ms. Strange was promoted to Associate Director of the newly conceived FIU College of Engineering and Computing, Office of Student Access and Success; overseeing numerous outreach programs as well as administering Dual Enrollment and working on projects and events conducive to student retention and success. Since its inception in 2001, Ms. Strange has been instrumental in the success of FIU's Engineering Expo and its becoming FIU CEC's premier outreach event growing in attendance and stature each year.*

Engineers' Week at UF Engineering a Celebration

Submitted by: **Sam Nason**, 2014 E-Week Director and VP of Programs
UF Benton Engineering Council



Engineers' Week (E-Week) at the University of Florida (UF) is not the typical celebration most would expect from a group of engineers. It is not a series of aerodynamics and calculus lectures culminating in an engineering project to change the ages, rather E-Week is a two-week long series of events hosted by the Benton Engineering Council designed to celebrate the accomplishments of engineers everywhere with fun and meaningful activities.



E-Week at UF began in 1951, stemming from the first ever *Engineering and Science Fair* (E-Fair) in 1945. While Engineers' Week has grown to annually host more than 15 events over two weeks, ranging from a trivia bowl to an environmentally conscious campus-cleanup, *E-Fair* has continued to be very well attended and highly valued among its attendees. Today, *E-Fair* has become a two-day showcase to teach and excite local elementary, middle, and high school students about STEM. This year, more than 25 student-run UF engineering societies designed interactive booths to

demonstrate the concepts their members learned in their coursework. The 1,300 attending students from 28 different schools found the liquid nitrogen ice cream station and the model roller coaster booths very educational, having learned about the different types of energy and how they can be converted from one type to another.



Young students aren't the only ones who benefitted from the activities of UF's E-Week 2014. At one of the larger events during the E-Week's celebration, the *Engineering Leadership Forum*, University of Florida students had the opportunity to become acquainted with corporate leaders. Representatives from Cameron, Pepsi Co., Proctor & Gamble, and Target gave UF students the opportunity to understand the working life of a professional engineer at each corporation and build their corporate network. Further,

(Continued on page 24)

the new *Engineering Festival* provided UF students with an environment to relax and enjoy the products of engineering outside the stresses of classwork. The rock climbing wall, live band performances, and carnival games developed by engineering societies were creative and exciting, truly embodying the celebratory nature of Engineers' Week at UF. We look forward to next year's Engineers' Week, as, just like the theme of E-Week 2014, "*Its limit is sure not to exist!*"



To find out more about Engineers' Week 2014, please view the website at www.ufbec.org/EWeek2014. To stay updated with the preparation of Engineers' Week 2015 and to find out how you can get involved, please follow E-Week on Twitter @EWeekUF or e-mail **Andy Flores** at eweek.uf@gmail.com with any questions.



The Benton Engineering Council (BE) was established in 1910 to serve as the executive and legislative coordinating body for the students and organizations in the University of Florida's College of Engineering. You can find out more about UF's BEC by going to their website at <http://www.ufbec.org/>.

(Images appear courtesy of UF's Benton Engineering Council)

This article was submitted by Sam Nason, 2014 E-Week Executive Director. Mr. Nason is a third year electrical engineering student at the University of Florida's College of Engineering. He served as this year's Executive Director of E-week and also serves as the Vice-President of Programs with UF's Benton Engineering Council. When asked about what he looked forward to the most about the celebration of Engineers' Week, he said "E-Week is not just about the events that focus on engineering, but how these events unite Gator students, faculty, and administrators with younger students and even representatives from corporations in celebrating what engineering has accomplished anywhere."



NorthEast Florida Engineers Week & How We Celebrate

Submitted by: **Janet Duffy**, 2014 NE Florida E-Week Chairperson

Did you know Engineers Week is the only event of its kind? And the mission is to sustain and grow a dynamic engineering profession through outreach, education, celebration, and volunteerism?

Engineers Week was established in 1951 by the National Society of Professional Engineers (NSPE) to raise awareness of engineers' positive contributions to our quality of life. Recently, Engineers Week changed their name to "Discover E." Their website tells us: "... Engineers Week programs were local, disconnected, and mostly focused within the profession. In 1990, the Foundation and Bechtel Group launched DiscoverE, the first formal national call to engineer volunteers for engagement in K-12 education, partly in response to government studies showing future shortages in engineering talent. DiscoverE became the Foundation's K-12 umbrella volunteer outreach movement.....By 2013, it became apparent that with such a robust and diverse portfolio, a broad and deep coalition, and year-round engagement, our organizational name-National Engineers Week Foundation-was inaccurate and misleading. We wanted a name reflective of who we are and who we serve. The one selected was the catalyst for all accomplishments: DiscoverE."

Now, do you know the definition of INVISIBLE or STEALTH? The definition of "invisible" is unable to be seen, not visible to the eye. The definition of "stealth" is secret, recondite, insidious, clandestine." Have you ever thought that engineering can be described as either one of those two words? Guess what, engineering has been. Take a moment to think about it; what around you is not "engineered" in some way? You may not see the engineer behind it, but he or she is there! Engineers are imaginative and analytical and they invent, design and build things. They turn their ideas into reality yet they are team players using their independent minds.

All of us associated with this great profession in NE Florida take the time to encourage young people to consider careers in engineering. We attempt to show the young people why engineering is important and fun and there is no better time to do just that than to celebrate during national Engineers Week. Here are just a few examples of the activities held during February 2014 to commemorate all things engineering:

(Continued on page 25)

9th Annual Boy Scout Engineering Merit Badge Clinic -

Held on Saturday, February 1, 2014, at the University of North Florida (UNF) volunteers taught sessions on engineering and assisted 90 Boy Scouts earning their engineering merit badge. At the same time UNF hosted a Parent Information Session, which consisted of a panel of admissions and financial aid experts, where all parents who came away with new ideas of how to plan and fund their child's future education.

Engineers Week Kick-Off Luncheon - February 14, 2014 marked the "official" start of Engineers Week hosted by ASCE and was attended by 175 engineers and students. The luncheon is an opportunity to bring industry representatives together with students who have been awarded scholarships, allowing networking, student engagement with local companies and recognition of their achievements. Mr. Cleveland Ferguson, III, Deputy CAO for the City of Jacksonville, was also in attendance and presented the Mayor's Proclamation recognizing National Engineers Week in Jacksonville.

E-Week Golf Outing - February 17, 2014 started off chilly however once the sun rose over the horizon, the day couldn't have been better for a round of golf. This year, 50 golfers spent their day raising money for the E-Week Endowed Scholarship at UNF.

Science, Technology, Engineering & Math (STEM) -

We are committed to encouraging the importance of STEM to as many students as possible, made evident by the different associations and local companies awarding 25+ scholarships to college students and graduating high school seniors during the Annual Engineers Week Kick-off Luncheon. In addition, the NE Florida Chapter of the Florida Engineering Society (FES) was proud to host the annual MATHCOUNTS® competition on Friday, March 1, 2014, at the UNF Arena. Open to "mathletes" in a five-county area, approximately 50 NE Florida middle schools participated making Jacksonville one of the largest MATHCOUNTS® competitions in the country.

USACE Engineering Career Day - The Jacksonville District U.S. Army Corps of Engineers (USACE) and the Society of American Engineers (SAME) hosted their 12th annual Engineering Career Day on Friday, February 20, 2014. More than 150 high school students, parents and teachers from 13 schools in NE Florida attended the event and competition. The day-long event promotes the importance of STEM and challenges students to form teams and compete in activities covering several elements of engineering.

The culmination of this year's celebration was our **Annual Awards Banquet and Dinner Dance** held on Saturday, March 1, 2014 at the Touchdown Club at Everbank Field in Jacksonville, FL home of the Jacksonville Jaguars. This special evening is set aside to honor all engineers and others involved in the engineering field not just those nominated for awards.

Our evening began with a cocktail hour that was highlighted with the display of many of UNF's engineering student project competitions, such as the ASCE Steel Bridge, Osprey Racing Team, IEEE Hardware-Robotics Competition, Prototype Bioreactor for Zero-Gravity, Wearable Gait Stimulator, Quad Rugby Wheelchair Trainer, Bar-Bot Software Design, Re-design of Harmon Stadium, and Engineering Services for Site Plan of Fire Station #61. The students had the opportunity to not only show off their very creative projects and ideas but they had the opportunity to interact with as many as 120 Engineers and their guests.

Ken Ibold, Aviation Consultant with RS&H's Aviation Program, was the evening's guest speaker and enlightened attendees about the Spaceport at Cecil Field. Mr. Ibold, is responsible for commercial spaceport planning and licensing, was the lead author of the Cecil Spaceport Master Plan and is project manager for an ongoing Launch Site Operator License Amendment at Cecil Spaceport.

As the night proceeded with dinner, dance breaks and networking, it was finally time for the NE Florida Engineers Week Committee to announce the winners of its 2014 awards. These awards are given to those individuals in recognition of their achievements and contributions to the engineering profession and their community. This years' winners include:

Young Engineer of the Year Joseph Champion



(Pictured left to right: Peter Hallock-King Engineering, Joseph Champion-Ellis & Associates, & Janet Duffy-Eisman & Russo)

Engineer of the Year Michael Whelan, PE, D.CE, FESF



(Pictured left to right: Jim Robinson-City of Jacksonville Public Works Director, Michael Whelan, PE, D.CE, FESF- Taylor Engineering, Peter Hallock-King Engineering & Janet Duffy-Eisman & Russo)

2014 Florida MATHCOUNTS[®] Competition

Promoting Middle School Math Achievement

Article Reprinted with Permission from FES-Journal Issue May 2014



First Place Team - Fairview Middle School of Tallahassee, Florida

home the 2nd place team award. They fell just behind **Fairview Middle School**, which took home the 1st place team award, representing the Big Bend Chapter. Fairview's Coach, **Terry King**, advanced to coach our Florida team at the national competition. All eight students on the top two teams were awarded a trophy and \$50.

The Florida national team consists of the top four individuals from the overall competition. They each received a trophy and a \$400 award. After two weekend retreats, the following four Mathletes[®] will represent Florida at the national competition through an all-expense-paid trip. They are:

- ⇒ 1st Place: **Graham O'Donnell Fairview Middle School**, Tallahassee
- ⇒ 2nd Place: **Brian Reinhart The Weiss School**, Palm Beach Garden
- ⇒ 3rd Place: **Samuel Li Sanford Middle School**, Sanford
- ⇒ 4th Place: **Richard Liu Pioneer Middle School**, Weston

The Florida Engineering Society, representing over 3,300 professional engineers throughout the state, advances the public welfare and promotes the professional, educational, social and economic interests of the engineering profession. Florida's MATHCOUNTS[®] mission is to actively encourage and stimulate interest in mathematics for Florida's 6th, 7th and 8th grade students in both public and private schools. The ultimate goal is to spark students' interest in mathematical, engineering and technical fields that will, in effect, increase the likelihood that the students will pursue careers in these all important areas of today's technologically-advanced society.

The 2014 Raytheon MATHCOUNTS[®] National Competition took place in Orlando on May 8-11, 2014, at the Walt Disney World Swan and Dolphin Resort. It comprised of 224 final Mathletes[®] from 50 U.S. states and U.S. territories, as well as their coaches. The Florida team competed as both team and individual members for the chance to win more trophies and scholarships. To find out how Florida and other teams placed in the competition go to their website at <http://mathcounts.org/programs/competition-series/national-competition>.

For additional information on the Florida Engineering Society or the Florida MATHCOUNTS[®] program, please visit www.fleng.org and <http://www.fleng.org/mathcounts.cfm>, respectively, or call Florida's MATHCOUNTS[®] Coordinator **Abby Andersen, CMP** at 850-267-4981.

The Florida Engineering Society (FES) celebrated the 31st anniversary of MATHCOUNTS[®] at the annual state competition on March 20, 2014 at the DoubleTree by Hilton at the Entrance to Universal Orlando.

Over 225 Mathletes[®] competed as individuals or as part of a team; 47 teams competed for first place; and over 65 coaches trained Mathletes[®] for the big day. Volunteers from around the State of Florida, many of whom were FES members, volunteered their time to make this day memorable and exciting for the Mathletes[®].

After three rounds of morning testing (Sprint, Target and Team) and two afternoon testing rounds (Ciphering and Countdown), the winners were determined. **Sanford Middle School** from the Central Florida Chapter took



FES President Glenn E. Forrest, PE welcomes everyone to the 2014 Florida Mathcounts[®] Competition.

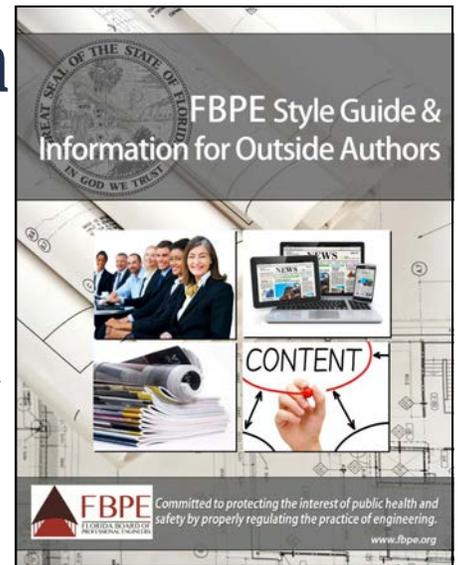


FLORIDA
MATHCOUNTS[®]

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.



NorthEast Florida Engineers Week & How We Celebrate
(Continued from page 25)

Technician of the Year Richard Bame, D.M.



(Pictured left to right: Peter Hallock-King Engineering, Richard Bame, D.M.-FDOT, & Janet Duffy-Eisman & Russo)

Teacher of the Year Jeanie Spiwak



(Pictured left to right: Peter Hallock-King Engineering, Jeanie Spiwak, & Pete Sheridan-VIA Consulting)

Professor of the Year Paul Eason



(Pictured left to right: Peter Hallock-King Engineering, Paul Eason-UNF & UNF CCEC Dean Mark Tumeo, PhD, JD, PE)

2014 *Engineers Week* in NorthEast Florida was a huge success, and like *DiscoverE*'s 2014 e-week theme, "Let's Make a Difference," engineers and volunteers in our community are definitely proud and enthusiastic about making a difference in a young person's life.

For more information about NE Florida e-week activities, opportunities for sponsorship or to volunteer go to their website at <http://nefl-eweek.org/>.

For more information about National Engineers Week and *DiscoverE* go to their website at <http://discovere.org/>.



This article was submitted by Janet Duffy, this year's 2014 NE Florida E-Week Chairperson, is the Documents Manager at Eisman and Russo, located in Jacksonville, Florida. Ms. Duffy has over 42 years' experience in project management, office management and public information, with the last 23 years in the engineering field on construction and environmental projects and has been employed by Eisman & Russo as Documents Manager for 13+ years. Her expertise includes Public Awareness, Public Relations on construction projects and Document Control on construction and transit-related projects. Ms. Duffy is active in the community as Co-Chair of the FDOT / FTBA Northeast Florida Construction Career Days and the University of North Florida's (UNF) Engineering Advisory Board, as well as the NE Florida E-Week Chair Person for the past 2 years and Co-Chair of the Banquet committee for the past 6 years.



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2013-2014

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