



William R (Rob) Maples, PE

PRESIDENT'S MESSAGE

Greetings to my fellow engineers and members of ASCE East Central Branch (ECB),

Welcome to the May 2011 ASCE ECB Newsletter. Just a reminder our most important fund raiser of the year is fast approaching and we need your help! The ASCE-ECB Annual Golf Tournament is scheduled for May 13, yes Friday the 13th. Ken Morgan (Ken.morgan@dot.state.fl.us) our Tournament Chair, is seeking sponsors and golfers. So as Ken says, "Come out and try your luck on Friday the 13th". The application is included in this newsletter with more information. Look forward to seeing many of you at this important event. The membership committee hosted the first membership social and mixer on April 21 at Paddy Murphy's in Baldwin Park. I enjoyed meeting some new engineers and had the opportunity to introduce ASCE.

The Education committee is hosting the finals for the West Point Bridge competition on May 14 and could use new volunteers to promote our profession the students. The Education committee has many fun opportunities to volunteer.

As always I need to point out that our Technical Committees are continuing to be active and are seeking your participation. Engineering Management is hosting their luncheon on May 17th with Steve Precourt as the guest speaker presenting a Legislative Update. The committees are only successful as long as you get involved.

Our Younger Member Forum continues to be one of the most active groups in the State and invites you to review their activities and join in the fun.

Please feel free to contact me or any of your board members with any ideas to further your society. I look forward to working with many of you as we make this year very successful and fulfilling.

William R (Rob) Maples, PE
ASCE East Central Branch Florida Section President

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ASCE SmartBrief

Federal efforts succeed in mitigating risk of severe flooding

The federal government has gained the upper hand when it comes to Mississippi and Ohio river flooding, writes David Welky, an associate history professor at the University of Central Arkansas. The nation was right when it assumed control of the country's major waterways after catastrophic flooding in 1937. Today, with flood defense systems in place, "floodwaters are now nothing more than a curiosity" for many along the rivers' banks. [The New York Times \(tiered subscription model\) \(5/10\)](#).

The Geomatics Division Executive Committee (GMD)

The Geomatics Division's Executive Committee (GMD) is seeking to establish contact with at least one ASCE member in every Section and Branch of ASCE who has an interest in Surveying Engineering. It might be helpful if the individual is a licensed Land Surveyor! However, it certainly is not a requirement! This contact person would be encouraged to keep the GMD committee apprised of surveying issues in their State. There is no envisioned term for this person so there is little risk! More than one person may be in this liaison position so please step up if interested.

Please contact Rob Maples <mailto:mapleswr@cdm.com> if you have an interest in being involved in this National committee.

Upcoming Educational Volunteer Opportunities

- May 14 West Point Bridge Competition at UCF 10:30 AM
Contact: Mike Olka - molka@metzbridges.com
- May 18 9-11 AM FES Engineering, Planning & Science Outreach @ East Lake Elementary
Contact: Mike Davis, P.E., FES, mjdavis@pbsj.com
- May 18 9-11 AM FES Engineering, Planning & Science Outreach @ Stone Lakes Elementary
Contact: Dave Schmitt, P.E., FES; dave.schmitt@dseorl.com
- May 19 Science Night at East Lake Elementary - 6:30 to 8 pm
Contact: Mike Olka - molka@metzbridges.com

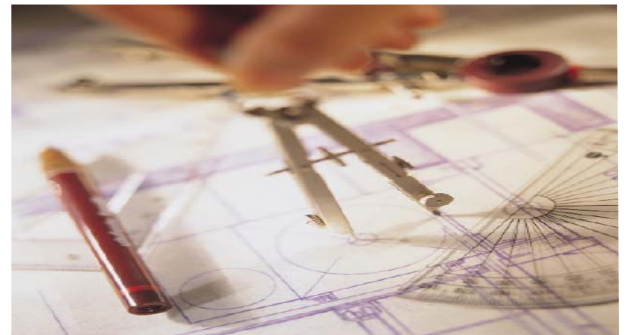
**FOR MORE INFORMATION ABOUT EDUCATIONAL OPPORTUNITIES CONTACT
JEFF EARHART AT 407-591-5040**

Jeff.Earhart@Woolpert.com

Looking for just the right professional to fill big shoes? Looking for a new career opportunity? Look to your ASCE East Central Branch Newsletter!

The East Central Branch of ASCE is helping our community's engineers and engineering firms make a connection by offering **FREE** advertising for both parties.

- If you are an engineer seeking a new career opportunity, you may submit a small ad free of charge to be run in the ASCE ECB Newsletter for a period of three months. To be considered, you must be, or have been an active member of ASCE.
- For a firm seeking new team members, we will run a free 1/4 page advertisement for a period of three months as well.



For more information, please contact Nancy Cortes at cortes@pbworld.com

The following are current job opportunities. Please contact the firms who have available positions directly with any questions.

CURRENT JOB OPPORTUNITIES



Pegasus Engineering, LLC is currently seeking a water resources project engineer (PE or EI) for its office in Winter Springs, Florida. Candidates should have 3 to 6 years of practical stormwater experience related to basin studies and drainage retrofit projects. The position includes stormwater modeling, report writing, permitting, design, and field reviews under the direction of senior staff. Candidates should also be proficient in various software packages such as Microsoft Office, ICPR, AutoCAD, and GIS. Please send resume to david@pegasusengineering.net.



Highway Engineer – Candidates should possess a BSCE, Florida P.E. and at least 8 years highway design experience. FDOT roadway/drainage design and permitting experience required. Must be a self-starter and capable of working with a team of both project engineers and designers. Effective communication skills and ability to make events happen are essential. Interested candidates should submit a cover letter and resume to hr@lochrane.com. Please note position title in the subject of the e-mail.



Marketing Assistant/Coordinator, Part-Time to Full-Time Opportunity – Lochrane Engineering, Inc., a 30 year old engineering and surveying firm, is looking for a strong marketer to support their Marketing Manager in the full array of marketing initiatives for the firm's 3 Divisions: Transportation, Land Development and Survey, to include Federal pursuits. This will start as a part-time 24 hr to possible 32 hr position, but will need to be available to work 40 hours from mid-July through mid-October. Hours after that time will be negotiable with the opportunity to be a full-time position. This opportunity is IMMEDIATE and we are interviewing now and over the first few weeks of March, so get your resumes in ASAP to be considered. Find our more details about the position responsibilities and skills needed at <http://www.lochrane.com/careers/careers/21-support/202-marketingassistant>. To apply, please send resume and cover letter to Christi Posey, CPSM, Marketing Manager at christi.posey@lochrane.com.



Inwood Consulting Engineers, Inc. (Inwood) is currently seeking a water resources project engineer (PE or EI) for its main office in Oviedo, Florida. Candidates should have 3 to 6 years of practical experience related to watershed, stormwater, drainage retrofits, permitting, and/or surface water quality related projects. The position includes watershed/stormwater modeling, report writing, permitting, design, and field reviews under the direction of senior staff. Candidates should also be proficient in various software packages such as Microsoft Office, ICPR, ArcView, ArcInfo, Microstation, and Geopak. Please send resume to resume@inwoodinc.com.

Windermere Engineering Services, Inc. Firm is a professional engineering corporation performing geotechnical engineering projects. This position requires a licensed Professional Engineer; at least 2 to 5 years' experience in geology/geotechnical engineering is required. Specific experience in forensic (sinkhole) evaluation/geotechnical engineering is preferred. Please contact James E. Rothrock, P.E., at 407-293-7030, or jr@wpes.net

Specific skills:

- Excellent skills in WRITING REPORTS for Forensic Geotechnical Explorations.
- Must be technically superior with excellent written and verbal communication skills.
- Has knowledge of soil classification and laboratory testing of soils.
- Experienced in preparation of boring logs, site plans and repair plans.
- Skilled in development of repair (grouting/underpinning) plans and specifications.
- Knowledgeable in creating spread sheets and graphic presentations.
- Performing engineering analyses.
- Knowledge of field work methods/SOPs.
- Experience with performing and interpreting ground-penetrating radar a plus.

**ASCE East Central Branch
Annual Scholarship Golf Tournament**

Stoneybrook West Golf Club

Friday May 13, 2011

Noon Registration

1:00 PM Shotgun Start

- UCF • Closest to the Pin Contests
- ERAU • Longest Drive Contests
- PUPR • 4 Person Scramble Format

<i>Sponsor Options</i>	
Gold (4 players + Hole) @ \$500 _____	Silver (2 players + Hole) @ \$300 _____
Individual Player @ \$100 _____	Dinner Only @ \$20 _____
Hole Sponsor @ \$200 _____	Dinner Sponsor @ \$250 _____

- Your check reserves your space to play. Register early to guarantee your participation.
 - Please e-mail registration and logo to june1370@yahoo.com.
 - **Make donation checks payable to: ASCE**
- **Mail donation checks to:** Ken Morgan, 1016 Pebble Beach Cir. West, Winter Springs, Fl, 32708
- **Contact Ken Morgan, Tournament Chair @ 407-264-3335 for any questions.**

Firm / Company _____ *(please e-mail logo)*

Contact _____ Phone _____

Players 1. _____ 2. _____

3. _____ 4. _____

Check here if you would like to fill in vacancies on your team with an ASCE engineering student chapter player



Come on out and try your luck on Friday the 13th. You're not superstitious are you?

Mulligans will be available for those of you that want to change your luck.

The golf event is followed by a dinner and awards. All proceeds from the event are used to support scholarships for engineering students at University of Central Florida, Embry Riddle Aeronautical University, and the Orlando Campus of Polytechnic University of Puerto Rico.

ASCE East Central Branch Scholarship Recipients



I would like to extend my sincere gratitude to you and ASCE for the donation of the East Central Branch Scholarship. I have been very blessed to have the opportunity to attend college, and I truly look forward to continuing my education here at UCF. This scholarship is very important to me, because it relieves some of the stress of paying college expenses, allowing me to spend more time concentrating on my studies.

This spring concludes my second year as civil engineering major at UCF, and I have certainly enjoyed it so far. I hope to enter a career in either transportation or structural engineering when I complete my degree. This summer I will be taking a break from school to work and complete an internship at Metric Engineering, a transportation firm. I am very excited to gain some experience in the field and then be able to apply it to my classes next fall and spring. Also, I have been involved with the ASCE student chapter on campus and was able to go to conference this past semester. I am really looking forward to being active in the club next year and attending conference again.

Thank you again so much for your generosity. I genuinely appreciate receiving this scholarship, and I look forward to furthering myself academically and professionally in the coming year.

Sincerely,



David Bancroft



**WATER RESOURCES / EWRI CHAPTER
TECHNICAL TRAINING**

**THE ENGINEERS' ROLE IN
STORM PIPE CONSTRUCTION**



With: Douglas J. Holdener, P.E.
Florida Region Engineer
Rinker Materials Concrete Pipe Division - CEMEX

When: Thursday, May 19th
Registration: 11:45 am
Presentation: 12:00 pm

Where: Sheraton Orlando Downtown
(formerly Marriott Downtown)
400 West Livingston Avenue



Cost: \$20 per person
Only \$10 for government employees

"The cost of the training will include a 50 min. training/presentation with lunch provided."

Description of Presentation:

The civil engineer's responsibilities don't end with specifying pipe diameter and optional materials. Engineers are increasingly responsible for structural analysis and construction-phase services. This presentation will provide a brief narrative of how concrete pipe was historically designed, installed, and inspected. Current industry practices will then be discussed in order to contrast the current standard of concrete pipe installation, design, and inspection. The expectations and perspectives of various stakeholders will be presented, including the underground utility contractors that rely on Engineers' designs and state-level and city-level owners expectations of pipe installation performance and the role of the Engineer of Record. An overview is provided of current standards for pipe inspections, typical review concerns, and construction-phase engineering obligations. The presentation will conclude with discussion of various situations and examples that will evoke thought about the engineer's standard of care with regards to engineering storm pipe installations.

Outline:

1. Brief Historical Perspective of Concrete Pipe Use
2. Structural Engineering of Pipe Installations
3. A Turning Point: Post-Installation Video Inspection
4. Perspectives on Pipe Installation Engineering and Specifications
 - a. Contactors
 - b. FDOT
 - c. City of Orlando and Other Municipalities
5. Pipe Inspections and Evaluating Performance and Design
6. What is the Standard of Care?

Reservation(s) by 05/17 (Tues) to [Herman Tirado, Jacobs, herman.tirado@jacobs.com](mailto:herman.tirado@jacobs.com) or (407) 903-5156

Please Note: Due to our financial commitments to the Sheraton Hotel, no shows as well as cancellations after Tuesday the 17th of May will be invoiced.



If you require a vegetarian menu, arrangements can be made at the time of RSVP to the e-mail provided above.

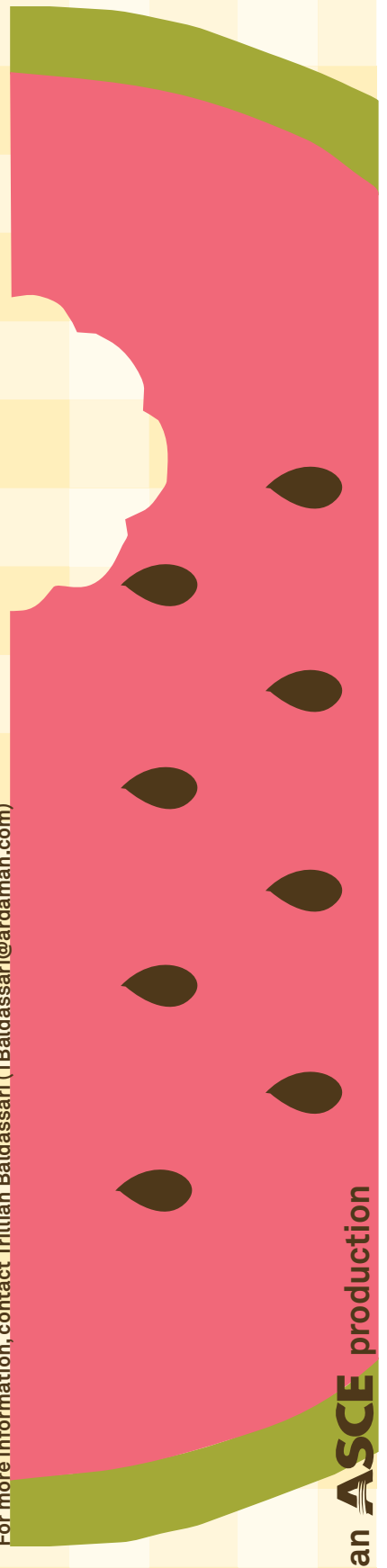
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save the date

JOIN US FOR THE 4TH ANNUAL ICEBREAKER

tuesday, july 12th
6:00 pm to 9:00 pm
orlando science center
dino digs room
be there or be

For more information, contact Trillian Baldassari (TBaldassari@ardaman.com)



an **ASCE** production

ASCE
American Society of Civil Engineers

ENGINEERING MANAGEMENT & TRANSPORTATION GROUP LUNCHEON

Tuesday, May 17, 2011



Legislative Update 1

Stephen L. Precourt, P.E.
Florida State Representative, District 41

Sheraton Orlando Downtown Hotel
400 W. Livingston Street

Registration 11:45 A.M.

Cost: \$25

Please RSVP to George Schlutermann at (407) 926-4381 or
gschlutermann@burnsmcd.com by May 13th.

ROOKIE SUPER 7 TEAM WINS RISING STAR AWARD AT THE FIRST LEGO LEAGUE STATE CHAMPIONSHIP

The "Super 7" robotics team, supported by EPIC Engineering & Consulting Group, LLC and ASCE East Central Branch, is a very talented group of elementary-aged kids, based in Oviedo, FL, who worked hard to design, build, and program a LEGO-based robot for the FIRST LEGO League (FLL) competition. FLL is a program that introduces young students to real-world engineering challenges and, through the process, learn to make positive contributions to society. The kids met twice a week for 4-5 hours each week to work on their robot design, as well as a research project for the competition.



The theme for this year's competition was "Biomedical Engineering" and the Super 7 team selected the central nervous system as their topic of research and learned a lot about the structure and behaviors of neurons. They learned about the diseases of the nervous system such as multiple sclerosis (MS), Alzheimer's disease, Lou Gehrig's disease and paralysis. From there they chose to study MS, a disease that can cause many problems such as blurred vision, loss of balance, slurred speech, numbness, extreme fatigue, memory problems, paralysis, and blindness. The Super 7 team researched and developed a solution named "Super Suit" to help mobility problems.

Using a programmable computer motor module and a defined set of LEGO parts, the Super 7 team designed, built, tested and programmed a LEGO robot from scratch that can autonomously perform a set of specific tasks. The robot they designed was required to complete up to 12 tasks in 2.5 minutes for a total of 400 points. The kids were not only judged on their robot's performance and their research project, but also on their teamwork, organization and gracious professionalism skills.

"The kids did everything, from design to construction, and all the programming in the computer. It's very sophisticated work," says EPIC's principal Prasad Chittaluru, coach of the Super 7 and father of two of its members. "I had a blast coaching these wonderful kids from five schools in Seminole County and Orange County (Stenstrom Elementary, Evans Elementary, Tuskawilla Montessori, Page Private School and St. Luke's Lutheran School)." Prasad is also working with the ASCE Education Committee members Seminole County Public Schools officials to explore incorporating elements of the competition into the SCPS science curriculum.

The Super 7 team showed the judges that they have the potential to compete at state and maybe even national level. They ended their first FIRST LEGO League season on very positive note by winning the "Rising Star" trophy at the State Championship. "They had so much fun doing it that they are already planning on competing in next year's competition," says Shri Varadarajulu, co-coach and team parent. "These kids are very bright and hard working and did an excellent job competing."

In addition to EPIC Engineering and ASCE, the Super 7 team received support from AMD (Advanced Micro Devices) and Woolpert. Below are statements from the co-coach team members about FLL, what it meant to them and how the substantial support from AMD and ASCE helped.

Shri Varadarajulu (co-coach):

We are very proud of all the kids and the hard work they put into this whole program. Despite their young age, these kids are extremely bright and have a passion for learning. This was an incredible opportunity for them to not only gain knowledge of robotics and biomedical engineering, but also the invaluable experience of working as a team, participating in a tournament and the importance of organization, which will serve them the rest of their lives. For a team that started in October not knowing each other, never working on the NXT robot as far as how to build and program it, not understanding the concept of teamwork and research or competing in an event with judges and large crowds, came a long way and showed the judges that they have the potential to compete at state and maybe even national level. All this would not have been possible without the support from our sponsors. The funding was used to buy the robots, pay for the tournaments, pay the registration fees and purchase the initial start up kit. Having the financial support allowed the kids to have more practice time on the robots, which definitely helped during the competition.

The competition taught the kids many valuable lessons about engineering which they will carry through their lives. Some of the lessons learned by the kids include:

- It taught them how one robot will behave differently than another because of manufacturing tolerance/differences, which was a big eye opener/learning curve for the kids because they see the world without imperfections.
- It taught them how hardware and software both have to work well together to have a successful robot run.
- It taught them about repeatability and good quality workmanship. In addition, because we had multiple robots, all the team members had the chance to design and program the robot, which was one of our plus-points at the tournament.



Here are some comments from the kids on the Super 7 Team about their experience with FLL:

Jared (5th grader, 10yrs old) I learned how to work in a group. This was my first time playing with legos. I learned how fun building with legos can be. When I first started, I thought it was only about building robots. Then I realized there were other more important parts like core values and research. I would like to thank you for supplying us with the lego sets and the time from your employees to help us. Thank you for introducing us to legos and my career as an engineer.

Nikhil (5th grader, 10yrs old) I learned that in FLL there is more to a team than being together, you have to act together, think together and work together. Because of FLL, I learned about Multiple Sclerosis and the nervous system. They also have a cool way of making kids learn through robots, teams and projects. Thank you AMD for sponsoring us. We could not have done it without you. Thank you for helping us with our team supplies, robots and entrance fees. We are having so much fun.

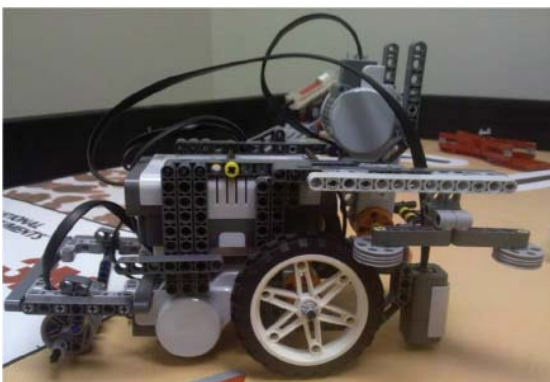
Neha (3rd grader, 8yrs old) I learned that teamwork is the most important part of being a team player. I learned that there is no "I" in team. I would like to thank our sponsors for donating money. We wouldn't be able to have 3 robots without you. It made it easier for us to learn and compete more effectively.

Dylan (5th grader, 10yrs old) In FLL I learned that a lot of things

are worth the stress. FLL is a lot of fun, even though it is stressful at times. I would like to thank you for the money we used to purchase our robots, which was about \$1200. We used the rest of the money to buy other supplies we needed to train.

Ankit (5th grader, 10yrs old) We started out not knowing anything about FLL. With the help of our coaches and mentors, we learned a lot about engineering. We slowly got to the qualifying, and got to the regional. We practiced and improved a lot in those two and half months. Overall, FLL has been an exciting and unique experience, as well as, teaching us about engineering. It is also a fun way of learning and it also teaches about communication. I made so many friends in FLL. I want to thank ASCE and AMD for giving us the robots and making this experience possible. If they weren't there, it would be harder to complete FLL. The robots helped us program more, and do the missions faster. Thank you!

TJ (5th grader, 11yrs old) I liked FLL a lot even though it was a lot of work. I learned all about building and programming with Lego Mindstorm. Also I learned very important lessons such as don't judge a person by how they look but judge a person by their personality. I would like to thank EPIC, ASCE and AMD for sponsoring us so we could buy our robots. With these robots, we were able to program faster letting us win.



Membership Renewal Deadline was Dec. 31; Have You Paid Dues?

As an ASCE member, you're connected to the latest industry trends, linked to the best professional development programs, and engaged with a network of colleagues worldwide. Even more, your continued involvement builds a solid foundation for keeping your career on track and moving toward achieving your professional and personal goals. Avoid an interruption in your benefits -- please renew today! Four renewal options are available: online at www.asce.org/renewal (the quickest and easiest way); by fax at 703-295-6333; by phone at 800-548-2723, Monday-Friday from 9 a.m. to 6 p.m. ET (or for international members, 703-295-6300); and by mail to ASCE Membership, P.O. Box 79084, Baltimore, MD 21279-0084. Ensure a positive return on your investment as a professional civil engineer as a member of ASCE.

Share:



Remember to please check the boxes for East Central Branch. We encourage all members to include the voluntary \$10.00 contribution to ECB to help our scholarship, education, Central Florida Field Trip, and many other worthwhile activities the ECB supports during the year.

We are in it to make Civil Engineering build a better tomorrow for our Community.

UCF-CECS Engineer-Teacher Connection

The College of Engineering and Computer Science at the University of Central Florida (UCF-CECS) has embarked on an initiative to connect STEM (science, technology, engineering and mathematics) educators with technical professionals. The goal is to help educate young students in and outside of the classroom to learn what engineering and other technical fields of study are and what engineers and other technical professionals do. It is called the "Engineer-Teacher Connection". The ETC has been made possible with support from General Electric Foundation and the Florida Space Grant Consortium. The on-line system matches STEM educators' talent and resource needs with the profiles of engineers, scientists and medical technologists from across Florida. It uses a combination of geographic matching and content matching using "big picture" state science standards to connect teachers and engineers. The system will in time connect formal STEM educators with informal STEM educators for purposes of sharing insights and educational materials. The ETC also has the ability to record educators' resource needs as we will be working with program partners to explore ways of finding STEM related supplies and materials.

The CECS Outreach Office that operates the system is seeking our organization's assistance to help recruit one or more engineers or other technical professionals who would be willing to spend one or more hours in a classroom. They may be asked to be a resource speaker, assist students with hands on projects, participate as a science fair judge, mentor a student and/or help a teacher in developing a technical unit of study for their curricula.

If interested, please go to the ETC website at <http://stemaidd.ucf.edu/Home.aspx> and then click on the "Sign Up" link in the upper right hand corner. The system will prompt users through the next couple of steps. This provides a most convenient system to help technical professionals connect with STEM educators and the many young students they teach.

ASCE / ABET Program Evaluators Needed

ASCE is seeking qualified civil, construction and architectural engineering technology educators and practitioners to serve as ASCE/ ABET Program Evaluators. ABET team members evaluate engineering and engineering technology programs, from their area of engineering expertise, as well as gain an overall perspective of the host institution. Confidential post visit evaluations are prepared and integrated into the final review. All current and prospective civil engineering and civil engineering technology evaluators must attend the new ABET Program Evaluator Training before visiting a program. For additional information on how you can become involved in this rewarding experience, contact Dion Coward at dcoward@asce.org for more information.

EDUCATION OPPORTUNITIES

ORLANDO CONFERENCES

Construction Plans, Specifications and Ethics for Civil Engineers May 16-17, 2011

This seminar will present the variety of dewatering and groundwater control methods available. Topics will include the conditions where different dewatering methods are effective, site subsurface investigations for dewatering projects, including pumping tests; analysis and design of dewatering systems using analytical methods; potential side effects from dewatering; practical applications of dewatering for construction and remediation of contaminated sites, as well as various cut-off methods for providing groundwater exclusion. Both theory and practice will be discussed, with actual case histories.

Pumping Systems Design for Civil Engineers May 19-20, 2011

This seminar presents the basics of pumping system design and specification for civil engineers. It emphasizes the application of pumping systems in municipal water and wastewater systems. Topics covered include: pump and system hydraulics; centrifugal pump selection; interpretation of manufacturer's pump head-capacity curves; types of pumping stations; series and parallel operation; variable speed systems; friction losses in sludge pumping; wet well design; specifying of pumps; shop drawing review considerations; and some common pump operating problems.

Financial Management for the Professional Engineer June 16-17, 2011

One of the most common concerns of managers and leaders of architectural, engineering and planning firms is understanding and managing the financial health of their practice. Learning to evaluate financial performance through interpretation of income statements, balance sheets, cash flow statements, and project reports is critical to their personal success as well as the success of the business. However, managers have limited access to training programs which can provide the skills to be effective financial managers. This seminar teaches the design professional how to read and interpret the income statement, including gross revenue, net revenue, direct and reimbursable expenses, indirect expenses, net profit before taxes, depreciation, gross profit and net profit after taxes. It examines the primary benchmarks of performance: multiplier, utilization rate, direct personal expense ratio, and overhead. In addition, the seminar examines the balance sheet components of assets (current, fixed and other), liabilities (current and long-term loans), and stakeholder equity. Important benchmarks such as current ratio, quick ratio, receivable turn, aging receivables, and debt to equity ratio are also explored.

Design and Operation of Bioreactor Landfills June 23-24, 2011

The operation of municipal solid waste landfills as bioreactors offers significant environmental and financial benefits. The number of MSW landfills operated as bioreactors is gradually increasing. However, guidelines for design, operation, and monitoring of bioreactor landfills are scant. This short course will focus on the regulatory, design, operational, and monitoring aspects of bioreactor landfills.

ADVERTISE WITH US

We would love to have you join us at a corporate sponsor.

Reach hundreds of Central Florida businesses and individuals each month by advertising in the East Central Branch ASCE monthly newsletter.

1 year, business card, \$250 1 month, 1 page, \$200 1 month, ½ page, \$100 1 month, ¼ page, \$50

If interested, please contact Nancy Cortes at:
cortes@pbworld.com



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MARK YOUR CALENDARS – MAY 2011

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
8	9	10	11	12	13 Annual Scholarship Golf Tournament	14
15	16	17 Legislative Update 1 with Representative Stephen Precourt, P.E.	18	19 Engineer's Role in Storm Pipe Construction	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

ASCE's mission is to provide essential value to our members, their careers, our partners and the public by developing leadership, advancing technology, advocating lifelong learning and promoting the profession.

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