

President's Message

Greetings from ASCE Cincinnati! I hope 2008 promises to be as successful and productive as 2007. We have had a successful program year to date, and are excited about the remainder of this year's meetings. Our fall meetings included discussions about ASCE's Policy 465, which states that in the future, education beyond the baccalaureate degree will be necessary to practice at the professional level. In addition we have visited the sites of the Ascent at Roebling's Bridge the Daniel Libeskind-designed residential structure in Covington, and the new Bank Of Kentucky Center at Northern Kentucky University.

Our Spring meetings promise to be exciting as well. This month, we will be touring the high steel trusses over the rotunda at Union Terminal. In March we will be having our joint meeting with the Geotechnical Group. A full schedule of the remainder of our meetings is listed on the last page.



Michael Bruns ASCE Cincinnati Section President

As a reminder, our website (<http://sections.asce.org/cincinnati/>) provides a quick and easy way to learn about upcoming events and other news. Also, advertising is available for our webpage and upcoming newsletters. The cost is \$75 for the first year and \$50 to renew each additional year. Meeting sponsorship is also available for \$175. Sponsorship of a meeting entitles your company to set up a booth at the meeting and to have your company's information contained within the meeting flyer. There is also a location on the webpage devoted to employment opportunities. If your company would like to advertise or to post a job opening, please email us at: asce_cincy@yahoo.com.

It is a pleasure to serve as President of the Cincinnati Section of ASCE. Please remember that the officers are here to help in any way we can, so please feel free to contact us. I hope to see you at an upcoming meeting!

Mike Bruns
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ASCE Policy Statement 465 Update

ASCE's Committee on Academic Prerequisites for Professional Practice (CAP³) has been progressively refining the proposed program to "raise the bar" for professional practice. The National Society of Professional Engineers (NSPE), the National Council of Examiners for Engineering & Surveying (NCEES), and the National Academy of Engineering (NAE) has joined in the advocacy.

ASCE released the Second Edition of the Body of Knowledge on February 19, 2008 at a special event at the National Academy of Engineering. Key points about Policy 465 are listed below:

1. Policy Statement 465 (PS 465) outlines the preparation required for entry into **tomorrow's** practice of civil engineering at the professional level. Civil engineers face an increasingly complex world requiring more **professional breadth** and **specialization**. PS465 advances the concept of a profession. A profession can be defined by cooperative organization, an ethic of professional service, and a body of knowledge.
2. The "**bottom-line**" issue addressed by PS 465 is that "It is evident that the exploding body of science and engineering knowledge cannot be accommodated within the context of the traditional four year baccalaureate degree" (*Educating the Engineering of 2020, National Academy of Engineering 2005*). PS 465 is in a ten to fifteen year **implementation stage**.
3. The Civil Engineering Body of Knowledge (BOK) is the **foundation**—everything builds on it. The BOK defines the knowledge, skills, and attitudes necessary to **enter** the practice of civil engineering at the professional level -- and is described in *Civil Engineering BOK for the 21st Century: Preparing the Civil Engineer for the Future* (see www.asce.org/raisethebar).
4. To develop professionals, the BOK embraces 5 big ideas: (1) fundamentals in math, science, and engineering science, (2) technical breadth, (3) breadth in the humanities and social sciences, (4) professional practice breadth, and (5) technical depth or specialization.
5. The 1st Edition of the BOK (BOK1) consists of **15 outcomes**. A 2nd Edition was released on February 19, 2008. According to BOK1, those entering the profession should be able to::

Technical

- Apply knowledge of math, science and engineering.
- Apply knowledge in a specialized area related to civil engineering.
- Design and conduct experiments as well as to analyze and interpret data.
- Design a system, component or process to meet desired needs.
- Identify, formulate and solve engineering problems.
- Use techniques and modern engineering tools necessary for engineering practice.
- Understand the elements of project, construction and asset management.

Professional

- Function on multidisciplinary teams.
- Understand professional and ethical responsibilities.
- Communicate effectively.
- Know contemporary issues.
- Understand the impact of engineering solutions in a global and societal context.
- Recognize the need for and engage in lifelong learning.
- Understand business, public policy and administration fundamentals.
- Understand the role of a leader and leadership principles and attitudes.

6. ASCE PS 465 states that the BOK should be fulfilled by obtaining (1) a Bachelor's degree in civil engineering, (2) a Master's degree or approximately 30 acceptable credits, and (3) experience. This is referred to as "B + M/30 & E." "B + M/30" represents several different, but related paths to fulfill the formal educational component of the BOK (see next section). The "E" refers to progressive, structured engineering experience which, when combined with the educational requirements, **results in attainment of the requisite Civil Engineering Body of Knowledge**
7. There is consistency between ASCE's BOK fulfillment paths and the NCEES Model Law paths for the licensure of all engineers. The NCEES Model Law states that (as of January 1, 2015) admission to an 8-hour written examination in the principles/practice of engineering will require:
- (1) An engineer intern with a bachelor's degree, with an additional 30 credits of acceptable upper-level undergraduate or graduate-level coursework from approved course providers, and with a specific record of an additional 4 years or more of progressive experience on engineering projects of a grade and a character which indicate to the board that the applicant may be competent to practice engineering.
 - (2) An engineer intern with a master's degree in engineering from an institution that offers EAC/ABET-accredited programs, or the equivalent, and with a specific record of an additional 3 years or more of progressive experience on engineering projects of a grade and a character which indicate to the board that the applicant may be competent to practice engineering.
8. The 1st Edition of the BOK was reviewed by a new Body of Knowledge Committee over the last two years. The committee refined the educational outcomes and developed an approach that states the level of learning expected for each outcome and provides detailed explanations of the outcomes. The committee distributed a draft of the 2nd Edition of the BOK for comment by the civil engineering community in July 2007 (see www.asce.org/raisethebar) – to be released in final form on February 19, 2008 at an event at the National Academy of Engineering.

Questions, comments, or suggestions, please contact Jeffrey S. Russell at russell@engr.wisc.edu



Cincinnati State Student Chapter Established

Congratulations are in order for the new ASCE Student Chapter at Cincinnati State Community and Technical College. In November 2007, the school's ASCE Student Club was converted from a Student Club to an ASCE Student Chapter. The chapter's faculty advisor is Carol Moorman.

Schulte, Cromwell win ESC Awards

ASCE Cincinnati sends its congratulatory wishes to Michael Schulte of Truman P. Young & Associates and Julie Cromwell of THP Limited. Both of these past-presidents of the Cincinnati Section were presented with awards by the Engineers and Scientists of Cincinnati (ESC).

Mr. Schulte was awarded the 2007 Professional Accomplishment Award in Consulting.

Ms. Cromwell was awarded the 2007 Young Engineer of the Year.

2008 Life Members

Life Member status is an honor awarded to members who have made a lifetime commitment to ASCE and the civil engineering profession by remaining members for the full length of their professional careers. To obtain Life Member status, ASCE Members, Associate Members or Affiliate Members must meet age requirements and the following criteria:

Have paid dues in any membership grade except student member for at least thirty years.

Have had ten years continuous membership immediately preceding the attainment of Life Member status.

Life Member status exempts a member from further payment of membership dues. The Cincinnati Section is honored to recognize the following members that have achieved Life Member status in 2008:

Larry A. Jeffers, P.E.

Richard R. Lenz, P.E.

Denis J. Lussier

Richard M. Males, PhD

Carl D. Walker, P.E.

James T. Young, P.E

Presidential Lifetime Achievement Nominations

It is time to nominate a candidate for the 2008 ASCE Presidential Lifetime Achievement Award. The Cincinnati Section of ASCE recognizes a distinguished member who has significantly contributed to the civil engineering profession. This is your chance to take advantage of the opportunity to recognize someone who has dedicated themselves both professionally and personally to our profession and our community. Past nominees can be considered, but you must resubmit an updated nomination form. In 2007, **Bill Schrudde of KZF Design** earned the award. Other past award winners include Michael Basehart, John Niehaus, and Andrew Bodosci. Please take the time to nominate a worthy professional. The current nomination form is attached to this newsletter and must be submitted to Mike Bruns no later than **March 31st, 2008**. We look forward to receiving your nominations!



*Bill Schrudde—KZF Design
2007 Lifetime Achievement
Award Winner*

Join Order of the Engineer

The Cincinnati Section of ASCE will be hosting our fifth Order of the Engineer ceremony during our **MAY MEETING** (tentatively scheduled for May 15, 2008). If you are interested in joining (the only lifetime cost is \$10 for the ring) please send an email to Julie Cromwell at jcromwell@thpltd.com **before April 28, 2008**. Please include the ring size of your fifth finger (the little one) on your working hand. If you do not know your size, please measure the circumference of your finger or better yet attend the February, March and April meetings and get your finger measured! We are also taking requests to replace lost rings or exchange those that no longer fit. Check the website: <http://sections.asce.org/cincinnati/> and look out for our meeting flyer for location and time.

FAQs (Taken from: www.order-of-the-engineer.org)

What is the Order of the Engineer?

The Order is the roster of engineers in the United States who have participated in an Engineer's Ring Ceremony and who have publicly accepted the "Obligation of an Engineer."

What is the purpose of the Order and its "Obligation"?

The purpose is to stimulate formal public recognition by engineers in the United States of two basic principles. These principles are that (1) the primary purpose of engineering is service to the public, and (2) all members of the engineering profession share a common bond.

What is the "Obligation of an Engineer"?

The Obligation is the [formal statement](#) of an engineer's responsibilities to the public and to the profession; the Obligation is publicly accepted by an engineer during induction at a Ring Ceremony. The Obligation is similar to the National Society of Professional Engineers' Engineer's Creed, the Engineers' Council for Professional Development's Canon, and the Canadian Ritual of the Calling of an Engineer.

What is an Engineer's Ring Ceremony?

The Ring Ceremony is the public induction of candidates into the Order of the Engineer, during which the engineer candidates formally accept the [Obligation of an Engineer](#) and receive a stainless steel ring to be worn as a symbol on the fifth finger of the working hand.

What is an Engineer's Ring?

The Engineer's Ring in the United States is a stainless steel ring, worn on the fifth finger of the working hand by engineers who have accepted the Obligation of an Engineer in a Ring Ceremony. In Canada, the Engineer's Ring is a faceted ring accepted by engineers inducted into the Ritual of the Calling of an Engineer in a private ceremony.

Who can participate in an Engineer's Ring Ceremony?

Any engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. Students enrolled in ABET-accredited engineering degree programs are eligible if they are within two academic terms. Other candidates may be considered eligible because of equivalent credentials, subject to the approval of the National Board of Governors.

Anyone may witness the induction ceremony. Families are often invited as guests.

Geotechnical Group Call for Papers



OCTOBER 17, 2008 CINCINNATI, OHIO

CALL FOR PAPERS

TOPIC: "Urban Construction"

The Cincinnati Section of the ASCE Geotechnical group is issuing this Call for Papers with emphasis on "Urban Construction" for the 39th Annual Ohio River Valley Soils Seminar to be held on October 17, 2008. Papers may include geotechnical design, instrumentation, investigation, construction, case histories, etc. Pertinent topics may include, but will not be limited to, roadways, buildings, waterfront development, tunnels, predicted-vs-actual performance, and sustainable construction. Papers should highlight innovative techniques for solving geotechnical problems under the constraints of an urban environment. The goal of this seminar is to provide geotechnical engineers, geologists, contractors, material suppliers, and other geotechnical practitioners an opportunity to share unique experiences and state-of-the-art practices.

The deadline for abstract submittal is May 2, 2008. Abstracts should be limited to one typewritten page. Authors will be notified of acceptance by June 13, 2008 with final papers due by August 1, 2008.

Any questions or abstracts should be submitted to:

Ron Lech, P.E.
H.C. Nutting Company
611 Lunken Park Drive
Cincinnati, Ohio 45226
Phone# (513) 321-5816 x. 423
Fax# (513) 321-4540
E-mail: rlech@hcnutting.com

Earn 2 CPD Credits—Officers and Committee Members Needed !

Help us help you! We are currently seeking members who would be interested in being a section officer or committee member. In order to maintain continuity, section officers typically hold the offices of Secretary, Treasurer, Vice-President, and then President. We are also looking for members interested in joining our Membership, Education Outreach, or Programming Committees.

Involvement in your section gives you a chance to meet other members in a more social atmosphere and your efforts are invaluable to the section. In addition, Ohio allows a credit of 2 continuing professional development (CPD) hours for each year of service as an officer or active committee member of a professional or technical society. For more information contact Mike Bruns at 513-861-5655 or email to

mbruns@trumanpyoung.com.

Brain Teaser

It's a new season for the Brain Teaser and we're making them a little harder. The winner gets a \$50 gift certificate to a local restaurant. Prizes will be given to the first person to submit the correct answers to asce_cincy@yahoo.com. Winners will be announced in the next newsletter. Please have your answers submitted by 4/30/08.


- 1) A large sheet of paper is 0.1 mm thick. An engineer amuses herself by tearing it in half and putting both pieces together, and then tearing those into four sheets, and repeating the process until she has done it 25 times. How high is the stack of paper now?
 - A) As thick as a book
 - B) As high as a man
 - C) As high as a house
 - D) As high as a mountain

- 2) Find two numbers so that the square of the first plus the second, added to the square of the second plus the first equals 238.

Update your ASCE E-mail

If you have not already, please provide ASCE with your e-mail address. We can deliver our newsletters and upcoming meeting announcements to you via e-mail. E-delivery saves our section hundreds of dollars in postage and printing costs each month, and ensures the latest section information gets to you as quickly as possible.

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Upcoming Events of Interest

March 20, 2008	Northern Kentucky Sanitation District 1 Facility Tour
April 8, 2008	Combined Meeting with Geotechnical Section
May 15, 2008	ASCE Awards Meeting