

Message from the President



Things keep getting better. Our April 10th meeting was a joint meeting with the ITE Section. A total of 141 people attended including 100 from ASCE and 41 from ITE. We were fortunate to have Henry Kay, Director of Planning at MTA, talk to us about the Maryland Transit Administration's master plan for new mass transit initiatives in Maryland. Following his talk, we had our door prize drawings with the featured prizes of two \$50 gift certificates to Ruth Chris Steakhouse courtesy of Wallace, Montgomery and Associates. We then tried something new. We opened the bar after the meeting and offered one free drink to those who wished to hang around and socialize. Approximately 35 people took advantage of the extended meeting.

Elections for Board Members - Please Vote:

You will all soon receive, in a separate mailing, ballot of officers nominated for the 2002-2003 year. Please vote. Also, please return the ballot and offer to help guide the Maryland Section of ASCE by volunteering for one of our committees.

May - Awards Night:

This coming month, at our May 8th meeting, we will recognize

our 2002 Award Winners including Young Engineer of the Year, Outstanding Civil Engineer, Meritorious Service Award, Outstanding Educator of the Year, Outstanding Small Project Award and Outstanding Large Project Award. Please join us in congratulating these award winners as well as our new 2002 Life Members and our three college scholarship winners.

June 13th - An Evening on the USS Constellation:

On Thursday, June 13th, we will try something new. We will hold our June meeting on the decks of the USS Constellation in the Inner Harbor. We will have an open bar consisting of beer and wine along with a great dinner. The exact menu will be announced later (due to the scarcity and thus high prices for crabs, we probably will not have steamed crabs). Whatever, the final menu, join us for three great hours beginning at 6 pm on one

of the oldest US Naval warships.

Special September Celebration:

In honor of ASCE's 150th Anniversary, the Maryland Section is beginning planning for a "Celebration of Civil Engineering in Maryland" Gala Evening in September. We have reserved the engineers club for Friday, September 13th from 6 pm until whenever... Plan on bringing your spouse or a significant other for a great celebration. We hope to invite as our guests, all of the surviving former Presidents of the ASCE Maryland Section. We hope to show some of the great engineering achievements and ASCE Section award winners throughout the years. More details will follow as we solidify our plans.

I hope to see you May 8th at our Annual Awards Meeting!

Joel

SECTION ANNOUNCEMENTS



President Robert W. Bein with Dr. Sabnis at the ASCE Washington office

Dr. Gajanan M. Sabnis, P.E., FASCE, a member of the National Capital Section and currently chair of the International Affairs Committee (IAC) of the Section, has successfully recruited in excess of 150 new members for our Society to celebrate the 150th anniversary of ASCE. He has also excited more than 1,500 students to join the society. I believe that this is a big news item and deserves attention of our membership. This was done in response to the challenge of the ASCE President Robert W. Bein's Member-get-a-member campaign. Dr. Sabnis was a recipient of member recruitment award and of the Edmund Friedman Professional Achievement Award in 1999.

Dr. Sabnis deserves attention of our section members for this achievement. We extend our hearty congratulations to him on his success.

June Meeting

For our annual Members Appreciation Meeting in June, ASCE Maryland Section is pleased to announce a wonderful evening on the Harbor. ASCE has scheduled an evening on the USS Constellation in the Baltimore Harbor. The evening will include a cocktail hour and a catered buffet dinner. Don't miss this event and a chance to see Joel shoot one of the ships cannons. The following are the specifics:

Location

USS Constellation, Inner Harbor, Baltimore, MD

Date

THURSDAY, June 13th

Time

6:00 pm to 9:00 pm

Cocktails

Beer and Wine

Dinner

Catered Buffet Dinner



NATIONAL ASCE

ASCE Policy 465: Academic Prerequisites for Licensure and Professional Practice

By the ASCE Task Committee on Academic Prerequisites for Professional Practice (TCAP³)

How Did We Get Here?

In October 1998, the ASCE Board of Direction adopted Policy Statement 465, which supported "the concept of the master's degree as the First Professional Degree (FPD) for the practice of civil engineering at the professional level." This policy generated considerable discussion among the ASCE membership. As a result of this discussion, the ASCE Board formed the Task Committee for the First Professional Degree (TCFPD) in January 1999 and charged it with "developing a vision of full realization of ASCE Policy Statement 465 along with a strategy for achieving this vision."

The TCFPD researched the education, experience, licensing and certification requirements of other professions; studied the history and forms of civil engineering education in the US and elsewhere; and reviewed current and future challenges to and opportunities for civil engineers. Their work resulted in a report entitled *Engineering the Future of Civil Engineering* (available on www.asce.org) and Revised Policy 465: Academic Prerequisites for Licensure and Professional Practice. The essence of the policy includes the following (note: the underlined text indicates a change to the original Policy 465):

The American Society of Civil Engineers (ASCE) supports the concept of the Master's degree or Equivalent as a prerequisite for licensure and the practice of civil engineering at a professional level.

In October 2001, the ASCE Board of Direction unanimously adopted Revised Policy 465 while at the same time recognizing that this policy will not be implemented overnight. It will require considerable effort to achieve full realization of the policy's intent, but the positive consequences for the profession will be immeasurable.

Things Aren't What They Use To Be

The basis for the policy is rooted in the significant and rapid changes that have occurred in the civil engineering profession. Some of these changes include the following:

- Onset of globalization
- Rapid rise in information technology
- Diversification of society
- Explosion of knowledge and technology in engineering and construction
- Enhanced public awareness and involvement in engineered projects
- Complexity of civil infrastructure systems within the United States

These changes, along with a national trend of reduced credit hours for the bachelor's degree, have created an untenable situation. Civil engineers are expected to possess simultaneously greater breadth of capability and specialized technical competence than that required of previous generations. With fewer credits in the civil engineering curriculum, it will become increasingly difficult for civil engineers to do more with less. Enter Policy 465.

[Editor's Note]

This article was prepared by ASCE National.

ASCE requested the article be placed in each section newsletter.


Do you have a comment or rebuttal. Please write to or contact the editor and we will try to publish your comments in future newsletters.

See contact information on back page.

As With Competent Engineering . . . The WHY question?

The most frequently asked question within the profession regarding this important question is—is this change merely for the sake of change? No, it is not. With an eye toward the future of our profession, requiring education beyond the baccalaureate degree for the practice of civil engineering is consistent with other learned professions. The body of knowledge gained, and the skills developed in the formal civil engineering education process, are NOT significantly less than the comparable knowledge and skills required in other professions such as law, medicine, accounting, pharmacy, occupational therapy and others. While four years of formal schooling were considered the standard 100 years ago, over the course of the 20th century, other professions have lengthened their educational requirements as a result of the advances in knowledge and the other changes mentioned above. Engineering, however, has not.

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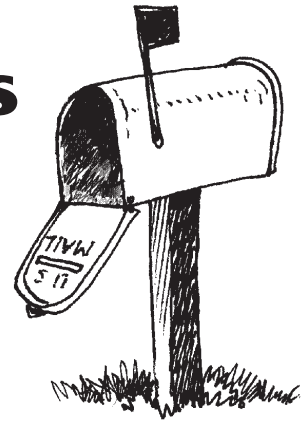
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May MD Section ASCE Newsletter

Younger Member News

by Kelly Brennan, Younger Member Co-Chair
<http://www.asce.org/gsd/sections/mdasce/ym.htm>



It's been a busy spring for the Younger Members and the month of May is no exception. If you've been considering joining the ASCE YM, now is the time! Remember, there's no obligation to join. We hope that you'll come to an event, meet lots of new people and then want to join on your own!

Upcoming May Events

BWI Airport Tour, May 4th & May 11th:

The ASCE Younger Members will host a tour of the construction at BWI Airport. The tours are scheduled for Saturday, May 4th & Saturday, May 11th at 9am (both tours will be the same). There will be a limit of 15 people per tour for safety reasons. This is a FREE event (including a FREE pizza and soda lunch after the tour) led by Chris Brown of Kiewit Construction and sponsored by the ASCE MD Section Younger Members. Only dues paying Maryland Section Members will be allowed to participate (this includes students!), and reservations will be granted on a first come, first serve basis. If necessary, we ask that you please cancel reservations at least two weeks prior to the event so that others may participate. Participants must wear: hard hat, boots, safety glasses, reflective vest, jeans, no sleeveless shirts (short sleeves okay). If the attire requirements are not satisfied, you will not be allowed to participate. If you do not have the above equipment, please let Mandy know when you make your reservation and appropriate safety wear will be provided if available. We hope you

can make it to this tour which promises to be very exciting! Please RSVP to Mandy at mandyc@cablespeed.com.
Directions: From Route 195 continue towards the terminal, past the taxi stand turn right at "Authorized Vehicles Only" sign (there is also a Kiewit sign in this location). If you reach the ramp to upper level roadway, you've gone too far.

Annual Boy Scout Service Project, May 17th-18th:

Please join us for the American Society of Civil Engineers' Annual Service Project!!! We will be volunteering at Broad Creek Memorial Scout Reservation, a Boy Scout Summer Camp in Harford County. The event will take place on May 17th-18th 2002. The Boy Scouts have offered us a cabin for the weekend in return for our efforts! Meals will be provided for all participants compliments of the Maryland Section ASCE, and our excellent camp chef, Chris Brown! As always, no experience or special tools necessary. Just come ready to work, have fun and eat well! The details of our projects have not yet been planned, but past projects have included small building construction/reconstruction and concrete pours! Please contact Chris Brown at cbrown@ny.kiewit.com for more information. Directions to Camp Saffran, Cole Lodge:
<http://www.intandem.com/BAC/BCMSR/BCLocate.html>

May Happy Hour, Thursday, May 23rd, 5:30 pm – 7:00 pm:

Come out and meet other Younger Members in a social setting! ASCE will

provide free appetizers to munch on. Come join us at the Wharf Rat, Camden Yards on Thursday, May 23rd from 5:30 to 7:00 pm. Its located on Pratt St. near the convention center and Camden Yards. Its walking distance from several large downtown engineering firms, so hopefully we'll have a large attendance!

Wharf Rat Camden Yards, Oliver's Breweries Ltd., 206 West Pratt Street, Baltimore, MD 21201, Phone: 410-244-8900

Zoom Into Engineering

The Younger Member Group continues to develop its Outreach Program to expose K-12 students to the civil engineering profession. A "Zoom Into Engineering" luncheon was held at Parsons Brinckerhoff on March 27th. Over 20 people were in attendance. Everyone was excited about the new program and is anxious to try out the tools they learned. We have written several local elementary schools to see if they would be interested in having engineers come to their schools. If you know of an elementary school that would be interested in this program, please contact Kelly Brennan at brennank@pbworld.com or (410) 385-4162. Also, upcoming brown bag luncheons are planned.

Several people indicated an interest in

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Younger Member News Continued from page 3

the program, but were unable to attend the brown bag lunch. If your firm is interested in hosting a Zoom luncheon, please contact Kelly Brennan at brennank@pbworld.com to arrange a date and time.

Outreach Activities

The Outreach Program Committee has been participating in several local school events. Mandy Cody was a judge at Maryland State Balsa Wood Bridge Competition on February 16th at the Baltimore Museum of Industry. Kelly Brennan participated at a "Women in Engineering Seminar" at Baltimore Polytechnic High School on March 22nd. Mandy Cody (KCI), Joe Kittner (JMT), Jeff Robbert (JMT), Mitch Dobres (Jacobs), Debra Raynor (SHA), Cristina Baltazar (Corman Construction), and Jen Wood (Greenhorne & O'Mara) all participated in "Ask an Engineer Nights" held at the University of Maryland and Morgan State University in March. Over 35 students attended the sessions.

We receive phone calls from various schools looking for various speakers, women engineers, etc. We are trying to compile a database of those interested in

volunteer activities. We are planning more visits to area schools and a possible engineering activity day at a local mall. If you would like to volunteer for these type of events, please contact the Outreach Chairperson, Kelly Brennan.

Call for Officers!

The ASCE YM Committee has several officer positions available for next fall. If you have been considering getting more involved with the Younger Members, now is your chance! Some companies require you to be an active board or committee member to have your meeting fees reimbursed. This is a fun way to meet your commitment without taking too much time! Its also a great way to get acquainted with ASCE or to meet other YM's in the area.

Fall 2002 Younger Member Chairperson – Kelly Brennan, Parsons Brinckerhoff

Vice-Chairperson: Open, this position involves helping the Chairperson develop the YM program. Anyone who has new ideas or suggestions for the YM program would be great in this position. No YM experience necessary! We welcome new members to become more involved!

Social Chairperson: Open, this person should be outgoing and like to meet new people. This position involves organizing a few happy hours or other social events throughout the year. No experience necessary! We welcome new members to become more involved!

Newsletter Editor: Open, This is a simple way to get involved with ASCE YM and learn what activities are going on at the same time. I have held this position for two years and its time to pass it along to someone new. This was a great way to meet new people and become more active in ASCE without a big time commitment. No YM experience necessary! We welcome new members to become more involved!

If you are interested in any of the above positions, please contact Kelly Brennan at brennank@pbworld.com (fax: 410 727-4608) or Mandy Cody at mandyc@cablespeed.com. In your email/fax, please provide your name, title, company, phone number, email address, and position you are interested in. BRIEFLY describe (1 paragraph max.) why you would like to hold the position. If you have any questions, please contact Mandy or Kelly directly.

The ASCE Engineering News is a monthly publication, except July and August, published

by the Maryland Section of the American Society of Civil Engineers and is provided

free to Section, life and student members. Comments or questions should be directed to the Editor.

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The TCFPD defined the practice of civil engineering at the professional level to mean practice as a licensed Professional Engineer (PE). They further defined admission to the practice of civil engineering at the professional level to mean professional engineering licensing, which requires:

- A body of specialized knowledge as reflected by a combination of a baccalaureate degree and a master's or equivalent (MOE);
- Appropriate experience; and
- A commitment to life long learning.

The required body of specialized knowledge includes a technical core, technical electives, a non-technical core, and technical and non-technical courses to support individual career objectives. The Task Committee on Academic Prerequisites for Professional Practice (TCAP³)—known as "TEE-CAP-CUBED"—is currently working on further defining the Body of Knowledge (BOK) and the MOE.

How Does This Policy Impact Me?

A primary goal of the policy is to change the state licensing laws or rules in the future to require the MOE as a prerequisite for taking the PE exam. There are 55 jurisdictions, each self-regulated. The National Council of Examiners of Engineering and Surveying (NCEES) are currently considering modify-

ing their model law for licensure; a number of alternative models are being considered. ASCE is currently working with NCEES and is advocating that the MOE be incorporated into the forthcoming model law.

Given ASCE's goal and the movement by NCEES, how is the policy likely to be implemented and what will be the impact? For starters, any currently licensed engineer will not be affected by this policy. Civil engineers who do not have an MOE will not be required to obtain one to remain licensed. It is anticipated that each state will select a date in the future by which the MOE will be required as a prerequisite for taking the PE exam, and thus the policy will affect future practitioners.

What about current civil engineering students in the pipeline? For the next 15-20 years, these students will not be required to have an MOE, either. These students will, however, be strongly encouraged to pursue additional education beyond their bachelor's degree.

TCAP³ is currently trying to identify two to four states willing to implement this policy in the next five years. It is anticipated that once a few states adopt the policy, additional states will participate. This was the case with accounting, which is in the later stages of implementing a 150-credit-hour requirement for professional practice. The effort, which began in the mid-1980s, has been successfully adopted by over 40 states, with full compliance expected by 2010.

Let's Be Realistic ... How Long is it going to take to implement?

TCAP³ and ASCE have a vision for an enhanced role for civil engineers in the year 2030 and beyond. This policy is directed toward the future of our profession. The implementation of this concept will not happen overnight. ASCE cannot mandate how and when it will be implemented, or who will implement it. To be sure, ASCE will be an active partner with ASCE members, other engineering professions, the National Society of Professional Engineers (NSPE), the National Council of Examiners of Engineering and Surveying (NCEES), state licensing boards, the Accreditation Board for Engineering and Technology (ABET), deans, department heads/chairs, and faculty to achieve this policy directive. Still, the ultimate full implementation will probably not occur for 20 or more years. However, this concept is a legacy for future generations of civil engineers. It will provide tomorrow's civil engineer with a body of knowledge, appropriate experience, and overall outlook to be leaders and integrators of the engineered environment.

Questions

For more information, please contact Jeff Russell at Russell@engr.wisc.edu, Stu Walesh at STUWALESH@aol.com or Tom Lenox at tlenox@asce.org.

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410-728-2900 • mkrupsaw@rkkengineers.com

Editor **Frank Kaul – Wallace, Montgomery & Associates, LLP**
110 West Road, Suite 300, Towson, MD 21204 • 410-494-9093
Fax 410-825-5714 • F_Kaul@wallacemontgomery.com

Maryland Section
American Society of Civil Engineers
11 W. Mount Vernon Place
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DATED MATERIAL INSIDE

– MEETING NOTICE – AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: Wednesday, May 8, 2002
Time: 6:00 P.M. — Cocktails
7:00 P.M. — Dinner
8:00 P.M. — Meeting

Place: The Engineering Center;
11 W. Mount Vernon Place

Speaker: Dr. Robert Healy
Committee Member, MD Section ASCE Awards

Program: Maryland Section ASCE 2002 Awards
Abstract: Come join us while we acknowledge the 2002 Award Recipients and Life Members. Bob will introduce us to the 2002 scholarship winners from Johns Hopkins University, Morgan State and the University of Maryland, College Park, as well as the life members and present the Maryland Section Awards for: Civil Engineer of the Year, Young Engineer of the Year, Meritorious Service, Outstanding Educator, Outstanding Civil Engineering Achievement – Less than \$15 Million, Outstanding Civil Engineering Achievement – Greater than \$15 Million

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Guests:	\$35.00
Non-Members:	\$35.00
Non-Dues Paying Members (MD Section):	\$35.00
Students:	\$14.00

Reservations: _____ (Total Members & Guests)

- Reservations will be considered firm and billed unless cancelled by not later than Monday noon prior to meeting.
- Cancellations must be submitted via mail or fax.
- Reservations can only be held until 6:45 p.m.
- Seats will be available for dinner after 6:45 on a first-come first-serve basis.
- If you are unable to attend dinner, you are welcome to attend the meeting at 8:00 p.m.
- Checks should be made payable to:

Engineering Society of Baltimore, Inc.

- All reservations and cancellations should be sent to:
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11 W. Mount Vernon Place, Baltimore, MD 21201-5190
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email: stephanie@esb.org
Attention: Ms. Stephanie Hill

Name: _____ Phone: _____

Guests: _____

Mail, fax or email by: May 6, 2002, 12:00 noon

FUTURE MEETING DATES:
June 12, 2002
September 11, 2002