



Younger Member Newsletter

American Society of Civil Engineers

Spring '05



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transition to our new committee structure by October 2006. Special thanks to Blaine Leonard, PE, Zone IV Vice President and Governance Restructuring Implementation Committee Past Chair, for meeting with our committee to provide valuable insight into ASCE's Governance Implementation.

CYM is working with the Los Angeles Section 2005 Annual Conference Planning Committee to finalize the Younger Member program. The entire Annual Conference program has been overhauled including the YM program. Younger Members will be integrated with the rest of the Annual Conference, instead of just attending the YM Leadership Symposium, as in the past. Younger Members will begin meeting independently on the morning of Wednesday, October 26th and with the rest of the Annual Conference attendees later that afternoon and balance of the conference program through Saturday, October 29th. There will be a registration fee for Younger Members due to the additional sessions and field trips, so please budget accordingly. Details will be provided in the following months by e-mail, so please be on the lookout.

Issue Quote

"Before everything else, getting ready is the secret of success."

Henry Ford (1863-1947)

Message from the CYM Chair



Aloha. The Committee on Younger Members (CYM) held its 2005 Spring meeting on April 1st and 2nd in Crystal Bay, NV. Thanks to Nancy Bernson for making the arrangements and to

Randy Over, PE, Zone II Vice President, for providing valuable insight as the Council of Vice President's CYM liaison.

CYM discussed the future of our committee in relation to the ASCE Governance restructuring. After a fruitful discussion, CYM decided to reorganize our committee to better meet the goals of our Visioning Plan. We drafted a preliminary restructuring and transition plan. We are planning to

If you work for an employer that not only supports but also encourages your ASCE involvement, please consider nominating your firm or agency for the Employer Recognition Award. Although most employers may not expect recognition for their support, recognition may encourage the chance of future support. The nomination form is available on the CYM page on the ASCE National website and in the CYM eRoom. **Nominations are due on August 1, 2005.**

As summer approaches and the weather improves, please consider conducting a community service project through your

respective YM Groups. You not only help your communities but also improve the image of engineers.

CYM welcomes the two newest members to the committee. **Gregory Kuklinski**, Lehigh Valley Section will succeed Christopher Garlick as Zone I Representative, while **Loreen Choate**, East Central Branch, Florida Section will succeed Michael Shumsky as At-Large Member. Transitions of duties will begin shortly with Greg and Loreen officially beginning their four-year terms on October 1, 2005.

Finally, if you or your YM Group has an event that they would like to share with the rest of the Younger Members, please send Michael Shumsky, YM Newsletter Editor a short article with photos, if possible, to include in our next newsletter. We can all learn from each other; therefore by sharing your projects you can help other YM Groups grow and flourish.

If you have any questions or concerns, feel free to contact any of the CYM Members. Our contact information is found on the last page of this newsletter.

Mahalo and Aloha,

Tony C.G. Lau, PE
Chair and Zone IV Representative
Committee on Younger Members

Wisconsin Section YMG Making Big Strides

By Nahid Afsari, CH2M Hill
Contributors: Laura Gerold, Tetra Tech MPS
Chuck Winter, Wagner Komurka Geotechnical Group
Troy Deibert, HNTB Corporation

The Wisconsin Section Younger Member Group (YMG) is making a name for itself! In the past two years, membership and participation has grown dramatically, likely due to the increased number and variety of activities. Activities have addressed member needs, provided community involvement, contributed to the overall Section, incorporated engineering students,

and created social outlets; all the time while having plain old fun!

In the past year, the Wisconsin Section YMG has addressed member needs by organizing study groups for both the civil and environmental PE exams, and conducting a series of seminars on relevant topics, such as financial planning, home purchasing, and public speaking.

The Wisconsin Section YMG has pursued, and continues to pursue many avenues for community involvement. The most notable is the creation of a K-12 outreach program, providing public school students a "real-world" perspective on the application of science and engineering through hands-on activities. Since January, YMG members, organized into elementary, middle and high-school teams, made over ten presentations in Milwaukee area schools, with many more planned this spring. Members also participated in the Future City competition, by mentoring teams from several local schools as well as helping organize and



Left to Right: Joanie Giuliani, Nahid Afsari, Cindy Condliff

judge the regional competition. The regional Mathcounts competition was not forgotten, with YMG members providing the majority of the judging and proctoring crew. Despite all this,

there was still time and enthusiasm to volunteer with the Salvation Army and plan upcoming activities with the Hunger Task Force.

YMG also recently contributed to the overall Wisconsin Section by organizing and facilitating its 2005 Spring Technical Conference. The conference showcased fourteen presentations that covered a wide spectrum of civil engineering topics and attracted 200 engineers from around the state. YMG plans this conference for the Section once every three years.

Even with all these activities on their plate, YMG still finds time for social events. Our two most-attended events are the annual University of Wisconsin Badger hockey game and the annual Milwaukee Brewers tailgate. These two events each typically draw 70 to 80 participants and half of them are civil engineering students from Wisconsin's five engineering schools.



Monthly "speak easies" at local pubs, participation in sports leagues (including a competitive kickball team), rafting & camping trips also provide much-needed outlets for

relief and fun!

In sum, the Wisconsin Section YMG is proud of the recent surge in interest, participation and enthusiasm of its members. The variety of activities attracts civil engineers from various backgrounds and interests, which in turn strengthens not only the organization and ASCE, but the local engineering community as well. By continuing to encourage participation and foster enthusiasm in its younger members, the Wisconsin Section YMG is looking forward to a bright future!

2005 Younger Member Councils

How Sweet Hershey Is!

By Greg Kuklinski, EIT, NERYMC Co-Chair

During the weekend of January 29 & 30, the Lehigh Valley and Central PA Section YMG Groups co-chaired the Northeast Regional Younger Member Council (NERYMC), held

in Hershey, PA. **Greg Kuklinski** (Lehigh Valley Section) and **Brehan McBride** (Central PA Section) were this year's co-chairs. The purpose of the council is to train new leaders in ASCE. The council also offered topics that covered the soft side of our profession to help its leaders refine and enhance their leadership and management skills. "NERYMC was a great opportunity to socialize with both the current and future ASCE leaders, while learning how the organization benefits its membership" says Philadelphia YMF member and CYM Corresponding Member **Michael McAtee**. There were approximately 50 Younger Members in attendance from Zone I, which extends from Maine to Washington, DC. Dr. David Veshosky and Dr. Kristen Sanford-Bernhardt, both of Lafayette College, gave an interactive presentation on "Ethics in the Workplace." Dr. Veshosky and Dr. Sanford-Bernhardt played two different engineering case studies that were shown on TV and then discussed at each individual table. Robert Cox, PE of Barry Isett and Associates gave a presentation on "The Importance of Networking for Business Development." He provided examples of what to do in various networking situations and had each of us think of creative ways to describe our companies in an interactive mock networking session. The NERYMC also had the opportunity to learn about "The Financial Aspects of an Engineering Firm" by Lynn Knepp of Gannett Fleming and heard first hand how ASCE works in government relations on Capitol Hill by Brian Pallasch of ASCE Staff in Washington, DC. Have you ever wondered how many insurance programs ASCE supports for its members? That one was just one of Nancy Berson's many ASCE questions in her annual, "JeopardASCE", the award-winning contest based on "Jeopardy" but without the parting gifts. I was happy to be part of the winning table and my beverage at home is staying cold because of our table prize!

Weston Ruthven of the Boston Society of Civil Engineers chaired our annual business meeting this year. Various resolutions were passed on governance restructuring,

choosing a 2007 host site and thanking various individuals who assisted in the conference. A special presentation was made to outgoing Zone I CYM Representative Christopher Garlick. He was presented with a calendar of various pictures of himself over the past four years, as well as a letter sent by Tony Lau, CYM Chair. Zone I has been more than thankful for having Chris be our spokesperson on CYM and having him generate YM interest in ASCE through greater participation in the NERYMC and other Section activities. As Tony said in his letter, "Since the time Chris chaired NERYMC in 2001, he has been active in promoting the importance of NERYMC for Zone I Younger Members. As Zone I Representative, his promotion of NERYMC has helped to nearly double the amount of delegates and increase the percentage of Zone I Younger Member



Left to Right: Jim Woodward, Christopher Garlick, Greg Kuklinski, Michael Duffy

Groups represented to nearly 100-percent."

On Friday and Saturday nights, NERYMC, WSBL and WSCL attended various social activities including attending the local Sports Bar

"Shakeys" on Friday night by taking the world famous Shakey shuttle. Saturday evening we attended a Hershey Bears Hockey Game and also went via bus to various bars and clubs in Downtown Harrisburg.

I would like to thank all the delegates for coming to represent your Section and/or Branch and I hope you left learning more

about ASCE and various leadership skills, including ethics and networking.

In the Land of the Mouse

By Sarah Greene, E.I., East Central Branch, Florida Section

Once again, sunny Orlando, FL was fortunate to host the Zone II Leadership Conference. Taking part in this event were Student Chapter, Section and Branch leaders and Younger Member Group representatives.

The Conference unofficially started Friday morning, (1/21) with seminars on Disaster Response Scenarios, and "Bringing Civil Engineering to Kids K-12". The Younger Members began the Conference with an introduction by ASCE President William Henry and the official start of the Zone II conference. Short introductions of key topics to be discussed in the conference were next, followed by an icebreaker at each table.

In our Younger Member break out session much discussion was placed on ASCE Policy 465 and it's implementation into practice. An informative presentation was given followed by a question and answer period. This policy is of much interest, since it is an underlining document to the Civil Engineering profession's future.

With all this learning and knowledge sharing we definitely needed some diversions. Being a resident of lovely Orlando, myself and other officers in the East Central Branch were able to direct all the attendees to some of what our city has to offer. These were found on Friday night at Adobe Gilas at Pointe Orlando and other fine establishments later in the evening. With the early morning sessions looming, we made sure to make the most of the evening.

Saturday was a full day for the Younger Members. YM attendees had sessions on Military Engineering, Leadership, ASCE restructuring, interaction with Student Members, roundtable discussions, just to name a few. When we dispersed into

roundtable discussions, many great ideas were exchanged among the members. That's a great thing about the conference, getting great ideas on how to better your Section while interacting with fellow members.

Saturday also proved to be quite strenuous so we decided to relax again, this time at Universal Studios Citywalk where we had a



great turnout. Most started out at Pat O'Brien's enjoying their famous New Orleans style hurricanes,

then ventured to Bob Marley's for a little reggae to help unwind, and later hit the dance floor at the Groove.

The Sunday morning President's breakfast included the Order of the Engineer ceremony where a large group of participants were presented with their stainless steel ring. We also had an open forum for questions, which were posed to the National Board of Directors.

The Zone II 2005 Leadership Conference was a great success. It brought together the great Younger Member leaders and allowed many of them to get out of all that cold weather up north! I enjoyed all the new people I met over the weekend and hope to stay in touch for years to come. I hope to see all of you at the ASCE Annual Conference in Los Angeles this fall!

Gateway to Leadership

By Adam Spector, PE, 2005 Zone III YMC Chair, Zone III CYM Corresponding Member

The Zone III YM Council was held in St. Louis, Missouri in conjunction with the Workshop for Student Chapter Leaders and the Workshop for Section and Branch Leaders on February 25-27.

Things opened on Friday with welcomes from St. Louis Section President-elect Marsia Geldert-Murphey, Zone III Vice

President Bob Thorn, and ASCE President Bill Henry. Dr. Jeff Russell provided an update on Policy 465. Executive Director Pat Natale gave a state of the association. Deputy Executive Director Larry Roth and Director of Critical Infrastructure, Marla Dalton discussed the importance of Infrastructure Security. Following icebreaker activities, the St. Louis Section sponsored an opening reception.

Saturday morning's activities began with introductions and group reports. After a discussion of the challenges facing YM Groups, Missouri Department of Transportation St. Louis Area District Engineer Ed Hassinger addressed the Council. Mr. Hassinger talked about dealing with the public. HDR Project Engineer Tysheina Robertson talked about mentoring. The morning ended with roundtable discussions. EDSI President George John moderated a table discussing the start-up of an engineering firm. Dr. Russell was available for further conversation on Policy 465. Mr. Roth continued discussion of infrastructure security issues. Membership Director, Susan Blodgett, facilitated discussion about membership recruitment and retention issues. Director of Communications Jane Howell moderated discussion of K-12 Outreach programs and materials.



Sam Hinojosa, with a Scott Berman "cut-out," accepts the Zone III Public Service Award on behalf of the Fort Worth Branch YMG.

A highlight of the President's Lunch was the signing of an agreement between ASCE and Engineers Without Borders. President Henry reemphasized the role of civil engineers in the world as the people responsible for protecting the

health and welfare of the general public. The Zone III awards were also presented during the President's lunch.

The afternoon program was a seminar on leadership styles and characteristics by Washington University associate professor Dr. Tom Browdy. A rousing game of JeopardASCE lead up to the annual business meeting. Two resolutions were passed during the meeting, one recommending the location of the 2007 Zone III YM Council and one calling for more interaction between YM's and Student leaders at the Zone Leadership Conferences. The last order of business for the day was the District breakouts.

Saturday evening, wild packs of engineers invaded the downtown St. Louis area known as Laclede's Landing. Sponsors for the field trip were **SCI Engineering, Penta Engineering, Geotechnology, and Reitz and Jens.**

Sunday morning began with the President-Elect's Breakfast and the Order of the Engineer Ceremony. Susan Blodgett further discussed available materials and programs for membership recruitment and retention. Nicholas Textor provided an overview of the new governance structure and the transition to that structure. The conference ended with Sunday Morning Live, hosted by Executive Director Natale, President Henry, and President-Elect Martenson.

Among the Saguaro Cactus

By Jason L. Mikkelsen, PE, Dibble & Associates
2005 WRYMC Co-Chair

The Western Regional Younger Member Council Meeting (WRYMC) was a great success in Phoenix, AZ, held February 18-20. Approximately 85 Zone IV YM's participated in technical tours, social activities, leadership training, a business meeting, and networking with the Section, Branch and Student Chapter leaders.

The first tour included a technical look at Bank One Ballpark, home of the 2001 World Champion Arizona Diamondbacks. The tour

included the retractable roof, underground clubhouse facilities, natural turf field, and air conditioning systems. The second tour stop



was the renovation and expansion of Phoenix Civic Plaza, a \$600 million publicly funded project, which include an overview of the more than 40' excavation, erection of the steel frames and construction of the concrete floor slabs for

the new convention halls and conference spaces. Lunch was provided in between the tour stops at TGI Fridays Front Row Sports Grill, overlooking left field at Bank One Ballpark.

Younger Members enjoyed social activities in downtown Scottsdale, AZ on Friday night, listening to some of the best local bands and showing off their latest dance moves.

The conference sessions included an open discussion of the Implementation of Policy Statement 465, Group Topic Discussion Roundtables, Mentoring and Its Long Term Rewards, ASCE Governance Formation Teams in Regions 8 and 9, Roundtable discussions with National Officers, and Achieving Results through Better Meetings. Additionally, delegates were presented a CYM Report, participated in the WRYMC Business Meeting, and attended the ASCE President's Lunch.



The annual WRYMC Awards Banquet was held on Saturday night at Monti's La

Casa Vieja in downtown Tempe, AZ, where attendees and guests enjoyed live entertainment, an old-western chicken dinner, and the presentation of the 2005 WRYMC Awards. Attendees took advantage of additional social activities after the banquet on Mill Avenue, near Arizona State University.

The 2005 WRYMC Award Winners were: **Brook Maples**, Outstanding Young Civil Engineer in the Private Sector; **Stacie Kaneshiro**, Outstanding Young Civil Engineer in the Public Sector; **Ann Epler**, Outstanding Younger Member in Community Activities; **Anh Ly**, Outstanding Younger Member in ASCE Activities; **Phoenix Branch YMF**, Outstanding Younger Member Group Project for the Arizona Trail Construction; and **University of Washington**, Outstanding Student Chapter.

The Phoenix Branch YMF was fortunate to host the 2005 WRYMC and appreciates the opportunity to be of service to ASCE. We especially thank the many WRYMC committee members who helped plan the conference, including: **Renee Schwecke, PE, HDR**; **Jennifer Bohac, PE, HDR**; **Susan Detwiler, PE**, Dibble & Associates; **Christine Fanchi, PE**, Dibble & Associates; **Lani Good, EIT**, Coe & Van Loo; **Amy Haymaker, EIT**, Parsons; **Kelly Lenhart**, Dibble & Associates; **Kevin Robertson, PE**, Aztec Engineering; and **Heidi Schneider, EIT, HDR**.

Thanks to all conference delegates for participating and helping to make the 2005 WRYMC a great success. We look forward to seeing everybody next year in Salt Lake City, UT.

2005 New Faces of Engineering



Lucy Phillips
A major factor in the U.S. Army's ability to effectively defend is its network of airfields. Lucy Phillips' expertise in Army airfield

research recognizes and stresses the need to evaluate airfields with an organized, holistic and systematic approach to save resources regardless of location or situation. This is among her primary contributions since joining the Army's Engineer Research and Development Center.

Along with her new take on evaluating airfields, Phillips also reassessed orientation of new employees at the center. When she began at ERDC, she felt she lacked sufficient guidance. To meet that need, Phillips created a new employee handbook to introduce new employees to the work environment and community.

Phillips is also heavily involved with encouraging young engineering students and other young people considering the profession. She regularly conducts tours of research facilities for visiting university groups. She uses her membership in the University of Mississippi's engineering alumni board to ensure ample funding and alumni participation with student activities. During National Engineers Week 2004, she helped locate young engineers to speak at local schools and to Mississippi Public Television. She herself speaks at local schools and represents ERDC at numerous school and community career/science fairs.

Phillips is currently earning a Master's degree in engineering and serves as president of the Vicksburg Branch of the American Society of Civil Engineers.



Anh Ly, PE, a bridge engineer at Parsons in Irvine, California, is responsible for designing bridges and structural elements for various transportation projects.

Ly coordinates with geotechnical and environmental engineers during the planning, specifications, and estimating processes. One of her major contributions at Parsons includes the Ocean Boulevard/Terminal Island Freeway Grade Separation Project for the Port of Long

Beach. Ly designed the two single-span cast-in-place, pre-stressed box girder bridges and performed quality control checks for nine mechanical stabilized embankment retaining walls. Recently Ly transitioned into a Structures Inspector for the State Route 22 High Occupancy Vehicle Widening Project in Orange County, CA. Her responsibilities include quality assurance of the design and construction of bridges and retaining walls along the 13-mile corridor.

Ly is the recipient of the 2005 Los Angeles Section Outstanding Young Civil Engineer Award, the 2004 ASCE Orange County Branch Young Engineer Award and the 2004 Orange County Engineering Council Young Engineer Award. She is an active member of the American Society of Civil Engineers and volunteers for Rebuilding Together.



Erik Metzger, a transportation engineer with Parsons Brinckerhoff in New York, NY, helped forecast travel demand for what has been called the most complex

environmental impact statement (EIS) in New York City history the No. 7 Subway Extension and Hudson Yards Development Program.

To promote a transit-oriented redevelopment of Manhattan's West Side, the project includes: a \$2 billion extension of the No. 7 subway line; 40 million square feet of new residential and commercial development; a new 75,000 seat multi-use sports and entertainment facility; and a one million square foot expansion and modernization of the Javits Convention Center. Metzger's work involved forecasting the total number of trips that would be made to and from each of these projected developments, the locations of their origins and destinations, how they would be divided among available modes of travel, and the routes they would take. These forecasts were used in the EIS to assess the project's

effect on area traffic conditions, parking facilities, public transportation services, and pedestrian flows.

Metzger is an active member of the ASCE Met Section Younger Member Forum and has served as its president, secretary, and student outreach coordinator. As student outreach coordinator, he organized visits to City College, Columbia University, Cooper Union, Manhattan College, NYC College of Technology, and Polytechnic University to speak to students about the challenges and rewards associated with a career in civil engineering.



Melissa Wheeler, a structural engineer with the Georgia Power Company in Marietta, Georgia, currently works at the Metro Atlanta Transmission Maintenance Center.

After graduation from the Georgia Institute of Technology, Wheeler accepted a position in Transmission Organization at Georgia Power. Currently Wheeler's duties include design and maintenance for high voltage power lines in the metropolitan Atlanta area. Wheeler is involved in the transmission line design teams for the new Aquarium/World of Coke site in Atlanta, the award winning Atlantic Station Project, and the Perry Homes/West Highlands revitalization effort. She is frequently called in on emergency repairs for hurricane damage throughout the state of Georgia and the southeast.



Lisa Woods, PE, a civil engineer for Jordan, Jones & Goulding in Norcross, Georgia, designs bridges. As the first Younger Civil Engineer of 2002 in Georgia, marking the 150th anniversary of ASCE,

Woods Section leadership was recognized early. She now has two national leadership positions in ASCE with the Young Members Committee, but foremost with the Structural Engineering Institute Local Activities Division Executive Committee. She is

leading the Institute to support local Sections while she chairs the ASCE Georgia Structures Technical Group.

Community Service a recurring theme for East Central Branch YMF

By Heather Patterson, EI, East Central Branch, Florida Section

The **East Central Branch (ECB) YMF** began and ended 2004 right by assisting the local Second Harvest Food Bank. We began the year by sorting through food and clothing to be distributed to those in need. For our Thanksgiving holiday contribution we had a canned food drive; members got creative and offered to go shopping for co-workers or provided pizza prizes for the department with the largest donation. The result was 2,709 pounds of food, which is almost three times collected last year.

We've been active in educating the local children in the community on the engineering practice all year long. From second grade to high school, we have participated in Engineer for a Day, local science fairs and teach-ins where the children learned "All about Bridges."

The Annual Toys for Tots collection has been one of our yearly projects and was not missed this year. Central Florida children were provided with more than 100 new toys for Christmas gifts this year.

The 2005 New Year began on the "right foot"(and the left one too) with a new type of service project.



Special thanks to East Central Branch Younger Members **Chris Garlick, Julie Hartley, Brandon Bobo, Sarah Greene, Michelle Everett, Christina Dixon, Brad Choi, Heather Patterson, Lindy Wolfe, Nicole Crawford, Loreen Choate and Luca Delverne** for volunteering to assist at a water stop for the Disney Marathon. The Marathon and Half-Marathon benefited the

Leukemia and Lymphoma Society. Over 25,000 runners (and walkers) participated in the race. Next year, a few ECB YMF members are even planning to participate in the race!

Golden Gloves and the Fort Worth Branch YMG

By Scott Berman, YMG Chair, Fort Worth Branch

The Fort Worth Branch YM Volunteer Group is always looking for ways to help the community. The Fort Worth Golden Gloves is probably our most entertaining volunteer activity. The Golden Gloves is an annual



amateur boxing event that we look forward to and is difficult to call

volunteer work. Both the Regional and State competitions are held in Fort Worth during the last week of February and first week of March.

Boxers are both male and female, with ages ranging from eight to over thirty. This is the second year our volunteer group has participated in the event. We are responsible for several ringside tasks, which include keeping the fighters' win/loss records in their log books and assisting the doctors with first aid, if needed. We sit ringside every night! With two weeks of fights, we have plenty of opportunity for volunteers and there never is a problem finding them. Who knows, maybe one day soon we'll see one of our own up there in the ring!

Minnesota YMF Civil Engineering Career Fair

By Craig Bursch, PE, Student Liaison and YMF President-elect, Minnesota Section

On February 23rd and 24th, the 4th Annual Civil Engineering Career Fair was held at the University of Minnesota (U of M). The ASCE Minnesota Section YMF, U of M ASCE Student Chapter and the U of M

Department of Civil Engineering hosted the event jointly.

The Career Fair was expanded to two days for the first time in event history, as nearly forty engineering firms and professional societies participated. Firms ranged in size



and scope from national and regional engineering firms to local municipalities. Each participant used their booth to

display recent projects, increase student awareness about “real world” engineering and recruit for employment opportunities.

While providing a networking opportunity for students, the Career Fair also serves as a fundraising event. All proceeds from the Career Fair go directly to the ASCE Student Chapter. Overall, most student participants were from the U of M. With approximately 200 students in attendance, event organizers declared the Career Fair a success for the fourth consecutive year. The Career Fair is a great example of how an ASCE event can bring students and employers together.

Leading up to the Career Fair, the YMF hosted a resume-critiquing event for the Student Chapter Members at the U of M. This was another opportunity to build ties between the YMF and the U of M Student Chapter.

YMF Members **Seth Spychala, Mark Duncan, Matt Ruble** and **Craig Bursch** spent 90 minutes with approximately 50 students providing them pointers on their resumes. Also participating on the critiquing side was **Mark Sorenson-Wagner**, acting head of the U of M’s Institute of Technology’s Career Services Department. The students appreciated the feedback and brought their updated resumes to the Career Fair.

Northern Exposure

By Richard Pascual, Central Jersey Branch YMG

On March 3rd, a group of “diehard” snowboarders and skiers had a fun night on the slopes under the bright lights of Blue Mountain in Palmerton, PA. **Janet Keiser** from the Central Jersey Branch YM Group organized the Ski Outing. The Lehigh Valley Section YM Group, headed by **Greg Kuklinski**, came out and had a fun night with their fellow ASCE members. North and South Jersey Branch YMG’s were also invited to the event.

Some members took advantage of the uncrowded ski and snowboarding lessons, while others braved snowtubing. After a few hours of fun, everyone including the first time skiers and snowboarders, who were frustrated falling on their \$@%, met at the



ski lodge for some “loud”, live music and warm food. As the night was winding down

everyone made a last run on the slopes; even the screaming snowtubers. Everyone had a great time and we hope to see more for next year's ski outing!

Introducing Middle School Students to Engineering

By Chris Hennessy, EIT, National Capital Section YMF

The West Point Bridge Design Contest (<http://bridgecontest.usma.edu/>) is a national competition whose purpose is to introduce middle school and high school students to civil engineering. It’s sponsored by the United States Military Academy at West Point, which was the first school in the U.S. to offer a formal program in engineering. Civil Engineering was the basis of the Academy’s curriculum during the 1800’s and its graduates played a vital role in the design and construction of this country’s infrastructure. To honor that

heritage, the U.S.M.A. developed this contest to acquaint younger students with the engineering design process through a



realistic and engaging problem solving experience.

Meg Dailer's 7th grade Honors Math students at Washington Irving Middle School in Springfield, Virginia, participated in this year's



contest. Each student had to design a steel truss bridge in the software developed by the U.S.M.A. that would withstand a load test and at the same time be economical. The students were given the same site conditions and design options and they had to decide what combination of those to use in order to obtain the most cost effective design. These options included the type of truss, the height of the bridge, the amount of site excavation, the abutment design, the type of structural members, the material strength, etc. In many ways, this exercise very closely resembles the decision making process that engineers go through during a project development and design.

The ASCE National Capital Section YMF assisted the students by providing a mentor to help them with their designs. **Chris Hennessey**, a structural engineer with Haynes-Whaley Associates in Reston, Virginia, spent a day with Ms. Dailer's classes explaining basic structural engineering principles, such as tension and compression, how trusses work and how they are used in society, as well as giving them advice on how to design a more efficient bridge. With his help, the students refined their designs and submitted them in the Regional Qualifying Round of the competition. The top ten students in this

competition will move on to the semifinal round where they will need to produce a new design under different conditions. The best five best designs will then move on to the finals in West Point, New York, where the winner will receive a \$10,000 college scholarship.

Fourth Annual Executive Forum

By Erik Metzger, Met Section YMF Secretary

On February 15th, the Met Section YMF hosted its fourth Annual Executive Forum. Over one hundred young engineers attended this event, which was held at the



Stephan Destin, Met. Section YMF President presents award to Mysore Nagaraga.

City University of New York's Graduate Center in Midtown Manhattan. The event was co-sponsored by the YM Groups of both ASCE

and the Society of American Military Engineers (SAME).

Over the past few years, this event has given young engineers an opportunity to meet prominent individuals holding leadership positions in New York City's public agencies, private consulting firms, construction industry, and small/women-owned businesses. Representatives from this year's executive panel included: **Mysore Nagaraga**, PE, President of the Metropolitan Transportation Authority Capital Construction; **Achille Niro**, PE, Assistant Chief Engineer of the Port Authority of New York & New Jersey; **Robert Nilsson**, Chairman, President and CEO of Turner Construction International LLC; **Jayne Warne**, PE, Chairperson and CEO of Matrix Environmental and Geotechnical Services; and **Fruma Narov**, PE, President of UA/Osmos (a subsidiary of the Urbitran Group).

With a theme of “The Expanding Role of Engineers,” **Tim Groninger** of Hazen and Sawyer moderated a discussion among the panelists that focused on topics such as skill sets and challenges (is one educated enough to handle the future), work-life balances (how one makes the choice between the bottom line and life issues) and vision (what career path one decides to choose and how they can reach it.)

The speakers encouraged young engineers to be proactive about teaching themselves and getting involved in their organizations so they are open to other opportunities other than engineering. Healthy work environments, equal opportunity and mentoring were also items the panel discussed. Panel members also responded to specific questions from attendees, such as how they felt the industry would become as engineering becomes more and more specialized and how they felt the balance should be between company profit and employees’ family value.

Young engineers from over fifteen companies and several local colleges and universities attended the event, which included a networking session followed by a buffet dinner. Special thanks to our events sponsors: **DMJM+HARRIS, HydroQual, STV, Hardesty & Hanover, Urbitran, CTE Engineers, Parsons Brinckerhoff, HDR, and HNTB.**

Houston Branch YMF Lends a Hand



Younger Members Clay Forister, Matt Brightman, Eric Fisher and Bonnie Moss pose with students

Eight YM's volunteered their time to assist Jr. High School students from Grantham Academy for Engineering with creating a “Future

City.” Younger Members visited with these students twice a week for five months to

supervise them in creating their city in SimCity 3000, building a scale model of that city, writing a report about the city, and preparing a presentation about their city.

Partnership Established between ASCE and Engineers Without Borders USA

On February 26th ASCE President William Henry and Executive Director Natale signed a Memorandum of Understanding with EWB-USA. EWB is a non-profit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life. EWB creates simple, affordable, and sustainable engineering solutions to the design and construction of water, wastewater, sanitation, energy, and shelter systems in the developing world.

Through its programs, EWB-USA provides a hands-on opportunity for engineering students to work on international projects under the supervision of professional engineer mentors.

Projects are initiated by and completed with citizens in the host community who are trained to maintain the systems without additional external assistance. In this way, EWB-USA ensures that its projects are appropriate and self-sustaining. The projects are usually low cost and high impact.

Where do ASCE members come in? Basic needs of developing countries are very often civil engineering in nature. The possible roles of ASCE practitioners include:

- Becoming an ASCE technical reviewer, providing engineering review of proposed EWB systems,
- Providing mentoring or training to students chapters of EWB-USA,
- Becoming part of the project team which does the practical engineering with students in the months before the team leaves for on site implementation of the project,
- Becoming part of the team that volunteers to travel to the site, and plans, and constructs the project with the students and the villagers

- Raising funds to sponsor an EWB-USA project.

If you would like more information about EWB or would like to volunteer as an ASCE member, please contact Nancy Berson at (800) 548-ASCE or nberson@asce.org or Amy Smith at ewb@ermail.asce.org.

Cantilever Challenge – A Huge Success

ASCE's National Capital Section YM Forum hosted its fourth annual exhibit at the 2005 ZOOM Into Engineering Family Festival, on February 19th, as part of National Engineer's Week. The National Engineers Week Foundation, IBM, British Petroleum, the National Building Museum, and 17 local professional engineering societies sponsored this day-long program. Designed to engage young children and their families in hands-on engineering problem-solving activities, the event attracted more than 7,000 participants, including nearly 5,000 school-age children.

ASCE's Cantilever Challenge exhibit asked young participants to construct self-



supporting cantilever structures measuring over five feet in length and no less than 22 inches from the

ground and using plastic straws and only three feet of masking tape. Volunteers and spectators alike were amazed at the creativity, ingenuity, and tenacity of the

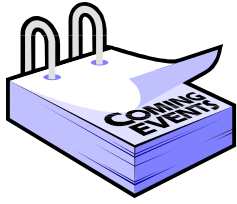
young builders. Within a few hours of the day-long program, ASCE had exhausted over 15,000 straws and a thousand yards of tape.

According to the Executive Director of the National Engineers Week Foundation, Leslie Collins, the Cantilever Challenge activity was one of (if not *the*) most popular exhibits at the festival. The success of the exhibit is due to the participation and enthusiasm of the 40 plus local volunteers and the more than 3000 attendees who visited ASCE's exhibit alone!

Other exhibits at the Festival included an interactive LEGO display, cast members from PBS' ZOOM television program, NASA's Robot Challenge, a slime-making booth hosted by the American Institute of Chemical Engineers and the Society of Women Engineers, and a Navy exhibit to explore buoyancy principles on the high seas.

To view more photos of the exhibit, please visit <http://groups.msn.com/ASCE-NCS-YMF> and click on *PICTURES*.

For more information about the program and upcoming outreach events, visit ASCE YMF online at <http://asce-ncs.org/ymf/Events.htm> or contact Kirin Smith at (301) 585-0100 x122 or ksmith@delonhampton.com.



CYM Calendar

August 1, 2005	Younger Member Employer Recognition nominations due.
August 30, 2005	YM Newsletter (Issue 55) submittal deadline
October 26, 2005	CYM Fall meeting (8AM – 5 PM)
October 27-29, 2005	ASCE Annual Conference in Los Angeles, CA
January 13-15, 2006	<u>Younger Member Council Meetings</u>
January 27-29 2006	WRYMC in Salt Lake City, UT
February 10-12, 2006	Zone II YMC in Tampa, FL
February 17-19, 2006	NERYMC in Boston, MA
	Zone III YMC in Houston, TX



Get It Write

Should I use affect or effect?

Affect is a verb and will usually mean “to change,” “influence,” or “impact”:

- The road closure will affect his ability to get here on time.
- Ice on a sidewalk affects walking ability.
- The weather forecast can affect what a person decides to wear for the day.
- Typing speed often affects how fast a paper can be produced.

Effect is a noun that primarily means “a result”:

- Bleach has a whitening effect on cloth.
- The wind has a cooling effect on skin.
- Oil has a softening effect on the palm of a baseball glove.
- Coffee has an energizing effect on many people.

Call for Papers

ATTENTION YOUNGER MEMBERS!!!

You are cordially invited to submit a forum article or paper to the:

JOURNAL OF PROFESSIONAL ISSUES IN ENGINEERING EDUCATION AND PRACTICE

The Journal seeks papers on a wide range of issues affecting Civil Engineering practice and education, including:

***Course Content • Engineering History • Engineering Ethics
• Certification • Registration • Professional Development •
Liability • Teaching Innovations • Curriculum
Development • Faculty Development • Construction
Law***

Suggested Topics Include (but are not limited to):

- ASCE's "Body of Knowledge" (What expectations are required of young engineers)
- Career Opportunities (In light of outsourcing abroad)
- The Continuing Computer Revolution (Junior engineers' IT knowledge eclipsing that of senior engineers, as well as possible lack of comprehension of sophisticated software operation)
- Civil Engineering Sub-disciplines (Apparent fracturing of CE into stand alone fields)

Submit five double-spaced copies to ASCE. Max length is 10,000 words papers, 5000 words forum articles, 2500 words notes, and 1250 words discussions. See ASCE Author's Guide to Journals, Books and Reference Publications at:
<http://www.pubs.asce.org/authors/index.html>

Questions and submittals can be directed to:

Brian Brenner, Editor, Tufts University
617-627-3761, brian.brenner@tufts.edu
Journal of Professional Issues in Engineering Education and Practice, American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400
JPI Website: <http://www.pubs.asce.org/journals/edei.html>

Problem Corner

This section was added to encourage Younger Member participation and fuel the competitive nature of most young engineers.

Send your solutions to Michael Shumsky, Editor at barkeater1@earthlink.net. Please be sure to include your respective Section and/or Branch, since individuals with the correct responses will be recognized in Issue 55 of the YM Newsletter. Good Luck! Bragging rights are at stake!

Issue 53 Answer

(As explained by **Andres Salazar**, Ph.D., PE. Fort Worth Branch, Texas Section)

Say the volume of the bath is 1 "bath".

Then, the inflow is: $1 \text{ bath}/4 \text{ min} + 1 \text{ bath}/5 \text{ min} = 0.25 + 0.20 = 0.45 \text{ bath}/\text{min}$

Similarly, the outflow is $1 \text{ bath}/10 \text{ min} = 0.1 \text{ bath}/\text{min}$

The rate at which the bath is filled is $0.45 - 0.10 = 0.35 \text{ bath}/\text{min}$.

Therefore, to fill the bath, the time is $1/0.35 = \mathbf{2.86 \text{ minutes}}$

Congratulations to the following Younger Members who provided the correct answer:

- 1.) Andres Salazar, Ph.D., PE, Fort Worth Branch, Texas Section
- 2.) Jason Christopherson, EI, East Central Branch, Florida Section
- 3.) Kenneth McCain, PE, Houston Branch, Texas Section
- 4.) Travis Jockumsen, PE, Central Utah Branch, Utah Section
- 5.) Ece Eseller, Student, Northeastern University
- 6.) Jacob White, PE, Charleston Branch, West Virginia Section
- 7.) XU Xiang, Student, Xi'an University of Architecture & Technology, P.R.China
- 8.) Marc Ducharme, PE, New Hampshire Section
- 9.) Seth Brakke, Ketchikan, AK
- 10.) Jeff Allen, Sacramento, California Section'
- 11.) Karthick-Babu Poosekar, Graduate Student, University of Alabama at Birmingham
- 12.) Andrew Morgan, Central Ohio Section
- 13.) Andrew Garner, PE, Colorado Section
- 14.) Travis Heier, EIT, Kansas City Section
- 15.) Xuemei Zhao, PE
- 16.) Apostolos Kozompolis, PE, San Francisco Section
- 17.) Mark Bendok, Illinois Section
- 18.) Eric Borne, EI, Baton Rouge Branch, Louisiana Section
- 19.) Eric Martindale, Metro Los Angeles Branch, Los Angeles Section
- 20.) Duncan Stewart, Richmond Chapter YMG
- 21.) Kaushal Kishore Mehra, Student, Indian Institute of Technology, New Delhi, India\
- 22.) Jake Sherman, EI, Southern Branch, North Carolina Section
- 23.) Spencer Maxwell, EIT, Fort Worth Branch, Texas Section
- 24.) William Friedah, PE, Ithaca Section
- 25.) Joe McLean, EI, Maine Section
- 26.) Jonathan Lessard, Carlisle, PA
- 27.) George Hartman III, Philadelphia Section
- 28.) John Stirman, Texas Section
- 29.) John Kim
- 30.) Sean Messner, Phoenix Branch, Arizona Section
- 31.) Martin Quinn, Blue Ridge Branch, Virginia Section
- 32.) Adam Larky, PE, Michigan Section
- 33.) Edward Stafford, Colorado Section
- 34.) Chris Trybojevich, PE, Minnesota Section
- 35.) Rick Hines, Illinois Section
- 36.) Shawn Stambaugh, PE, Palm Beach Branch, Florida Section
- 37.) Scott Doehla, Mid-Hudson Branch, Mohawk-Hudson Section
- 38.) Tom West, Michigan Section
- 39.) Ahmed Al Shaqra, Dubai, United Arab Emirates
- 40.) Seth Woods, EI, Louisiana Section
- 41.) Kevin Almirall, EIT, Melville, NY
- 42.) Frederick Owusu-Nimo, Student, Kwame Nkrumah Univ. of Science and Technology, Kumasi, Ghana
- 43.) Matthew Van Liew, Student, Stevens Institute of Technology, North Jersey Branch
- 44.) Diane Gould, PE, Sacramento Section

- 45.) Betsy Wilkinson, PE, Indianapolis, IN
- 46.) Jerry Wu, Ph.D., EIT, Oakland, CA
- 47.) Jeff Gerbensky, Wisconsin Section
- 48.) Spencer Anderson, EI, Sun Coast Branch, Florida Section
- 49.) Anthony Pozzuto, EIT, Cleveland Section
- 50.) Katrina Marx, PE, Kansas City, Missouri
- 51.) Joshua Hays, EI, Louisiana Section
- 52.) Edward Kovarik, PE, Boise, Idaho
- 53.) Brian Sroufe, Student, University of Cincinnati
- 54.) Piraba Pirabarooban, Roseville, CA
- 55.) Vivie Susanto, EIT, Georgia Section
- 56.) Robert Kisuve, EIT, Texas Section
- 57.) Bradford Watson, EIT, Nashville Branch, Tennessee Section
- 58.) John Wald, Student, North Dakota State University
- 59.) Sheina Pool, PE, Southern Arizona Branch, Arizona Section
- 60.) Lee Busse, Student, Cleveland Section
- 61.) Benjamin Crawford, EIT, Sacramento Section
- 62.) Randy Gorton, PE, Kansas City, MO
- 63.) Steven Swindell, Student, Texas A&M University
- 64.) Juan Luis Alonso Mate, San Francisco Section
- 65.) Daniel Vallero, Eastern Branch, North Carolina Section
- 66.) Paul Barney, Utah Section
- 67.) Daniel Caldwell, Student, Texas A&M University
- 68.) Eric Borchers, Student, Iowa State University
- 69.) Cesar Moran, EIT, Los Angeles Section
- 70.) Heather Shriner, Arlington, VA
- 71.) Joe Dattilo, PE, Detroit Michigan
- 72.) Greg Shavlik, PE, Colorado Section
- 73.) Kaushal Shah, PE, SE, Nevada Section
- 74.) Issac Wong, Metro LA Branch, LA Section
- 75.) Sean Bashaw, Student, San Jose State University
- 76.) Ivan Medina, EIT, Student
- 77.) Alice Hammond, PE, Pittsburgh Section
- 78.) Dan Riemann, EIT, Syracuse Section
- 79.) Eric Adjei, Student, Kwame Nkrumah Univ. of Science and Technology, Kumasi, Ghana
- 80.) Carol Gallagher, PE, Wisconsin Section
- 81.) Luis Moutinho, Student, University of Coimbra, Portugal
- 82.) Tazmi Shaw, EI, Florida Section
- 83.) Steve Sabraski, EIT, Minnesota Section
- 84.) Mohammad Quayum, EIT, LA Section
- 85.) Matthew Derr, PE, Colorado Section
- 86.) Mahmoud Mesbah, Student, Iran University of Science and Technology
- 87.) Renee Carter, Akron Canton Section
- 88.) T. Ananth, Student, University of Moratuwa, Sri Lanka
- 89.) Mike McAtee, Philadelphia Section
- 90.) Brandon Peterson, EIT, Central PA Section
- 91.) Rouhollah Alizadeh
- 92.) Matthew Tobolski, Student, University of Massachusetts Dartmouth
- 93.) Gaofeng Ma
- 94.) Richard Knight, Student, California State University, Fresno

Now for this issue's problem:

What unique feature connects the numbers 11826 and 30384?

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