ASCE PITTSBURGH SECTION
American Society of Civil Engineers
News
Volume 96, Number 7 March 2013 www.asce-pgh.org

eWeek Awards Issue

See the Inside pages for the local national awards bestowed on Pittsburgh are projects, programs and persons.

Banquet speaker: Mike Schiller, Green Building Alliance, CEO

"Green Buildings and Aconcagua: It's the Journey, Not the Destination"

At the 2013 Pittsburgh Section Awards Banquet, Mike Schiller, CEO of the Green Building Alliance, gave a stirring and informative message relating green buildings to his latest mountain climbing experience.

THE BASICS OF GREEN BUILDINGS

"Green" or "sustainable" building is growing in importance and popularity. But what is it, why is it important, and what are the benefits? Mike Schiller, CEO of Pittsburgh's Green Building Alliance, explained:

Buildings: The Challenge

In the U.S., buildings are responsible for 39 percent of our energy use (up to 50 percent when counting energy used in construction), 65 percent of our waste output, 40 percent of carbon dioxide emissions, and seventy-one percent of our electricity consumption. Meanwhile, Americans spend 90 percent of their time indoors, where air quality can be up to five times worse than outdoor air quality. These are some of the challenges we face in regards to the built environment.

Buildings: The Solution

But buildings can also be part of the solution. Green buildings – or ***healthy and high performing buildings*** – can greatly reduce environmental impacts while also promoting health and economic development. In fact, green buildings can reduce energy consumption by up to 50 percent, waste output by 70 percent, and water use by 40 percent.

Overall, healthy and high performing buildings offer the following benefits:

Lower operating costs,	Reduced energy consumption,	Overall environmental benefits,
Health benefits,	Increased productivity,	Positive marketing & promotion

Improved health is a driving force behind the green building movement. Green buildings provide healthy spaces for people to work, live, and to learn and play.

The basic theory behind green building is that there are better ways to do things. Green buildings go above the standards of typical building design to create healthy, high performing spaces for building users and the surrounding community. So how does it work? (continued on page 12)

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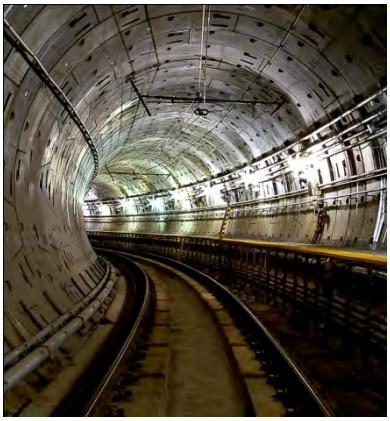
North Shore Connector
2012 Civil Engineering Achievement Award



This project is perhaps the most important transportation project in over 30 years. For a century, regional transportation studies reached the same conclusion, to connect the northern suburbs with the central business district via the old Harmony Short Line route following Girty's Run from Millvale. But the first problem to solve was to provide the regional off-road mass transit system necessary to sustain the region's economy in the future was to get across the Allegheny River. Finally, with foresight from past leaders and a significant monetary contribution from the federal government, the river crossing has been built. Moreover, the tunnel crossing has much lower life cycle cost than a bridge.

Now, if leaders emerge again, the foundation is in place for extension through populated areas in the North Hills all the way through Cranberry to Harmony, and through the Ohio valley all the way to the airport, for our region to effectively compete with other major cities for the corporate presence that will bring the necessary origins and destinations to attract traffic volume back to Pittsburgh International Airport.

The North Shore Connector is a technological marvel. The 1.2-mile extension of Port Authority's 25-mile light rail system, the T, from Downtown Pittsburgh into the city's thriving North Shore area supported about 4,000 jobs through the design and construction phases of the project, which included the boring of twin tunnels under the Allegheny River and construction of three new stations in Downtown Pittsburgh and on the North Shore. The North Shore Connector was open in March of 2012 at a final cost of $529 million. The new line travels from Downtown near Gateway Center underneath Stanwix Street and the Allegheny River.

The project was bid and constructed using eight separate contract packages including the North Side Tunnels and Station Shell, Gateway Station Shell, Aerial Structure, Station Finishes (Gateway, North Side & Allegheny), Elevators/Escalators and Train Systems. The project also employed a number of unique and state-of-the-art design and construction techniques that the region had never before seen; the most unique of which was the design and construction involving 2240' long twin bored tunnels under the Allegheny River. The tunnels were constructed using a 22' diameter tunnel boring machine. Other technical highlights include slurry wall construction of the North Side Station; an aerial structure approximately 2,000' long; 1,200' of cut and cover tunnels; tunneling adjacent to a historic building; threading the alignment through an existing building's pile foundations; and underpinning of existing S.R. 0065 viaduct foundations.

The project included reconstruction of Gateway Station in the Golden Triangle into an architecturally innovative structure that introduces natural light to the subway platform through extensive use of glass at street level. No less impressive is Allegheny Station located at the northwest corner of Heinz Field; the station platform is located on an aerial structure of steel and glass that spans Allegheny Avenue. Along with the underground North Side Station, located adjacent to the West General Robinson Street Garage, the new stations currently provide access to, businesses, entertainment, sporting and parking venues on the North Shore in anticipation of the extensions that will connect workers and consumers with the employers and businesses of the region.

AECOM was the prime design consultant with a team of 38 subconsultants working in offices around the world (USA, UK, and Australia). The project was constructed by the North Shore Constructors – An Obayashi-Trumbull Joint Venture, and managed by Tri-Gold – a joint venture between **HDR**, Kwame and Jacobs.

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Mon/Fayette Expressway Uniontown to Brownsville Phase II Project 2012 Award of Merit Project –

Sharing the regional significance with the North Shore Connector is the $302 Million Mon/Fayette Expressway, from Uniontown to Brownsville. This Phase II, was the last segment necessary to complete 57 miles of highway that starts in West Virginia at Interstate 68 and continues to Large on Route 51 South of Pittsburgh. The expressway had been in the planning/construction phases for more than 25 years and the completion of this section has opened Fayette and Washington Counties to additional manufacturing and residential development for Allegheny County and Pittsburgh.

Still remaining, of course, is the link from Large to the Allegheny County Airport, and then from there through the Steel Valley to the Parkway East at Hazelwood, greatly improving accessibility between the Mon Valley and the Pittsburgh Central Business District (CBD) and the universities and medical facilities of Oakland that have replaced the industry of the Mon Valley. This visionary investment in regional transportation by the public Pennsylvania Turnpike for Southwestern Pennsylvania will realize its full potential to rebuild the economic vitality of the region. When our elected representatives establish the funding to complete the missing links to the CBD and the Southern Beltway to I-79 and then the current terminus at Route 22, these remaining missing links will allow the region to successfully compete with other national cities, creating a vibrant regional economy for the next century.

In this project, the Pennsylvania Turnpike Commission successfully delivered a construction project that includes • 3 interchanges, • 7 miles of ramps, • 15 bridge structures (including the signature 3022' long and 200' high Monongahela River Concrete Segmental Box Girder Bridge), • 15 permanent and over 50 temporary storm water retention basins, • 11 million cubic yards of excavation, and • approximately 33 lane-miles of mainline pavement. The success of this project demonstrates the value that proper design, scheduling, construction management, full-time construction inspection, and teamwork has on a complex construction project provided by members of the American Society of Civil Engineers.

Prime consultant for the Uniontown to Brownsville, project, **SAI Consulting Engineers, Inc**., was responsible for the construction management and inspection of all four sections. **Gannett Fleming** was responsible for the overall design management of Phase II. The lead design consultants for each of the four Sections include **GAI Consultants, Inc**.; **Mackin Engineering, Inc**.; HNTB Corp. alternate design engineer FIGG; and **AECOM.**

The prime construction contractors for each section include New Enterprise, Inc.; Mashuda Contracting, Inc. of Cranberry; Walsh Construction Co. of Canonsburg; and Trumbull Corp. of Pittsburgh.

Andrew W. Herrmann, P.E., SECB, F.ASCE
2012 Civil Engineer of the Year –

It's not every year that the Pittsburgh Section can boast that the President of the international **American Society of Civil Engineers** is a member of the Pittsburgh Section.

Andrew W. Herrmann, P.E., of Mt. Lebanon, and principal with Hardesty & Hanover, LLP, was the 2012 president of the American Society of Civil Engineers (ASCE).

In 39 years at Hardesty & Hanover, LLP, Herrmann held many positions including structural detailer, structural engineer, project engineer, and associate engineer before becoming managing partner and then a principal. Herrmann's experience includes design, inspection, rehabilitation, and construction along with managing some of the firm's major fixed and movable bridge projects.

Within ASCE, Herrmann has served as • president of the New York City Metropolitan Section, • chair of the Technical Administrative Committee on Bridges, • director of Region 1, and • national treasurer. Andy served on the Advisory Council for the 2003, 2005 and 2013 ***Report Cards for America's Infrastructure*** and chaired the council for the 2009 Report Card. Herrmann has served as a spokesperson for ASCE in many magazine, newspaper, radio and television articles and stories. He also appeared in the History Channel documentary 'The Crumbling of America.' Along with numerous other volunteer efforts, Herrmann has served as • director of St. Mary's Rehabilitation Center for Children, • a member of AREMA's-Committee 15, Steel Railroad Bridges, and • Chairman Emeritus of Heavy Movable Structures.

Herrmann earned his bachelor's degree in civil engineering from Valparaiso University, Indiana, and his master's degree from the Polytechnic Institute of New York, now POLY-NYU. Andrew Herrmann is a registered professional engineer in 29 states.

2012 Young Civil Engineer of the Year – Timothy D. Brett, P.E.

Timothy D. Brett, P.E. is currently the Assistant Manager of the Civil Engineering Environmental Studies Unit at **Lennon, Smith, Souleret Engineering**, Inc. In this capacity, his main focus has been development of Wet Weather Plans, Long-Term Control Plans, Act 537 Plans and Hydraulic and Hydrologic modeling of sewer systems. His main projects have included the ALCOSAN Upper Monongahela Planning Basin wet weather facilities plan, development of Feasibility Studies for various clients in Allegheny County for compliance with the Health Department's Administrative Consent Order and a member of the Three Rivers Wet Weather (3RWW) Project Management Team, which included involvement in the Feasibility Study Working Group, Complex Sewershed analysis and Green Infrastructure analysis. Tim was previously employed by the Pennsylvania Department of Environmental Protection where he was involved in the sewage facilities and NPDES permitting programs.

Tim holds a degree in Environmental Systems Engineering, Inc. from the Pennsylvania State University. Tim currently resides in the southern suburbs with his wife Lindsey, daughter Brooklyn and future baby due at the end of April.

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Anthony Iannacchione, PhD, PE, PG
2012 Professor of the Year –

Past Pittsburgh Section President Dr. **Anthony Iannacchione** is an associate professor in the Civil Engineering Department and the Director of the Mining Engineering Program at Pitt.

Dr Iannacchione teaches courses in • Strata Control Engineering, • Environmental Controls in Mining, • Mineral Industry Risk Management, • Sustainable Development and the Minerals Industry, • Mine Ventilation Engineering and • Mining Health and Safety. As director of the mining program he is responsible for conducting research efforts addressing environmental, health, safety, and productivity issues in our nation's mineral industry.

Dr. Iannacchione is always there to help students and became the official Faculty Advisor of the Pitt Student Chapter in August. In addition to helping out our chapter he is also always encouraging students to become involved in ASCE and other professional organizations. Dr. Iannacchione has been activity involved in ASCE and is the past president of the Pittsburgh Section, the Society of Mining Engineers, and is a member of the Pittsburgh Coal Mining Institute of America Board of Directors.

Dr. Iannacchione is a registered Professional Engineer (PE) and Professional Geologist (PG) in Pennsylvania. He has organized many seminars, conferences, and symposiums. He has delivered over 90 formal and 45 informal presentations, participated in over 100 scientific meetings covering a wide variety of topics, and has authored over 65 papers. In 2009 he received the Henry Krumb Lecturer Award and the Syd S. Peng Ground Control in Mining Award from the Society of Mining, Exploration, and Metallurgical Engineers.

Dr. Iannacchione's ability to communicate and relate with his students makes him a favorite among many engineering students at the University of Pittsburgh. Dr. Iannacchione earned his PhD in Civil and Environmental Engineering from the University of Pittsburgh in 1997, his MS in Civil and Environmental Engineering from the University of Pittsburgh in 1990, his MS in Earth and Planetary Science from the University of Pittsburgh in 1977, and a BS in Geology from California State College in 1975.

Timothy D. Prevost, P.E.
2012 Government Engineer of the Year –

Timothy D. Prevost, P.E., ALCOSAN Manager of Wet Weather Programs, is honored in recognition of his outstanding performance in the development of the Wet Weather Plans for the Region. Playing a key role in the recently released ALCOSAN Draft Wet Weather Plan, Mr. Prevost has shown exemplary skill both technically and relationally in the challenging task of coordinating the parallel efforts of the 83 municipalities whose collector sewers drain to the regional ALCOSAN system to transport and treat sewage, a municipal structure unlike any other in the nation. His patience, perseverance, and professional promotion of municipal performance and cooperation are instrumental to meeting clean water goals in the Pittsburgh region.

Tim earned a Bachelors of Science in Civil Engineering Technology from Rochester Institute of Technology, and has 20 years' experience in the engineering field, the past 11 years as a registered Professional Engineer in Pennsylvania.

Tim has been working for ALCOSAN since April 1996. In 2003 he was promoted to Manager of Wet Weather Programs. In that role he is responsible for several aspects of ALCOSAN's Wet Weather Program, which includes monitoring, modeling, construction management and, with several others from ALCOSAN, the Basin Planning effort.

Tim is an active member of the 3RWW Feasibility Studies Work Group, which works to assist the municipalities within the ALCOSAN Service Area in the development of their Municipal Feasibility Studies which is shaping the work for the local municipalities over the next several decades.

Tim is most proud of two projects. The first is the Regional Collection System Flow Monitoring Program. Tim facilitated the complex solution of simultaneous monitoring the quantities of sewage flow at over 100 locations, working with ALCOSAN, municipal, and regulatory contemporaries on this award-winning project.

The second has been as project manager for the Upper Monongahela and Turtle Creek planning basins. Working in conjunction with his colleagues at ALCOSAN, the Basin Planning effort culminated in the development of the recently submitted Wet Weather Plan. This plan will be the foundation of the largest public works investment ever executed in this region.

Tim lives in Moon Township with his wife Kim and three incredible children Linnea (7), Keira (6), and Xander (2).

Governor's Plan for Transportation Funding

The Cost of Doing Nothing

Bridges

- The number of structurally deficient bridges, now at more than 4,000, will continue to rise.
- More weight restrictions and bridge postings will occur as repairs or replacements can't be made.

Roadways

- Travel conditions will worsen as the number of roadway miles in poor condition will continue to increase. In 2011 the state had 9,200 poor roadway miles which will increase to an estimated 16,000 in 2017 without additional investment.
- Motorists will see increased costs to repair their vehicles as wear and tear from poor roadway conditions worsens.
- Motorists will also see increased costs from sitting in congestion, wasting up to a gallon of gas per week sitting in traffic or detouring around a closed bridge.

Transit

- Transit delays will become more commonplace as old vehicles become unreliable and ultimately more expensive to replace.
- Roadway traffic and congestion will increase as transit service cuts or service disruptions put more people back on the highways in vehicles that previously weren't there.

Public Safety

- Ambulances and other life-saving vehicles will have to detour around closed bridges, leading to lost and potentially life-saving minutes.
- Locations seeing high numbers of crashes that could benefit from improvements such as cable median guide rail, rumble strips and intersection upgrades will take longer to be addressed.
- The transit services that many people, especially those with disabilities or seniors, rely on may be reduced or eliminated completely as transit systems make painful cuts to services.
- The more than 1.5 million children traveling to school every day on more than 31,000 school buses will travel increasingly longer routes on poorer roadway conditions.

The Economy

- Commerce will suffer as increased truck traffic, commuter traffic and the inability to increase highway capacity will make goods movement slower.
- Costs of goods will increase and industries, like agriculture, will see increased cuts into their bottom lines as they have to take longer trips around closed or posted bridges.
- Pennsylvania will lose out on job creating commerce centers because of the lack of funding to increase highway access or bring all roadways into good condition.
- Prices for the goods and services we use every day will go up because of increased costs with system deterioration and longer transit times to the marketplace.
- Decreased project work will lead to the loss of 12,000 jobs, however if investment is brought up to our needs we have the potential to gain 50,000 jobs.

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Len Boselovic
2012 Journalism Award

For over 1½ centuries, the economy of Western Pennsylvania has been dependent upon our navigable rivers. Not only are bulk materials transported on our rivers, but also the pools formed by the locks and dams are the source of much of the drinking water of the region.

The US Army Corps of Engineers reports that the lack of funding by Congress has caused the condition of this vital national asset to deteriorate from 'Proactive Maintenance', to 'Fix as Fail', to now 'Fail to Fix'. Congress has not adjusted the user fees collected to maintain and update our critical system of locks and dams since it was set at 20¢ per gallon in1995. When Lewis and Clark began their expedition in August 1803, one could wade across the rivers at the point. A consequence of Failure to Act could return us to that condition.

Informing the voters of the critical imperative to fix our navigable waterways is essential to provide the support to our elected officials to take responsible action to save our Southwestern PA economy. Reporter Boselovic's work forms an essential part of the ASCE effort to sustain our economy and build the quality of life in Southwestern Pennsylvania.

Len Boselovic is honored with the 2012 Journalism Award for his March of 2012 four part series "Locked and Dammed" in addition to several stories regarding the waterways infrastructure. Mr. Boselovic's coverage of civil engineering projects and legislation related to vital infrastructure contributes to creating awareness of our deteriorating infrastructure and the impact to the voting public. Len Boselovic has covered the metals industry, financial markets and other topics since joining the Pittsburgh Post-Gazette in 1993. Before that, he worked at the Pittsburgh Press and the Journal Newspapers in suburban Washington, D.C.

Len has received awards for business and investigative reporting, including being named a finalist for the Goldsmith Prize for Investigative Reporting sponsored by the Joan Shorenstein Center on the Press, Politics and Public Policy at Harvard University.

Mr. Boselovic is a 1974 graduate of John Carroll University and received an MSJ degree from Northwestern University's Medill School of Journalism in 1981.

The YMF held their 4th annual Ski Trip and Winterfest. at 7 Springs Resort to take part in the winter festivities (skiing, snowboarding, snow tubing, and relaxing in the lodge). Those gathered in a social atmosphere, developed their team skills while working on individual slope skills and helping their peers improve theirs. Aided by snowy weekend weather, conditions were ripe for tearing up the snow and enjoying a great day with some fellow engineers.

For more information on the Younger Member Forum, contact **Angela Mayer,** E.I.T. KU Resources, Inc. **412-469-9331**
amayer@kuresources.com

2012 Employer Recognition Award – AECOM

AECOM is listed on the Fortune 500 as one of America's largest companies with talented employees — including architects, engineers, designers, planners, scientists and management professionals — now serving clients in more than 140 countries around the world.

AECOM's technical expertise and creative excellence come from the rich history of some of the world's finest engineering, environmental, construction management as well as planning and design companies. From transportation, energy and water systems to enhancing environments and creating new buildings and communities, AECOM's vision remains constant — to make the world a better place.

AECOM is one of only a handful of companies enrolled in the relatively new ASCE Partners Program – a program that provides corporate membership to organizations, delivering ASCE products and services at exclusive rates. AECOM was a sponsor in the 2012 Annual Conference in Montreal, QC. During the 2011 – 2012 year AECOM Pittsburgh employed approximately 60 civil engineers with 38 (63%) enrolled as ASCE members. For over a decade, the Pittsburgh office of AECOM has supported the ASCE Pittsburgh Section by way of local event sponsorships including dinners, social events, and community and educational outreach activities; encouraging participation in events and leadership roles; and supporting membership and time commitments. AECOM Pittsburgh employees have held prominent national and local ASCE positions including Regional Director, Pittsburgh Section and YMF Presidents, Pittsburgh Section Secretary and Directors as well as a plethora of committee roles.

National Awards Recognition

AECOM

2013 ASCE Superior Employer Recognition Award for Support of Younger Members in the Private Sector

Dr. David Dzombak, Ph.D., P.E., F. ASCE, NAE – Carnegie Mellon University

Simon W. Freese Environmental Engineering Award & Lecture

Andrew L. Deao, P.E. – Gannett Fleming

2012 Edmund Friedman Young Engineer Award for Professional Achievement.

This award ". . . recognizes younger members of ASCE (35 years of age or younger) who have advanced the profession; exhibited technical competence, high character and integrity; developed improved member attitudes toward the profession; and contributed to public service outside their professional careers."

Andrew L. Deao, P.E.

Gregory M. Rumbaugh, P.E.

2013 ASCE Eastern Regional Younger Member Council's Outstanding Young Civil Engineer in the Public Sector

Pittsburgh Section Younger Members Forum

2013 ASCE Eastern Regional Younger Member Council's Peer Group Award

ALCOSAN Scholastic Outreach Program
2012 Award of Merit (Program) –

The ALCOSAN Outreach Program was initiated in response to the EPA consent decree which requires ALCOSAN to educate the public about the impacts of combined sewer overflows. In 2004, ALCOSAN Chairman and **State Representative Harry Readshaw** and Executive Director Arletta Scott Williams crafted the idea to go beyond the consent decree and teach children to be responsible stewards of the environment and grow up being responsible and educated rate payers.

ALCOSAN Chairman and State Representative Harry Readshaw

The Scholastic Outreach Department at ALCOSAN provides free hands-on Science, Technology, Engineering, and Mathematics (STEM) education and outreach services. Programs include • classroom presentations, • interactive activities for after school programs, • summer science camps, • treatment plant tours, • storm drain stenciling, • community events, and • educator workshops. The overall goal is to create awareness of local and regional water quality issues through education about the wastewater treatment process and its impact on public health.

ALCOSAN mascot Frankie the Fish builds lasting memories with future voters

The Outreach Program was initiated under the ALCOSAN Public Relations Department and in 2011 became its own department outright. The Scholastic Outreach & Education Department staff includes

- Twila Simmons-Walker; Manager
- Cindy Mittereder, Administrative Secretary.
- Scholastic Outreach Specialists,
  - Erica LaMar,
  - Amy Gross,
  - Mindy Binek.

The Outreach Program is available for all schools in the ALCOSAN service area and consists of classroom hands-on and after school activities and a Summer Science program. Classroom activities are customized for specific age groups in classes ranging from K-12 and cover the topics of • Humans, • Water & Waste, • Pollution Prevention and • Watershed Education.

After school activities include topics such as • Life Cycles, • Buoyancy, • Water Pollution, • Engineering, •STEM and •pH.

Two summer camps are offered for 4th and 5th graders, in which the campers spend a week involved with hands-on watersheds activities while a third camp hosts 6th-8th graders covering biodiversity.

Did you Call?

The iron is hot. The Pennsylvania Governor has proposed additional transportation funding measures, some of which were among the recommendations of his blue ribbon TFAC panel. The Governor's proposal gradually increases funding over a 5-year period to $1.8 billion of Pennsylvania's $3.5 billion transportation funding gap.. Some lawmakers acknowledge that although any proposed transportation funding measures are better than none.

MORE IS NECESSARY! Did you call your legislators? Their phone numbers are in last month's newsletter. Give them your support to responsibly fund our Commonwealth.

2012 Michael A. Gross Meritorious Service to the Pittsburgh Section Karl Sieg, P.E.

Karl Sieg has been active in ASCE since 1968 and in the Pittsburgh Section since 1973. In Pittsburgh he began as a member and then chairman of the Social Action Committee begun by Past President Joe Lagnese to increase minority participation in the profession. Karl later served on the Board of Directors and chaired the Public Affairs and Publicity Committee in the early 1990s.

In 1999, Karl took over the Treasurer role and remained Section Treasurer for 11 years. During his tenure as Treasurer, Karl carefully 'minded the store' and slowly built up our Section financial strength to a safe multiple of annual revenue. Karl continues to offer invaluable financial and operational insight. With his working knowledge of our Section's history, Karl has been instrumental in directing more effective ways of applying Section resources for the benefit of Section members.

Throughout his tenure with ASCE, Karl has unselfishly filled vacant roles when needed including Director, Public Affairs and Publicity Chair and most recently the Pittsburgh Section Newsletter Editor where he continues to support awareness and the ASCE mission. In addition to his ongoing leadership in delivering a quality monthly newsletter, Karl has remained intimately involved in guiding our Section's public relations activities and the structuring of a role for an independent public relations specialist to assist our Section in ascending to new heights. Karl served as ASCE Pittsburgh Section President in the 2011-2012 year and currently serves as Past President and Nominations Committee Chair. Karl has and continues to approach his ASCE commitments with a passion seldom seen or experienced; and is one that has provided invaluable contributions to the Pittsburgh Section while inspiring our leadership with his ongoing guidance and commitment.

In addition to owning his own firm, Karl gives back to his community by being active on the Board of the Camp Kon-O-Kwee Spencer branch of the YMCA of Pittsburgh. In recognition of this service, Karl was honored with the 2003 Service to People Award. He has filled multiple roles as a Shriner, supporting 22 hospitals providing unexcelled care to children under 18 at no financial burden to them or their families. Karl has also chaired the predominant political committee in his municipality.

Working various construction jobs while at Penn State, Mr. Sieg studied Urban Transportation Planning. Out of college, Karl was first employed in the Urban Planning Department of the West Virginia Department of Highways and then with PennDOT as a Civil Engineer intern and later a structural engineer. While earning his MBA from Pitt, Mr. Sieg's career turned to water and wastewater engineering in 1976 and he became recognized for his expertise in financing public infrastructure. After gaining wide experience with several engineering firms, Karl started Sieg & Associates, Inc. in public and private sector land and water resources, engineering financing, and construction dispute resolution.

WANTED:

Newsletter Editor

Must have working knowledge of ASCE Pittsburgh Section, public policy formation, literary skill to write and compose, ability to solicit, assemble, and edit from wide variety of sources information to build and maintain professional civil engineering skills and to build and maintain understanding and appreciation among wide non-engineer readership of the importance and value of horizontal, vertical, and underground construction provided by civil engineers that establishes the foundation for the American quality of life. Nine issues per year. P.E. license not required. Contact editor.

Continued from Pg. 1

Achieving a Healthy and High Performing Building

First, there are guides to achieving a healthy and high performing building. Standards set by LEED (Leadership in Energy & Environmental Design), the Living Building Challenge, and the Passive House Institute can all be extremely helpful and they offer third party verification and certification. But if you are unable to pursue certification from one of these bodies, you can still achieve a high performing space.

Healthy and high performing buildings place a focus on the following areas of design:

- ***Site Planning:*** Ensure that building has a low impact on the surrounding environment, locating it in an area that already has infrastructure, and choosing a connected community that promotes alternative transportation.
- ***Water Management:*** Reduce potable water usage (for example, using gray water to flush toilets or installing low-flow fixtures), while also addressing issues of storm water.
- ***Indoor Environmental Quality:*** Ensure occupant health by increasing ventilation, allowing access to outdoor air and sunlight, and control of temperature.
- ***Material Use:*** Promote occupant health with non-toxic materials. Use sustainable materials that are rapidly renewable or sourced locally (to reduce the amount of energy needed for transport).
- ***Waste Management:*** Reduce the amount of construction waste going to landfill. Salvage, reuse, donate, or recycle. In operations, offer building users an easy method for recycling and even composting.
- ***Energy:*** Using the most appropriate energy for your site, Reduce the amount of energy consumed (e.g., extra insulation or a green roof will reduce the amount of heating and cooling).

Leadership in Healthy & High Performing Buildings

Address these topics whether or not pursuing an official green building certification. Codes, rules, and regulations (e.g. LEED and the Living Building Challenge) help to get started and add credibility to the project. Follow the examples of leaders in the industry. People like David Orr (Oberlin College), Jason McLennan (International Living Future Institute), and Gary Saulson (**PNC Financial Services Group**) are all pioneers who have a lot of experiences to share in this area.

By sharing our experiences and lessons learned, we can help improve the standards, educate our communities, and set an example for others to create health and high performing spaces.

Green Building Alliance is located in Pittsburgh and serves all of Western Pennsylvania. A regional catalyst, GBA strives to meet the ever-growing and changing demands of the green building marketplace through multiple programs and initiatives. Learn more at ***www.go-gba.org*** *.*

'Green' PNC Tower now under construction

Alan Biehler

Learn more about **Leadership Pittsburgh** Inc., South Pennsylvania's premier multi-disciplinary organization for leadership identification, enrichment and networking. Attend LPInc.'s Informational Coffee on Monday, April 8 to learn more about the Leadership Pittsburgh (LP) and Leadership Development Initiative (LDI). Applications for LP are due May 3, and for LDI on June 7. To register and for more information, visit **www.lpinc.org.**

Leadership Pittsburgh Inc.

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Kimberly Gill, KDKA

Pittsburgh Section Opportunities to Learn and Network

Maintain technical proficiency and current knowledge, and learn what other members, companies, organizations, and lawmakers are doing. **Mark your calendars now**.

Member prices extend to non-member spouses or one guest of member, except as noted by '*'.

March 7, 2013 NPDES Stormwater Compliance

March 12, 2013 YMF Spring Egg Hunt at the Children's Institute, Squirrel Hill

1. Children's Institute, Squirrel Hill
2. Contact **Sara Mullaney**, EIT, **Rhea Engineers & Consultants**, **724-443-4111**

March 19, 2013 YMF Leadership Seminar,

1. 7 PM
2. $10 members, $15 non-members
3. Downtown
4. **Greg Rumbaugh at gregory.rumbaugh@gmail.com by March 15th** to RSVP

March 27, 2013 Geotechnical Institute Dinner meeting

5. Factors Influencing Water Discharges From Pennsylvania Underground Coal Mine Pools
6. 6:00 PM
7. Gaetano's Restaurant, 1617 Banksville Road
8. Dinner Reservatins ARE REQUIRED
9. Contact Michael Schumaker, **412-231-5890**, **mschumaker@ventureengr.com**

April 18, 2013 EWRI What is a Total Maximum Daily Load (TMDL) Seminar

1. ESWP
2. 5:30 PM
3. Speaker: Bill Brown, Chief TMDL Development Section, Pennsylvania Department of Environmental Protection
4. Contact **Kyle Plummer**, EIT, **Gannett Fleming**, **412-922-5575**, **kplummer@gfnet.com**

May 2-4, 2013 2013 Structures Congress, Pittsburgh, PA

"Bridging Your **Passion** With Your **Profession"**

1. David Lawrence Convention Center
2. for information and to register, go to **www.structurescongress.org**

Pittsburgh Younger Members Forum (YMF) members prepared a dinner and give a presentation on civil engineering to a group of girls belonging to an organization called Girls Hope of Pittsburgh.

Girls Hope helps academically capable and motivated children-in-need to meet their full potential and become women for others by providing value-centered, family-like homes, opportunities and education through college.

The community service event involved dinner preparation, a presentation, followed by an open discussion with the scholars of Girls Hope from 10 to 17 years old. The volunteers included YMF members and members of both the Pitt and CMU ASCE Student Chapters. Thanks to scholars, house moms, volunteers, and Sandra McVeigh, Program Coordinator at Girls Hope!

To help on the next YMF community service activity, please contact **Sara Mullaney at sara.mullaney@rhea.us**.

YMF Elections Ccast your vote for the ASCE YMF 2013-2014 board vice-president, treasurer, and secretary! Polls will be open March 5th through the 15th.

2013 | STRUCTURES CONGRESS

Pittsburgh, Pennsylvania • May 2-4, 2013

Bridging Your **Passion** with Your **Profession**

STRUCTURES 2013 CONGRESS SPECIAL EVENTS FOR YOUNG PROFESSIONALS

Young Professionals: Take advantage of these events in addition to the full Structures Congress program. For more information and to register visit **www.structurescongress.org**

THURSDAY, MAY 2

MEET THE LEADERS BREAKFAST

Begin the first day of Structures Congress with breakfast for students and young professionals and a special welcome to SEI. Hear about Structures Congress highlights and meet SEI AND INDUSTRY LEADERS. Learn how THEY got their start in structural engineering and about opportunities for you to get involved in SEI. SEI leaders look forward to welcoming you and answering questions.

TECHNICAL SESSION: SOFT SKILLS FOR THE YOUNG ENGINEER

New this year!

This session focuses on the soft skills necessary for success in a competitive engineering environment, topics include: Running from Project Engineer to Project Manager, Breaking the Dilbert Habit on Public Speaking, Engineering Exceptional Technical Writers, and Leadership Development.

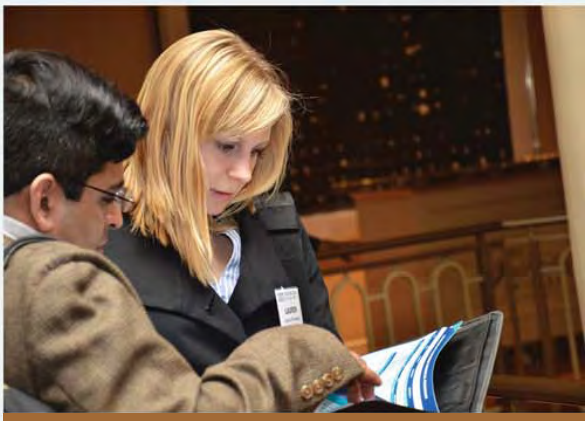
YOUNG PROFESSIONAL MIXER

Take time before the Welcome Reception for this exclusive opportunity for students and young professionals to enjoy hors d'oeuvres and beverages with SEI, committee, and corporate leaders.

FRIDAY, MAY 3

YOUNG PROFESSIONAL LUNCHEON New this year!

Join the SEI Young Professionals Committee for an informal luncheon for younger members only! Enjoy a chance to relax and get to know your fellow young engineers.



YOUNG PROFESSIONAL EVENTS AT-A-GLANCE

In addition to the full Structures Congress program of plenary events, technical sessions, and networking receptions:

THURSDAY, MAY 2

7:00 – 8:00am Meet the Leaders Breakfast

10:00 – 11:30am Soft Skills for the Young Engineer

5:30 – 6:30pm Young Professional Mixer

6:30 – 8:00pm Structures Congress Welcome Reception

FRIDAY, MAY 3

12:00 – 1:15pm Young Professional Luncheon

Structural Engineering Institute of ASCE
1801 Alexander Bell Dr., Reston, VA 20191
Tel 800-548-2723 I sei@asce.org
www.asce.org/SEI

SAVE THE DATE

April 18, 2013

EWRI
ASCE

What is a Total Maximum Daily Load (TMDL)?

SPEAKER: **Bill Brown, Chief - TMDL Development Section**
Pennsylvania Department of Environmental Protection

Time: 5:30 PM Social
6:30 PM Dinner
7:00 PM Presentation

Location: Engineer's Society of Western Pennsylvania
337 Fourth Ave.
Pittsburgh, PA 15222

Cost: $40 ASCE Members
$55 Non-Members
$10 Students

Registration: www.asce-pgh.org
or Contact: Kyle Plummer
kplummer@gfnet.com

All attendees will receive a certificate for 1.0 PDHs

RSVP No later than April 8, 2013

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