ASCE PITTSBURGH SECTION
American Society of Civil Engineers
News
Volume 96, Number 11 October 2013 www.asce-pgh.org

Transportation Funding vs. Inaction: You Pay Either Way

Inaction on transportation funding is already costing Pennsylvanians money. The Governor's Transportation Funding Advisory Commission (TFAC) recommended a comprehensive transportation funding framework to invest in our vital transportation infrastructure. Building on these recommendations, Senate Bill 1 (SB1) identifies fees and tax changes that would have a modest impact on the average driver's monthly costs* - much smaller than the costs they currently incur because of the poor roads and increased congestion caused by underinvestment.

Right now, PA drivers are paying ...	
$28 per month	**On extra car repairs & operational costs because of bad roads per month** *Source: ASCE*
$54-$85 per month	**In extra time and fuel because of traffic congestion in PA metro areas** *Source: TX Transportation Institute*

Better roads, less congestion and a safer transportation network will cost PA drivers ...	
$13* per month	**TOTAL cost of all SB1 recommendations** • **Increased vehicle and driver fees** • **Uncapped Oil Company per month Franchise Tax (if entire increase passed on to consumer)** • **Fee and fine increases**

We're already paying the cost of inaction.

The longer we wait, the more it will cost to repair and update our transportation infrastructure.

WE MUST ACT NOW.

Elected officials in Harrisburg must know that the business, professional, and community leaders in Pittsburgh and across the state support a sufficient, comprehensive and sustainable funding program for all interconnected forms of transportation, including transit. Remember:

- A comprehensive, adequate, and sustainable transportation funding package because is necessary for the economic competitiveness of the Pittsburgh region and the state.
- Without additional revenue and sufficient investment, bridges will continue to decay, highways will crumble, and transit systems will suffer.
- Half the workers in Downtown Pittsburgh and 70% in Center City Philadelphia rely on public transit to get to their jobs, decreasing lane-miles to release highway money for use on rural roads. Workers who don't ride transit benefit from less road congestion and more parking in those cities to accommodate everybody who works there.

**** For the average drive, even if ALL COSTS are passed along to the driver at the pump:***

Annual increase in costs = 12,000 miles/ yr / 24 mpg x $0.286 increase in OCFT + $16 increase in vehicle registration fee + $1.75 increase in driver's license fee = **$160.81 per year or $13.40 per month**

Lennon, Smith, Souleret Engineering, Inc.
Est. 1985
Civil Engineers and Surveyors
Coraopolis, PA (Headquarters)
Greensburg, PA (Branch)
(412) 264-4400 • (412) 264-1200 Fax
info@lsse.com • www.lsse.com
- Municipal Consulting
- Water & Wastewater
- Site Design/Layout
- Roadway & Pavement
- Public Works
- Parks & Recreation
- GIS/Mapping
- Grants Administration
- Developer Reviews

Moody and Associates, Inc.
MEADVILLE
11548 Cotton Road
Meadville, PA 16335
814/724-4970
814/724-4973 Fax
800/836-5040 Toll Free
Water Supply Services
- Water Well Drilling/Cleaning
- Cable Tool Drilling
- Pump Sales/Service
- Hydrogeologic Consulting
- Contract Drilling

Environmental Services
- Environmental Drilling
- G W Treatment Systems
- Underground Tank Removals
- Hydrogeologic Consulting
- Coal Mining Impact/Permitting

New York
342 Pannell Road
Fairport, NY 14450
315/986-4365

Pittsburgh
199 Johnson Road
Houston, PA 15342
724/746-5200

Visit us on line @
www.moody-s.com

GEO INSTRUMENTS
GEO-INSTRUMENTS
GEOTECHNICAL & STRUCTURAL INSTRUMENTS & SYSTEMS
RHODE ISLAND ■ VIRGINIA ■ WASHINGTON ■ CALIFORNIA
PHONE:800-477-2506
EMAIL:PIERRE@GEO-INSTRUMENTS.COM
WWW.GEO-INSTRUMENTS.COM
PIERRE GOUVIN

MORETRENCH
A 100% Employee Owned Company
144 Dexter Drive
Monroeville, PA 15146
Tel: 412-793-9303 | Fax: 412-793-9313
info@mtac.com
- Dewatering and Groundwater Control
- Ground Freezing
- Earth Retention and Excavation Support
- Deep Foundations
- Underpinning Systems
- Grouting Systems
- Environmental Remediation
- Industrial Construction

MORETRENCH.COM

NICHOLSON
Mid-Atlantic District
(412) 221-4500
We are Versatile Geotechnical Contractors specializing in Deep Foundations, Earth Retention and Ground Treatment techniques to help you achieve your project goals.
To learn more, visit us at
www.nicholsonconstruction.com
- ANCHORS
- AUGERCAST PILES
- DIAPHRAGM WALLS
- DRILLED SHAFTS
- GROUTING
- MICROPILES
- SECANT PILE WALLS
- SOIL MIXING
- SOIL NAIL WALLS
- SOLDIER PILE WALLS

- Civil Site Development
- Environmental Study & Design
- Geotechnical Engineering
- Water/Wastewater Engineering
- Field Monitoring/Management

DBE & WOSB/WBEC CERTIFIED
RHEA
Engineers & Consultants, Inc.
Marcella G. Johnson, PE
4975 William Flynn Highway Suite 14
Gibsonia, PA 15044
724-443-4111
www.rhea.us

2012-2013 OFFICERS

President
Ralph W. Gilbert, Jr., PE, F. ASCE
Jacobs Engineering Group
Eight Penn Center West, Suite 201
Pittsburgh, PA 152276
P (412) 249-3426
C (412) 913-1009
ralph.gilbert19@gmail.com

Past President
William Gross, PE
HDR Engineering, Inc.
11 Stanwix Street, Suite 800
Pittsburgh, PA 15222
P (412) 497-6017
bill.gross@hdrinc.com

Vice President
Kemal Niksic, PE
Hatch Mott MacDonald
1600 West Carson Street
Pittsburgh, PA 15219
P (412) 497-2944
Kemal.Niksic@hatchmott.com

Treasurer
Robert Dengler, PE
Gannett Fleming, Inc.
Foster Plaza III, Suite 200
601 Holiday Drive
Pittsburgh, PA 15220
P (412) 922-5575
rdengler@gfnet.com

Executive Secretary
Coreen Casadei, PE
Collective Efforts, LLC
462 Perry Highway, 2nd Floor
Pittsburgh, Pennsylvania 15229
P (412) 459-0114
ccasadei@collectiveefforts.com

2012-2013 DIRECTORS

Director 11-14
Donald E. Splitstone, PE
HDR, Inc.
11 Stanwix Street, Suite 800
Pittsburgh, PA 15216
P (412) 497-6038
donald.splitstone@hdrinc.com

Director 11-14
Sebastian Lobo-Guererro, PhD, PE
American Geotechnical & Environmental Services, Inc.
Southpointe Business Park
4 Grandview Circle, Suite 100
Canonsburg, PA 15317
P (724) 916-0300
sebastianl@agesinc.com

Director 11-14
Larry Souleret, PE, PLS
Lennon, Smith, Souleret Engineering, Inc.
846 Fourth Avenue
Coraopolis, PA 15108
P (412) 264-4400
lsouleret@lsse.com

Director 12-15
John C. Brigham
Asst. Professor of Structural Engineering and Mechanics
University of Pittsburgh
936 Benedum Hall
3700 O'Hara Street
Pittsburgh, PA 15261
P (412) 624-9047
brigham@pitt.edu

Director 12-15
John Havel, PE
AECOM
Gulf Tower, 707 Grant Street
5th Floor
Pittsburgh, PA 15219
P (412) 316-3604
john.havel@aecom.com

Director 12-15
Lauren E. Terpak
Project Engineer
AECOM Water
P (412) 316-3574
lauren.terpak@aecom.com

Director 13-16
Thomas Batroney, PE
Hatch Mott MacDonald
1600 West Carson Street
Pittsburgh, PA 15219
P (412) 497-2922
Thomas.Batroney@hatchmott.com

Director 13-16
Jim Radion, PE
Gannett Fleming, Inc.
Foster Plaza III, Suite 200
601 Holiday Drive
Pittsburgh, PA 15220
P (412) 922-5575
jradion@gfnet.com

Director 13-16
Damon P. Rhodes, PE
CDM Smith
301 Martindale Street, Suite 500
Pittsburgh, PA 15212
P (412) 201-5500
rhodesdp@cdmsmith.com

2012-2013 TECHNICAL INSTITUTES AND GROUPS

Geotechnical Institute
Stephanie Chechack, Chair
Gannett Fleming, Inc.
Foster Plaza III, Suite 200
601 Holiday Drive
Pittsburgh, PA 15220
P (412) 922-5575
schechak@gfnet.com

Structural Engineering Institute
Linda Kaplan, Chair
Gannett Fleming, Inc.
Foster Plaza III, Suite 200
601 Holiday Drive
Pittsburgh, PA 15220
P (412) 922-5575
lkaplan@gfnet.com

Environmental & Water Resources Institute
Jonathan D. Shimko, Chair
Tetra Tech, Inc.
400 Penn Center Boulevard
Suite 700
Pittsburgh, PA 15235
P (412) 829 3609
Jonathan.Shimko@tetratech.com

Architectural Engineering Institute
Jonathan McHugh, PE, Chair
Gannett Fleming, Inc.
Foster Plaza III, Suite 200
601 Holiday Drive
Pittsburgh, PA 15220
P (412) 922-5575

Transportation and Development Institute
Jeff Hans, PE, , Chair
Vice President
CHA Companies
1187 Thorn Run Extension
Suite 210
Coraopolis, PA 15108-3198
P (412) 264-0370
JHans@chacompanies.com

Younger Member Forum (YMF)
Angela Mayer, EIT, President
KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110
P (412) 469-9331
amayer@kuresources.com

2012-2013 FACULTY ADVISORS

University of Pittsburgh
Dr. Anthony Iannacchione, PE
University of Pittsburgh
Department of Civil Engineering
949 Benedum Hall
Pittsburgh, PA 15261
P (412) 624-8289
ati2@pitt.edu

Carnegie Mellon University
Larry Cartwright, PE
Dr. Jim Thompson, PE
Carnegie Mellon University
Department of Civil Engineering
Pittsburgh, PA 15213
P (412) 268-2940
Cartwright@cmu.edu

University of Pittsburgh, Johnstown
Brian Houston, PE
University of Pittsburgh
Johnstown Campus
Civil Engineering Technology
225 Engineering & Science Bldg.
Johnstown, PA 15904
P (814) 269-7257
Bhouston@pitt.edu

Geneva College
Robert Lijestrand, PE
ASCE Faculty Advisor
121 Dillon Street
Beaver Falls, PA 15010
P (412) 847-6717
relijes@geneva.edu

Point Part University
Dan Reed
Point Park University
201 Wood Street
Pittsburgh, PA 15222
P (412) 392-3841
dreed@pointpark.edu

2012-2013 COMMITTEES

Awards
Karl Sieg, PE
Sieg & Associates, Inc.
P.O. Box 756
Wexford, PA 15090

Budget
Robert Dengler, PE, Treasurer
Ralph Gilbert, PE, President
Bill Gross, PE, Past President
Kemal Niksic, PE, Vice President

Educational Outreach
Donald Splitstone, PE

History & Heritage
David Wright
Allegheny Co. Dept. of Engineering and Construction
501 County Office Building
Pittsburgh, PA 15219
P (412) 350-6645
dwright@county.allegheny.pa.us

Legislative Affairs
Greg Scott, PE
Buchart Horn, Inc.
Liberty Technology Center
2200 Liberty Avenue, Suite 300
Pittsburgh, PA 15222
P (412) 261-5059
gscott@bh-ba.com

Membership
Larry Souleret, PE

Nominations
Bill Gross, PE

Program Chairman
Vacant

Public Affairs & Publicity
Vacant

Webmaster
Melissa Fontanese, PE
Garvin Boward Beitko Engineering, Inc.
180 Bilmar Drive, Suite IV
Pittsburgh, PA 15205
P (412) 922-4440
mfontanese@garvinbowardeng.com

Northwestern Pennsylvania Branch President
David G. Machmer, PE
Urban Engineers
1319 Sassafras Street
Erie, PA 16501
P (814) 453-5702
F (814) 453-2020
dgmachmer@urbanengineers.com

Acting Newsletter Editor
Karl Sieg, PE

Newsletter Publisher
Enhanced Digital Printing
1709 Douglass Drive
Pittsburgh, PA 15221
P (412) 243.4100
edp@edpsolution.com

menard
Ground Improvement Specialists
275 Millers Run Road
Bridgeville, PA 15017
412.257.2750
www.menardusa.com

Defining Innovation with Sustainable Solutions
Transportation
Geotechnical
Water Resources
Environmental
Structural
Electrical
Gannett Fleming
Your Trusted Advisor Since 1915
www.gannettfleming.com
Mercer, PA ■ Phone: (724) 662-2402
Pittsburgh, PA ■ Phone: (412) 992-5575
More than 55 offices worldwide
ISO 9001:2008 CERTIFIED

CEC
Civil & Environmental Consultants, Inc.
Civil & Site Development Engineering
Land Survey Services
Environmental Services
Ecological Services
Waste Management
Water Resources
333 Baldwin Road | Pittsburgh, PA 15205
Tele: 412.429.2324
4000 Triangle Lane | Suite 200 | Export, PA 15632
Tele: 724.327.5200
Chicago | Cincinnati | Cleveland | Columbus | Detroit
Indianapolis | Nashville | Phoenix | Pittsburgh | St. Louis
www.cecinc.com

SAVE THE DATE

Thursday, January 23, 2014

6th Annual Sustainability Conference

WATER-ENERGY NEXUS

Innovative Technologies and Practical Solutions

Keynote Speaker: WILLIAM PEDUTO Pittsburgh Councilman

Phipps Conservatory
Pittsburgh, Pennsylvania

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

EWRI ASCE

CHAMPIONS FOR SUSTAINABILITY

Water and energy lie in the heart of the sustainable development of our region, nation and the world. They are inextricably linked and mutually dependent, with each affecting the other's availability. The interdependence between water and energy, often referred to as the **water-energy nexus**, is getting more attention than ever before. With demand for water and energy continuing to grow, developing new technologies and innovative, sustainable solutions in the water-energy nexus is becoming an emphasis for industry and related practitioners.

In order to achieve a sustainable growth, industry and related practitioners are developing a heightened awareness with respect to practical solutions, procedures and new technological advancements in the water-energy nexus. Several new technologies in recent years have shown great promise to be technologically viable, cost effective, and environmentally sustainable, while reliably maintaining a high quality end product that satisfies the needs of customers and users.

The Pittsburgh Section of the American Society of Civil Engineers (**ASCE**), Environmental and Water Resources Institute (**EWRI**), and Sustainable Pittsburgh/Champions for Sustainability (**C4S**) are proud to announce our 6th Annual Sustainability Conference. The conference will focus on challenges and opportunities of new, innovative technologies in the water-energy nexus. We look forward to your attendance in what should be one of our most forward looking conferences to date.

CMU Student Chapter to Host Ohio Valley Conference

The Ohio Valley Student Conference, in Pittsburgh March 27 to 29th 2014, brings over 350 civil engineers from fifteen schools from Pennsylvania, Ohio, and Kentucky.

The OVSC includes the national Steel Bridge and Concrete Canoe competitions, smaller surveying, environmental, AutoCAD, concrete horseshoe and concrete bat competitions

CMU is looking for sponsors for these various competitions and events as well as volunteers to help judge for the various competitions.

Contact **Christopher Ejiofor**, chapter president, (703)-589-2216, cejiofor@cmu.edu

Paula M. Selvaggio, RPLU
Industry Segment Leader
Architects & Engineers
SELVAGGIO TESKE + ASSOCIATES
A DIVISION OF oswald companies
Assurex GLOBAL
3401 Enterprise Parkway, Suite 101
Beachwood, Ohio 44122-7340
216 839 2800 office
216 839 2801 direct
216 839 2815 direct fax
216 469 7769 cell
pselvaggio@stassociates.net
www.oswaldcompanies.com

RDA Romualdi Davidson & Associates Consulting Engineers
Forensic Engineering & Fire Investigation
385 East Waterfront Drive
Homestead, PA 15120
412-476-8201 tel 412-476-8209 fax www.rdaweb.com

Blumling & Gusky, LLP
ATTORNEYS AT LAW
Brian Ashbaugh, Partner
ASCE Life Member
Construction & Surety Industry Practice Group
412-227-2581 Direct
bashbaugh@bglaw-llp.com
Blumling & Gusky, LLP
Pittsburgh I Greensburg
412-227-2500 Phone I 412-227-2050 Fax
www.blumlinggusky.com

HAYWARD BAKER Geotechnical Construction
Greg Simmons, P.E.
Business Development
800-456-6548
www.HaywardBaker.com
FOUNDATION SUPPORT • SETTLEMENT CONTROL
UNDERPINNING • GROUNDWATER CONTAINMENT
EXCAVATION STABILIZATION
COMPLETE GROUND MODIFICATION SOLUTIONS AND SERVICES
SPECIALTY FOUNDATION CONTRACTOR

GARVIN BOWARD BEITKO
BUILT ON REPUTATION
CONSULTING GEOTECHNICAL, FORENSIC, ENVIRONMENTAL & MATERIALS SCIENCE ENGINEERS
Garvin Boward Beitko Engineering, Inc.
Pittsburgh Office
180 Bilmar Drive, Suite IV
Pittsburgh, PA 15205
Phone: 412.922.4440
jboward@garvinbowardeng.com
Somerset Office
632 Center Avenue, Apt. A
Somerset, PA 15501
Phone: 814.443.2548
cledney@garvinbowardeng.com

Engineering • Planning • Construction & Environmental Services
gai consultants
transforming ideas into reality
GAI-Pittsburgh
385 East Waterfront Drive
Homestead, PA 15120-5005
412.476.2000 I gaiconsultants.com

www.agesinc.com
American Geotechnical & Environmental Services, Inc.
Southpointe Business Park
4 Grandview Circle
Canonsburg, PA 15317
Phone: 724-916-0300
Fax: 724-916-0315

Christopher R. Ryan P.E.
President
cryan@geo-solutions.com
Geo-Solutions
Soil & Groundwater Problems Solved.
1250 Fifth Avenue New Kensington, PA 15068
T 724-335-7273 F 724-335-7271 C 412-999-5432
www.geo-solutions.com

PARSONS BRINCKERHOFF
www.pbworld.com
- Strategic Consulting
- Planning
- Engineering
- Program & Construction Management
- Operations

TRIAD Listens, Designs & Delivers.
TRIAD ENGINEERING, INC.
Civil Engineering
Geotechnical Engineering
Environmental Services
Survey and Mapping
Drilling and Sampling
Laboratory Testing
Construction Monitoring
www.triadeng.com
Offices in: MD | OH | PA | VA | WV

L.R.Kimball
ARCHITECTURE · ENGINEERING · COMMUNICATIONS TECHNOLOGY
A CDI Company
www.lrkimball.com
615 West Highland Avenue
Ebensburg, PA • 814.472.7700
Frick Building, N. Mezzanine
437 Grant Street
Pittsburgh, PA • 412.201.4900

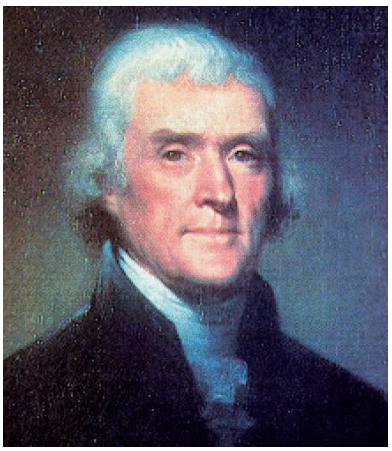
Engineering Services Since 1956
Civil
Mining
Geological
Geotechnical
Environmental
Water Resources
D'APPOLONIA
275 Center Road, Monroeville, Pennsylvania 15146-1451
www.dappolonia.com 412/856-9440 fax: 412/856-9535

RAUDENBUSH ENGINEERING, INC
MIDDLETOWN | PITTSBURGH | NEW STANTON
RaudEng.com
GREEN BY DESIGN
WORKING HARD, WORKING SMART.

HRG
Herbert, Rowland & Grubic, Inc.
Engineering & Related Services
[BUILDING RELATIONSHIPS. DESIGNING SOLUTIONS.]
A Full-Service Engineering & Related Services Firm
LAND DEVELOPMENT • TRANSPORTATION
WATER RESOURCES • WATER/WASTEWATER & ENERGY
GIS • SURVEYING • ENVIRONMENTAL • FINANCIAL
MECHANICAL/ELECTRICAL/PLUMBING
724.779.4777 • www.hrg-inc.com

Providing sustainable solutions
to keep the public and economy moving
Planning | Design | Construction
Operations | Maintenance
JACOBS
WWW.JACOBS.COM

Why Should We Pay Taxes to Build and Maintain Roads?



The Scottish Enlightenment philosopher and loadstar for the Founding Fathers, Adam Smith wrote in *The Wealth of Nations*…

> *According to the system of natural liberty, the sovereign has only three duties to attend to . . . First, the duty of protecting the society from violence and invasion . . . secondly, the duty of protecting, as far as possible, every member of society from the injustice or oppression of every other member of it . . . and, thirdly, the duty of erecting and maintaining certain public works and certain public institutions, which it can never be for the interest of any individual, or small number of individuals, to erect and maintain; because the profit would never repay the expense to any individual or small number of individuals, though it may frequently do much more than repay it to a great society.*

Article I, Section 8, Clause 7 of the U.S. Constitution followed soon afterwards. Known as the Postal Clause, it empowers Congress "To establish Post Offices and Post Roads." Recognized primarily to facilitate interstate communication and commerce, there was disagreement as to Congress's involvement in road building. Thomas Jefferson considered road building to be primarily a state responsibility. However since the founding of the Country, "certain public works" or infrastructure has been recognized as a core function of government.

Recently, some have advocated that both state and federal government should not fund infrastructure, or that infrastructure should somehow pay for itself. This outlook has created gridlock in Legislatures across the country, as advocates for the construction industry and the private employers who benefit from public infrastructure seek funding to address the deteriorating condition of America's Infrastructure (See ASCE's 2013 Report Card) but some vocal opponents insist that is not the will of the people.

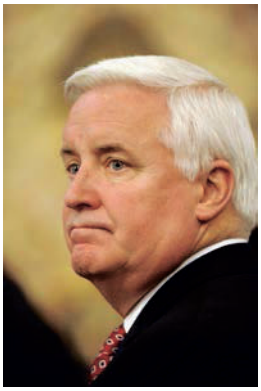
Is this how the public feels? In May of 2013, the American Road & Transportation Builders Association released a first-ever national poll conducted to see how valuable Americans think our road and transit network is to the nation, our everyday life, and relative to other modern necessities we routinely rely upon. Key finding included:

- Many Americans are not sure how much money we personally pay every month to maintain and improve the roads, bridges and public transit we use. But 75% of respondents said having safe, efficient and well-maintained transportation infrastructure is at least, if not more, important to their personal livelihood and well-being than good cable, cell phone, internet, water, sewage and household electricity and natural gas services.
- 8-in-10 of respondents (78%) said driving a motor vehicle is "very" or "extremely" important to our ability to conduct our daily lives. Twenty-one percent (including 34% of low income respondents) say the same about using public transportation;
- Nearly 9-in-10 (88%) said transportation infrastructure is important to maintaining a strong U.S. economy;
- 83% said our transportation network is important in ensuring national defense and emergency response capabilities;
- And no matter where we live — whether rural or urban — 71% of respondents agreed that growing traffic congestion in U.S. metropolitan areas is making products

we buy everywhere more expensive because congestion increases transportation costs for businesses;

- Not surprisingly, given the importance we place on transportation assets, 74% of us agree that "investing in transportation infrastructure should be a core function of the federal government."

So the majority of American's understand what our Founding Fathers knew and what ASCE has demonstrated in its Failure to Act Study: that adequately maintained and robust infrastructure is critical for America's economic prosperity and it will affect everyone's pocketbook if we fail to do so.



In Pennsylvania, Governor Corbett recognized the essential nature of this core government function and after creating the Transportation Funding Advisory Commission (TFAC), which recommended broad increases in transportation funding. Tom Corbett made it one of his 2013 goals. The Senate agreed and advanced a funding bill, but the Pennsylvania House has not advanced a bill to the floor.

ASCE has lent its support to a myriad of industry organizations, business interests, private companies and regional chambers of commerce in support of additional transportation funding, but it appears this is not enough. In the end, individuals have to express what they expect their government to do for them.

I strongly encourage every ASCE member to demand that Pennsylvania address its economic future by…

- Supporting a transportation funding plan that is ***comprehensive*** in addressing all modes, is ***adequate*** to address the problem, and is ***sustainable*** for years to come.
- Supporting a transportation funding plan that will lead to ***jobs now*** – engineers, construction laborers and equipment operators, suppliers, etc. – and create tangible assets that will lead ***to new jobs and investment in the future*** for all those who use transportation to get to work, shopping, worship and recreation.
- Supporting investing in transportation as ***a core function of government***, and one that the Commonwealth cannot avoid the challenge of any longer.

For more information, contact **Gregory Scott, P.E.**
Chairman, Construction Legislative Council
Past President, ASCE Pittsburgh Section
at **Buchart Horn Inc., 412-261-5059, Gscott@bh-ba.com**

Civil Engineer Position Available

Jacobs Engineering Group in Pittsburgh is seeking a civil engineer with 5-10 years experience on both highway and site development projects.

Necessary skills involve proficiency in Inroads and Microstation software.
Familiarity with Site Civil and AUTOCAD software is not required, but considered a benefit.
Work experience on PennDOT and PTC projects preferred.
Work experience with municipal projects concerning other infrastructure is a bonus.
A Bachelor's of Science degree in Civil Engineering required.
A Pennsylvania Professional Engineering License is not necessary but desired.
Applicant should be open to developing skills most associated with highway engineering but should also be open to broadening skill set with site development and other areas. Although the job doesn't currently require construction inspection experience, this experience would be seen as beneficial as well. Limited local area travel occasionally required. Interested candidates contact Chris Nash at 412-249-3480.

EARTH, INC.
THE GRISTMILL - SUITE 100
101 BELLEVUE ROAD
PITTSBURGH, PA 15229-2107
(412) 931-6393
FAX: (412) 931-2820
GEOTECHNICAL CONSULTING ENGINEERS
THE GRISTMILL- SUITE 100
101 BELLEVUE ROAD
PITTSBURGH, PA 15229-2107
(412) 931-6393
FAX (412) 931-2820
e-mail: earth@earthincorp.com

KAG ENGINEERING, INC.
Consulting Engineering & Land Surveying
2704 BROWNSVILLE ROAD
PITTSBURGH, PA 15227
Kimberly A. Gales, P.E.
President
(412) 885-8888
FAX (412) 885-5146

Always On Call - 412.921.4030
gatewayengineers.com
GATEWAY
A FULL-SERVICE CIVIL ENGINEERING FIRM

CDM Smith
listen. think. deliver.
503 Martindale Street, Suite 500
Pittsburgh, Pennsylvania 15212
412.201.5500
cdmsmith.com

HETAGER DRILLING
SINCE 1952
We Specialize in:
Geotechnical
Hollow Stem Auger
Diamond Core Drilling
Environmental
Monitoring Wells • Air Rotary
Mining & Construction
Minerals • Coal • Clay
1857 Woodland Ave., Ext.
Punxsutawney, PA 15767-2833
Phone: (814) 938-7370
www.hetager.com

BRAYMAN construction corporation
Heavy Civil and Geotechnical Contractors
Foundations • Heavy Civil • Demolition • Steel Erection
1000 John Roebling Way • Saxonburg, PA 15056
p. 724-443-1533 • f. 724-443-8733
Safety is our attitude for life
www.brayman.com

DIGIOIA GRAY & ASSOCIATES
CONSULTING ENGINEERS AND SCIENTISTS
WWW.DIGIOIAGRAY.COM
570 Beatty Road
Monroeville, PA 15146
Office: 412-372-4500
Fax: 412-372-1972

SENATE ENGINEERING COMPANY
Road & Bridge Design - Bridge Inspections
Site Development - Stormwater Management - Permitting
Water & Wastewater Systems - Funding Acquisition
Surveying & Mapping - GPS - CADD - GIS
Kittanning, PA
Ph (724) 548-1770
Pittsburgh, PA
Ph (412) 826-5454
Fax (412) 826-5458
Washington, PA
Ph (724) 228-6446

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 '*'.

October 3, 2013 Thursday, Geotechnical Institute
Terzaghi Lecture – Problems Solved and Challenges Remaining

1. Pittsburgh Athletic Association
2. 6:00 pm
3. Five-star Dinner
4. Speaker: David F Daniel, P.E., President, University of Texas at Dallas
5. Contact Stephanie Chechak, **412-922-5575**, schechak@gfnet.com or
6. Register at www.asce-pgh.org

Until October 4, 2013 Friday, CANstruction

1. Go see the bridge at Robinson Mall!

October 4, 2013 Friday, J&L Steel Tour

1. 2:00 – 4:00 pm.
2. J&L Steel slag and pig iron recycling site, Monaca
3. Closed Toe shoes required.
4. $10 / person
5. 1 PDH can be earned at this event.
6. Linda Kaplan, **412-922-5575**, lkaplan@gfnet.com

October 11, 2013 Friday, YMF Oktoberfest

1. 5:30 pm.
2. BZ Bar and Grille, North Shore
3. FREE! YMF provides appetizers.

November 19, 2013 Thursday, SEI Dinner meeting

1. 6:00 pm.
2. Jay Fitzgerald speaker
3. BRADD Software for Automated Simple Span Bridge Design/Drafting
4. $35/member, $50/ non-member, $10/ student
5. 1 PDH can be earned at this event.
6. Contact Linda Kaplan, **412-922-5575**, lkaplan@gfnet.com

November 14, 2014, Thursday, Geo-Institute Dinner Meeting

1. Rehabilitation of Thorn Run Dam
2. Gaetano's Restaurant

November 15, 2013 Friday, 21+ Night

1. 6:00 – 10:00 pm.
2. Carnegie Science Center, North Shore
3. $10 in advance, $15 at the door.
4. Contact Lauren Dziagwa, **724-519-7361**, lmdziagwa@TLCGroupEng.com

Senior Project Engineering Manager

Great opportunity to shape Pennsylvania Water/Wastewater Engineering Practice. This professional is responsible for successfully managing all aspects of projects including financial, safety, quality and schedule. Projects will range in size from $10,000 to $3M and include study, design and construction management for water, wastewater and stormwater activities. The individual will also be responsible for helping to build the regional water business by executing the business plan, including staff recruitment and sales activities such as strategy meetings, client meetings, professional engagement in associations and proposal preparation. Position will be billable 50-75% of time. Individual will mentor team and seek to build a high performance, highly sought after engineering group Requirements: BS and/or MS in Civil Engineering, PE License in the State of Pennsylvania, 15 years of experience in municipal and private water and wastewater consulting, minimum of 10 years experience as a project manager. Interested candidates please contact Chris Nash at 412-249-3480.

JACOBS

TMDL PART 3

In the last newsletter articles the basics of TMDLs (Total Maximum Daily Loads) were introduced, why one should be interested, what they are and how they are developed.

TMDLs on water bodies were compared to the total load applied to a bridge.

Background information is collected in an Aquatic Life Use survey (ALU survey) on the ability of the organisms in the water body to withstand the pollutants and nutrients loaded into the water body.

This information is based on a presentation made to members of the Environmental and Water Resources Institute in the Pittsburgh Section of ASCE by Bill Brown, Chief of the TMDL Development Section in the Division of Watershed Protection of the Pennsylvania Department of Environmental Protection.

TMDLs Developed to Address Sources of Pollution

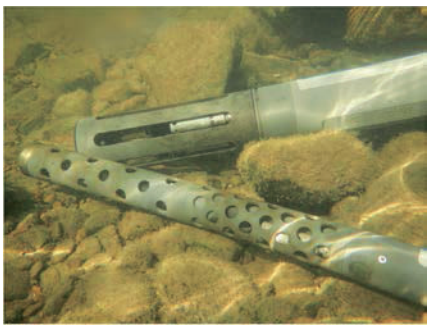
Elements of a TMDL

- Evaluate watershed land use and all potential sources of the pollutant causing the impairment
- Apply appropriate WQS goals
- Use water quality and land use models to calculate total allowable load (TMDL), allowable nonpoint source load (load allocation) and allowable point source load (WLA)
- Include a Margin of Safety (MOS)
- Demonstrate reasonable assurance that the proposed TMDL can be met
- Allow for public participation

Water Chemistry

The sampling scheme depends on:

- • Pollutants
- • Suspected sources
- • Model requirements



Next issue: The kinds of things that are sampled

For more information, contact **Bill Brown**, at **PADEP**, **717-783-2951**, **willbrown@state.pa.us**

geotechnics 25 TWENTY-FIVE YEARS geotechnical & geosynthetic testing
www.geotechnics.net
Pittsburgh, PA (412) 823-7600
Raleigh, NC (919) 876-0405

"WE LOOK INTO THE EARTH"
CORE DRILLING
AUGER DRILLING
SOIL SAMPLING
MONITORING WELLS
INCORPORATED 1900
PENNSYLVANIA DRILLING COMPANY
281 Route 30
Imperial, PA 15126
T. CALEB STURGES
ASSISTANT MANAGER
csturges@penndrill.com
Phone (724) 695-2400
Fax (724) 695-2455

Gibson-Thomas Engineering Co., Inc.
Consulting Engineers ISO 9001-2008 Certified
Established 1916
Water • Wastewater • Bridge & Highway • Civil & Municipal
Corporate Office:
1004 Ligonier Street
P.O. Box 853
Latrobe, PA 15650
Telephone: (724) 539-8562
GTEmain@gibson-thomas.com
Harrisburg Area Office 717-612-9880
Pittsburgh Area Office 724-935-8188
Clarion Area Office 724-526-2190
Indiana Area Office 724-471-2246
www.gibson-thomas.com

when quality matters
THE EADS GROUP
Engineering Architecture and Design Services
Since 1955
412.754.0801
www.eadsgroup.com
Altoona - Clarion - Johnstown - Pittsburgh - Somerset - Cumberland

PCR Paul C. Rizzo Associates, Inc.
ENGINEERS/CONSULTANTS/CM
GEOTECHNICAL | SEISMIC
OIL & GAS | ENVIRONMENTAL
STRUCTURAL | HYDROLOGY
ENGINEERING FOR THE FUTURE!
www.rizzoassoc.com

GD&F
814.943.5214
GWIN DOBSON & FOREMAN
CONSULTING ENGINEERS
3121 FAIRWAY DRIVE ALTOONA PA 16602
FAX 814.943.8494 WWW.GDFENGINEERS.COM

psi Information To Build On
Engineering • Consulting • Testing
One Company, One Call.
850 Poplar Street
Pittsburgh, PA 15220
Phone: 412.922.4000
Fax: 413.922.4013
www.psiusa.com
• Geotechnical Engineering
• Construction Materials Testing & Engineering
• Environmental Consulting & Assessment
• Industrial Hygiene Services
• Asbestos Surveys & Consulting
• Lead Based Paint Surveys & Consulting
• Facilities & Roof Consulting
• Nondestructive Examination & Testing
• Steel Testing & Inspection
• Specialty Engineering & Testing

PITTSBURGH SECTION
American Society of Civil Engineers

c/o Engineer's Society of Western PA
337 Fourth Avenue
Pittsburgh, PA 15222

Non-Profit Org.
U.S. Postage
PAID
Pittsburgh, PA
Permit No. 768

American Society of Civil Engineers
PITTSBURGH SECTION
www.asce-pgh.org

The Newsletter is published monthly except June, July and August. Electronic copies are delivered to all Pittsburgh Section members. Hard copies are mailed on request to the editor. ***Deadlines for all material is the first Friday of the month prior to publication.*** To change your address and to update your membership information, go to the website www.asce.org and select "Update Your Membership" under the "Members Only" link, or call (800) 548-2723 and ask for the membership department. Also contact the editor so that the change(s) can be made to the local database.

This will NOT update your ASCE Pittsburgh Section E-Newsletter subscription Please update your E-Newsletter subscription at http://lists.asce.org/mailman/listinfo/ascepittsburghsection. To have the E-newsletter sent to another address you must unsubscribe the old address and subscribe with the new address.

Disclaimer: The American Society of Civil Engineers and the Pittsburgh Section are not responsible for any statement made or opinion expressed in this publication. Editorials represent the official policy of the Pittsburgh Section.

Acting Editor: Karl Sieg, P.E.
Phone: (724) 935-2040
Email: kpspe@fyi.net

IN THIS ISSUE

Transportation Funding vs. Inaction 1
Board of Directors 2
6th Annual Sustainability Conference 3
CMU Student Chapter to Host Ohio Valley Conference 3
Why Should We Pay Taxes to Build & Maintain Roads? 4-5
Civil Engineer Position Available 5
Pittsburgh Section Opportunities to Learn & Network 6
Senior Project Engineering Manager Postition Available 6
TMDL Part 3 7