The Magazine of the Pennsylvania Society of Professional Engineers





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NSPE Code of Ethics for Engineers Engineers' Creed

As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare. I pledge:

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the laws of man and the highest standards of professional conduct;

To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations.

In humility and with need for Divine Guidance, I make this pledge.

Adopted by National Society of Professional Engineers, June 1954

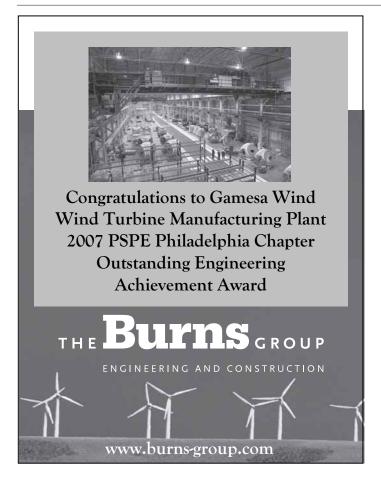
Table of Contents

Columns

President's Message	3
On Capitol Hill	5
Classified	13
Membership	14
Polital Action Committee Update	18
Member Spotlight	20
Features	
The Gamesa Wind Turbine Plant	8
PSPE 2007 Annual Conference	
Positive Attitude	17
Advertisers	
Barry Isett & Associates	16
Buchart-Horn, Inc.	
C.S. Davidson, Inc.	
Cayuga Concrete Pipe	
Cowan Associates, Inc.	
Engineering Mechanics, Inc.	
ESWP - IBC	
F.T. Kitlinski & Associates	
Fenner & Esler Insurance	
GAI Consultants Inc.	
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Cover Photo

Shown on the cover is an overview of the Nacelle assembly bay, showing refurbished bridge cranes, new semi-gantry cranes, and component assembly and testing stations. See page 8 for the complete story of the Gamesa Wind Turbine Plant (The Burns Group).





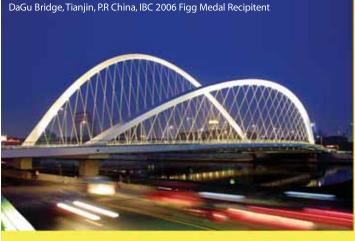
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President's Message

Harvey D. Hnatiuk, P.E., F.NSPE

What Can We as PEs Do?

I doubt that a solid argument could be built against the statement that Americans are among the most generous people in today's world. When tragedy and disaster strike in any corner of the world, the citizens of our nation provide their time, talent and treasure to help fellow human beings who are in desperate need of timely assistance.

In times of trouble, the culture that is America includes always such questions as:

"What can I do to help?"

"How can I make things better?"

"Who else can I get to help the cause?"

I have always believed that Professional Engineers are among the most civic-minded people in our nation. For instance, I would guess that the percentage of us who vote in elections ranks very high among all professions. I believe that you will find a lot of PEs on the councils or committees of their churches, synagogues and mosques.

The people who have helped or offered to help others in times of trouble (such as 9-11 and Katrina) include a lot of PEs.

PEs have done these things while keeping in the fore the mission to protect the health and welfare of our fellow citizens...neighbors, family, co-workers, people we don't know, whomever.

Technically, we as Professional Engineers know that we must continually hone our skills and that networking with other engineers is important for a number of reasons including business development and employee recruitment.

Many members of PSPE are also members of one or more technical societies

such as ASHE, ASCE, IEEE, ASHRAE, ASME and ISA. We know that we need to keep in touch with technical advancements and to bounce ideas off of each other.

Professionally, we really only have one organization that concerns itself with the protection of our PE licenses and the many attacks on that license. We have one organization that has committed itself to elevate the title of Professional Engineer. We have one organization that is striving to increase the awareness - of the business owners, municipal authorities, local governments, manufacturers, educators and our fellow citizens in general - of what Professional Engineers bring to the table each and every day.

In the Commonwealth of Pennsylvania, that organization is the Pennsylvania Society of Professional Engineers...our PSPE. For our great organization to reach higher goals of membership, activity and visibility, each one of us needs to ask:

"What one more thing can I do to help?" "What initiative can I lead to make things better?"

"Whom can I engage to help the cause?" There is much ahead of us as we enter the final furlongs of our trip together this year. There is much that we can do to close out this PSPE year with ever-increasing momentum.

May 8th is Engineers Legislative Day in Harrisburg. ASCE reached out to PSPE to be a major part of this proactive effort to discuss major issues of importance to our fellow citizens and our profession with our state representatives and senators at the Capitol.

"Life's persistent and most urgent question is: 'What are you doing for others?"" Martin Luther King, Jr.

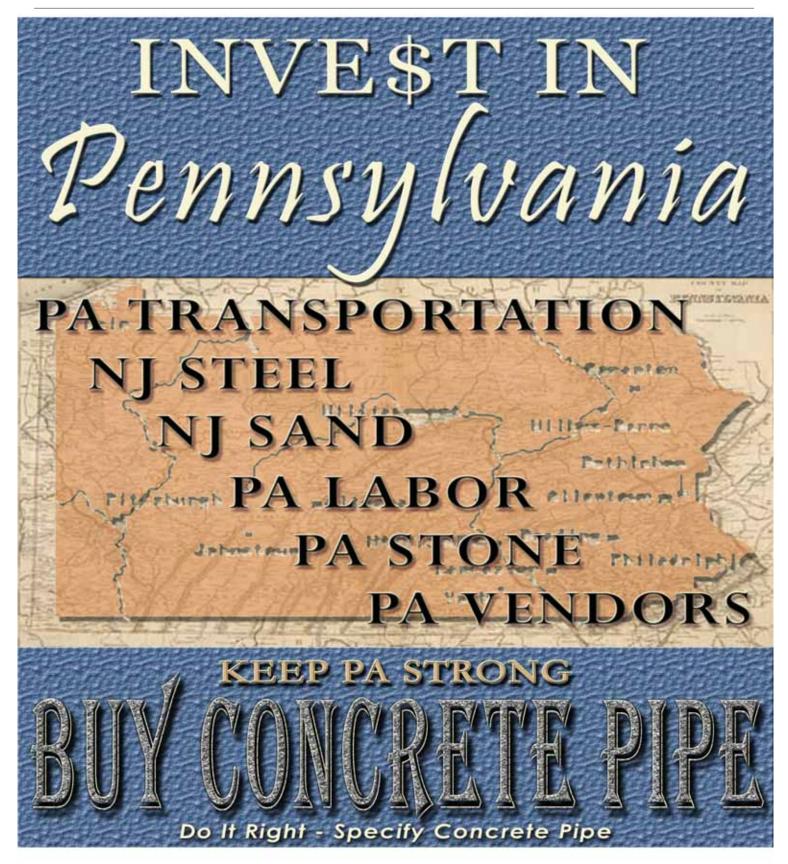
Please be there as part of the PSPE contingent. This is a tremendous opportunity for us to state our case as Professional Engineers.

Perhaps your Chapter has an empty seat on its Board of Directors or an officer's position that is vacant. Please consider filling one of those seats. Or, encourage someone whom you believe is ready to step forward if only asked to do so. Take the chance! There are so many rewards that come with getting involved or re-involved.

This issue of the PE Reporter includes information about and registration materials for our Engineers Conference in Reading, May 31-June 2. Being a part of this congregation of fellow PEs is a "win-win" of the highest order, offering educational as well as networking opportunities galore. Not to mention: A whole lot of fun and camaraderie.

Sometimes it is great to be able to answer the question "What are you doing for others?" while at the same time doing something for yourself and for your fellow PEs.

You can do that by engaging more and more in PSPE.



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On Capitol Hill

John D. Wanner, CAE

ADR For Home Owners Proposed

A bill that would require an Alternative Dispute Resolution (ADR) system for disputes between homeowners and home builders was introduced in the Pennsylvania House of Representatives in March. Engineers who perform work for a homeowner or home association are treated the same as contractors in this legislation. House Bill 558 lays out a very specific set of actions and timeframes that must be met in order to validate a claim. A similar bill for contractors was vetoed last legislative session by Governor Rendell. Much of the media painted that legislation as making it more difficult for home owners to get action on shoddy workmanship and ultimately the Governor agreed.

As an alternative, the Pennsylvania Senate is moving a bill that would require home improvement contractor registration. That bill, Senate Bill 100, does not cover engineers. It has already passed through the Senate Consumer Protection and Professional Licensure committee and appears to be the preferred approach at this time. No immediate action is expected on House Bill 558.

Home Inspectors Licensing Bill Introduced

Abill that would transform Pennsylvania's home inspector registration program into a more traditional licensing board was introduced in the Senate this month. Senate Bill 359 creates a licensure board for home inspectors much like the existing boards for engineers, architects, medical doctors and other professions. Several years ago, PSPE led a legislative effort to make it clear that professional engineers need not be registered as home inspectors in order to provide home

inspections services. That effort was successful, but Senate Bill 359 eliminates those provisions. In the event that this legislation is ever considered, PSPE will again lobby to protect the ability of a professional engineer to offer home inspection services. Senate Bill 359 was introduced by Senator Greenleaf and has been referred to the Senate Consumer Protection and Professional Licensure committee.

Highway Milling Issue Spurs Prevailing Wage Act Bill

Last Spring, the question of whether certain types of road resurfacing are covered by the Prevailing Wage Act caused a flurry of news stories and a political tug of war. At that time, the Department of Labor and Industry was forced to withdraw its determination that road milling was covered by the Act when the Governor interceded on behalf of municipalities and prevailing wage opponents. The Governor agreed to study the issue, but no new official action has been evident since then. In what appears to be a preemptive strike, some Senate Republicans are proposing to amend the Prevailing Wage law by redefining the term "maintenance." Maintenance construction work is not subject to prevailing wages. Senate Bill 333, introduced by Senator Mike Waugh (R.) of York County, further defines maintenance work to include:

"Replacement in kind, or compliance with current Department of Transportation design criteria and standards, of guide rails, curbs, pipes, line painting and other related road

Repair of pavement service by:

(i) laying bituminous material up to three and a half inches thick or up to four hundred

twenty pounds per square yard on asphalt pavement, cement, concrete or other hard surface, including associated milling, and related work raising existing paved shoulders to new grade; or

- (ii) patching of a cement or concrete surface to include joint spalling and repair work.
- (iii) Widening of existing alignment which does not result in additional lanes or new shoulders.
- Bridge cleaning, washing, resurfacing with blacktop, minor non-structural repairs or improvements and painting except when combined with complete bridge rehabilitation."

Senate Bill 333 has been referred to the Senate Labor and Industry Committee.

Legislative Activity

HB 203 RE: Fire Safety Act (Rep. Bob Belfanti, et al)

Provides for safety requirements for facilities, including automatic sprinkler systems, fire alarms and emergency use communications. The bill also creates the Fire Safety Fund, which would provide low-interest loans to facilities to install or retrofit automatic water sprinkler systems or automatic fire suppression or control systems and automatic and manually activated fire alarm systems installed to transmit an alarm automatically to a fire department and to procure alternate forms of emergency communication in facilities. Press Conference held, 3/20/2007

SB 437 RE: UCC Exclusions (Sen. Bob Regola, et al)

Amends the PA Construction Code Act further providing Section R404.1 and Tables R404.1(1), R404.1(2) and R404.1(3) of the 2006 "Capitol" continued to p. 7

Announcing A Revolutionary Concept In Insurance For Pennsylvania Engineers: A Choice.

When it comes to professional liability insurance, about the only choice available for engineers has been "take it or leave it." With limited options available it's no wonder so many engineers overpay for the coverage they know they need. Or worse, leave themselves exposed because adequate coverage is simply unaffordable.

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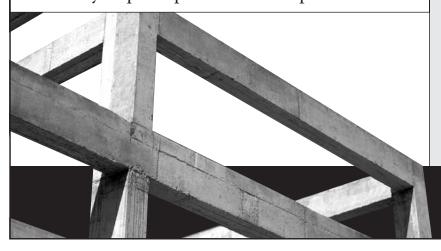
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475 Allendale Road, King of Prussia, PA . 610 354 9700 114 N. Second St., Harrisburg, PA . 717 238 9300 1814 E. Route 70, Cherry Hill, NJ . 856 663 0021 "Capitol" continued from p. 5

International Residential Code and its successors are not a part of the Uniform Construction Code. Also provides for the provisions that would apply to the Uniform Construction Code regarding concrete and masonry foundation walls.

Referred to Senate Labor and Industry Committee, 3/5/2007 Passed Senate, 3/20/2007 (50-0)

New Bills Introduced

HB 437 RE: Referring of Cases (Rep. Frank Dermody, et al)

Amends the act "empowering the General Counsel or his designee to issue subpoenas for certain licensing board activities; providing for hearing examiners in the Bureau of Professional and Occupational Affairs; providing additional powers to the Commissioner of Professional and Occupational Affairs; and further providing for civil penalties and license suspension" by defining a general rule for referring cases to district attorneys, and clarifies that nothing in bill should be construed to limit the authority of a licensing board or commission with regards to its referring a disciplinary matter to the attorney general. This was part of the "Gannon Package" last session (HB 2104) Referred to House Judiciary Committee, 2/26/ 2007

HB 456 RE: Competitive Bidding (Rep. Rob Kauffman, et al)

Amends The Second Class Township Code further providing for competitive bidding of contracts by adding that all contracts or purchases in excess of the required advertising amount of \$18,000 (increased from \$10,000) may not be made except with and from the lowest responsible bidder after due notice in one newspaper of general circulation in the township. Additionally, written or telephonic price quotations from at least three qualified and responsible contractors would be requested for all contracts that exceed \$7,000 (increased from \$4,000). The legislation provides for the annual adjustment of these amounts based on the Consumer Price Index for All Urban Consumers

Referred to House Local Government Committee, 3/6/2007

HB 472 RE: Separations Act Waivers (Rep. Steve Nickol, et al)

Amends the Public School Code further providing for work to be done under contract let on bid by adding that the department may approve a waiver of the provisions that require separate contracts for the construction, reconstruction, repairs, maintenance or work of any other nature upon a school building, school property or a building or portion of a building leased under the provisions of section 703.1

Referred to House Education Committee, 2/ 26/2007

HB 595 RE: Information Supplied by Licensees (Rep. Dave Millard, et al)

Amends the act entitled "An act empowering the General Counsel or his designee to issue subpoenas for certain licensing board activities; providing for hearing examiners in the Bureau of Professional and Occupational Affairs; providing additional powers to the Commissioner of Professional and Occupational Affairs; and further providing for civil penalties and license suspension" by adding that a licensee, registrant, certificate holder or permit holder has the duty to provide information, documents and records requested by a licensing board or licensing commission when the licensing board or licensing commission is investigating or prosecuting a disciplinary matter. Failure to provide information, documents or records requested by a licensing board or licensing commission would constitute unprofessional conduct and may result in license suspension or revocation, a fine up to \$1,000, or both. This was part of the "Gannon Package" last session (HB 3083) Referred to House Professional Licensure

Committee, 3/6/2007

"Capitol" continued p. 19

Professional License on Inactive Status

PSPE is frequently asked how a Professional Engineer can place his or her license on inactive status. Based on the state registration board's web site under Frequently Asked Questions:

INACTIVE STATUS & YOUR RENEWAL APPLICATION –

Engineer, Land Surveyor or Geologist

Placing your license on "Inactive Status" indicates that you will not be practicing your profession in the Commonwealth while on "inactive" status, nor will you have to pay the renewal fee at this time if placed on "inactive" status. If you wish to reactivate at any time in the future, you may do so by contacting the Board office and pay only the renewal fee required at that time.

Please note that you will not receive any mailings from this Board while on "Inactive" status and a licensed professional engineer, land surveyor or geologist may not hold himself out as a professional engineer, land surveyor or geologist unless he has a current biennial registration.

Source: http://www.dos.state.pa.us/bpoa/lib/bpoa/20/eng_board/faqs_-_engineer_board.pdf; April 4, 2007.

Pennsylvania State Registration Board for Professional Engineers, Land Surveyors and Geologists

PO Box 2649

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Photo: Nacelle production area where 2 MW power generators are assembled and tested. Also shown are the overhead bridge and gantry cranes used to move the 90-ton Nacelles.

The Gamesa Wind Turbine Plant



An Innovative Facility for an Innovative Product

Bruno Fiorentino, PE and Lisa Criniti-Ciervo

Once discarded as a mere curiosity, Wind Power is quickly becoming a viable mainstream solution to our search for a clean, cost effective energy source.

Wind power generation is exploding in the U.S., with capacity increasing by almost 30% in 2006 and forecasts for equally strong growth in 2007. This growth reflects our increasing demand for renewable energy that is clean, safe and domestically produced. Although Europe is currently well ahead of the U.S. in wind energy production, the U.S. is quickly moving to close the gap.

Over the past few years, the modern "Windmill" has advanced to become a technological marvel. When assembled and operational, a wind powered generator structure stands over 300 feet tall, weighs 200 tons, and generates two megawatts of electricity from a gentle 20 mile per hour breeze. When installed in their ridge top "Windfarms" the systems can match the electric

generating capacity of traditional fossil fuel generating plants.

Gamesa Wind Inc., the world's second largest wind power generator manufacturer, was looking to build a new U.S. production facility to capitalize on the fast growing U.S. wind power market. Gamesa needed a facility with huge spatial capacity and tremendous structural integrity to support 90-plus ton loads on cranes, along with good proximity to rail, cargo and interstate transportation. Even more important to Gamesa's success was speed. The exploding demand for their products required Gamesa to be operating and in production in less than six months.

Gamesa considered the former U.S. Steel Fairless Hills Site, a Brownfield site in Bucks County, PA. The mill, abandoned for over 12 years, had fallen into disrepair with a decaying building envelope, asbestos, lead paint, PCBs and environmental exposure from steel production processes since the 1950's. The Burns Group, a leading engineering and

construction management firm headquartered in Philadelphia, PA , studied ways that renovating the old US Steel facility could help Gamesa achieve their production goals as quickly as possible. Favorable aspects of renovating included:

- Critical savings of almost a year and tens of millions of dollars compared to new construction.
- A steel structure that supports 100-foot wide bridge cranes, which fully loaded weigh over 400,000 pounds each.
- A rail network and port facility to handle logistical needs to transport these components to wind farm sites throughout North America.
- Industrial bridge cranes that could be restored with new modern hoists and radio control features. This feature alone saved many months and hundreds of thousands of dollars
- 60-foot high bays and 100-foot spans that provided the required manufacturing clearances.

If the design, site logistics, construction and permitting hurdles could not be overcome, Gamesa would keep looking at alternative sites around the U.S. By trusting Burns' feasibility study, Gamesa selected the site, and Burns to provide creative engineering solutions. Burns was able to help Gamesa achieve their goals by:

- Developing an accelerated schedule. By reusing an existing building rather than beginning with new construction, Burns moved Gamesa's Fiber Blade operations from the concept stage into full production within five months. Gamesa also benefited from Burns' fast-track project delivery system, eliminating the two years normally required.
- Moving the site quickly through the PA Act 2 process for reuse of an environmentally contaminated site, thus providing the ability to move ahead with the location.
- Securing PADEP permits for air emissions, water and sanitary systems in a fast track process, which required very close coordination with many state and federal agencies.
- Coordinating closely with township officials to expedite the permit review and approval process, which helped Gamesa achieve its aggressive schedule.

A Fully Integrated Factory

The fully integrated 250,000 s.f factory includes separate manufacturing bays for the three main components of wind generators and various support areas including warehousing and offices. The three production bays are:

Fiberblade Production – This consists of a 62,000 s.f. state-of-theart wind turbine rotor blade manufacturing facility where the 30-foot, 8ton fiber reinforced blades are produced in giant molds. The fiberblade bay features the following systems:

130-foot clam shell molds with hot-air recirculation for curing, vacuum, dust collection, and other supporting utility systems supplied through an elaborate trench network.

Semi-finished tower sections on motorized track mounted trolleys. Also in this area are circular and and longitudinal seam submerged arc welders.

- Synchronized bridge cranes for moving the large blades through the
- HVAC systems to maintain strict temperature and humidity conditions necessary for blade production.
- Rotating finishing stands for patching and sanding operations

Tower Production - This 76,000 s.f. bay, houses the process of shaping, fabricating, sand blast finishing and painting heavy gauge sheet steel into 300-foot towers that can withstand the harsh elements for decades. The tower bay features the following systems:

- A dedicated explosion-proof paint mix room to house the pneumatic paint mixer/dispenser modules, including controls, electrical and compressed air services; and paint distribution piping. The floor and walls of this paint mix room were also epoxy coated for spill containment:
- Fully automated submerged arc type welding machines circular and longitudinal seam welders, and self-aligned turning rolls positioning
- Massive (20'x 20'x95') shot-blast room equipment assembly; and the in-slab foundation for the abrasive recovery module for the shot blasting process;
- Large (20'x20'x96') end-draft paint booths with in-slab recessed railing constructions for transporting 85-foot long tower sections through the painting/curing process.

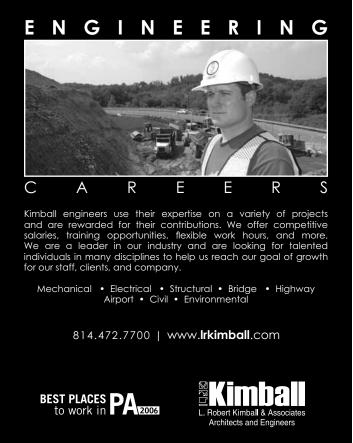
Nacelle Production - This 76,000 s.f. bay was designed to manufacture up to eleven, 2-Megawatt wind generators per week. The plant features "clean" electronics assembly and testing areas, capable of replicating actual on-site conditions to ensure the machinery operates properly before shipping.

"Gamesa" continued p. 11



Blade finishing area where 130 foot long, 8 ton blades are sanded and repaired. Also shown are the open air cable tray systems, in floor dust collection system, and one of four bridge cranes that serve this area.









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"Gamesa" continued from p. 9

Innovations:

The production processes require a wide array of very large and sophisticated material handing systems to efficiently move the massive components, some up to 85 feet long and weighing 90 tons, through the various production areas. This is accomplished through the use of 20 different cranes of various capacities and design. Systems include bridge cranes, semi-gantry cranes, jib cranes, and track-mounted motorized trolleys.

- Installed three new 35-ton single leg gantry cranes with the added flexibility of moving underneath the large overhead bridge cranes. This allows personnel to manipulate the smaller components at the same time as the finished products are moved out.
- Refurbished two 50-year old overhead bridge cranes by upgrading motors, hoists and replacing manual controls located in crane mounted cab with radio controls and synchronizing features. These upgrades eliminated the need to physically locate crane operators in the crane cabs and also provided the capability to efficiently handle loads of up to 60 tons each or 90 tons in tandem.
- Planned and coordinated crane installation and replacements to occur prior to the main construction phase to reduce congestion on the floor and to make cranes available for installation of process equipment and machinery, saving time and thousands of dollars in crane rental costs.

The number one objective for Gamesa was speed to marketplace, with a target of being in production by May 2006. While design and construction were underway, the backlog of orders for the turbines unexpectedly grew. As a result, our design and construction scope grew from the original concept of a \$5 million plant for Nacelles to a \$30 million integrated plant for Nacelles, Towers and Fiberblades. Burns met the challenge of making sure their facility was on-line in a short time frame, while managing moving targets of both scope and construction budget, allowing initial production to begin in May 2006.

Engineering That Keeps Pennsylvania in the Forefront

Burns' technical and managerial leadership in renovating the site so rapidly has been recognized as a success story in Brownfield renovations by the Pennsylvania DEP's Brownfield Action Team and through the Pennsylvania Land Recycling Program. The Engineering profession will look to this project as a role model in the future. The project has also received many accolades from our local and state government leaders at the facility's ribbon cutting and inauguration. Governor Edward Rendell said about the Gamesa Project: "...manufacturing sector is growing and advanced energy technology companies like Gamesa are leading the way. We also are supporting the development of alternative energy sources while helping to return abandoned industrial sites to productive use. That is the aggressive type of action we are taking to support our workers, businesses and communities..." Governor Rendell continued, "We are creating cleaner sources of energy that improve quality of life and make us less reliant on foreign fuel, improving the environment and enhancing security at home."

From almost all perspectives, Gamesa's Fairless Hills, PA factory can be considered a huge success story. Renovating an existing building in a timely manner was critical to meeting the market window for Gamesa products. Recycling a brownfield also saved thousands of tons of waste from landfills in comparison to constructing a new building. New advanced manufacturing and skilled labor jobs, in addition to the construction jobs needed to upgrade the building and site, have stimulated the local economy. The project contributes many social, economic and environmental benefits. The Gamesa plant is now manufacturing two wind turbines per day. One year's production output from the plant has the potential energy generating capacity of 700 megawatts of clean, non-fossil fuel electricity, which is enough to power nearly 200,000 homes for a year.

Burns is pleased that this project has received recognition for its contributions to society, the environment, and the advancement of the engineering profession. This project has received the PSPE Philadelphia Chapter 2007 Outstanding Engineering Achievement Award, the ACEC/ PA 2007 Grand Conceptor Engineering Excellence Award, and most recently the CMAA 2007 Project Recognition Award. ■



Matthew Natale PE (left) accepts the 2006 PSPE Young Engineer of the Year award from PSPE President Harve Hnatiuk, P.E., F.NSPE.

Editor's Correction

Much to the Editor's chagrin, the name Matthew J. Carnish P.E. was incorrectly printed next to the photo for PSPE Young Engineer of the Year 2006 in the January/February PE Reporter.

The actual winner of the 2006 PSPE Young Engineer of the Year was Matthew C. Natale P.E., Michael Baker Jr. Inc. Matthew is an exemplary engineer and member of PSPE. We extend sincere appreciation to Matt for his invaluable contributions to both the engineer's society and his community; and we thank his family for sharing him. ■

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Timothy S. Ormiston, P.E. PSPE Membership Chair

n1. the state of being a member, as of a society or club.

David S. Folk, P.E. and Thomas R. Terry, P.E. of the State Membership Committee took on an assignment to determine "Best Practices" used by the Chapters in recruiting and retaining members. They created a survey, distributed to Chapter Presidents late last year, asking for input on the subject. Their summary report of the survey results is re-printed below:

PSPE Chapter Presidents:

We would like to thank you for your participation in our 2006 Chapter Membership Recruitment and Retention Survey. Having served as Harrisburg Chapter Membership Services Chairs we had an idea of what was working for our Chapter's recruiting efforts. Now with your input we want to share some of the most effective methods used by the PSPE Chapters.

The top five responses to our results:

A. Where do most new members come from?

- 1. Referral from current member
- 2. Contacts with newly licensed PE's
- 3. Transfer from other chapter/state
- 4. Website inquiries
- 5. Contacts with universities

B. What are best practices for recruiting new members?

- 1. Contact newly licensed PE's
- 2. Six-months free offer (PE's and upper classman)
- 3. Maintain strong chapter membership committee
- 4. Contact local engineering firms
- 5. Contact local PE's
- 6. Other Ideas
 - a. Give back / get back offer
 - b. Contact colleges
 - c. Advertise in journals or local news outlets
 - d. Display at trade shows / events
- e. Hold membership challenge (chapter officers compete for most members signed)
 - f. Host lunch at PE exam
 - g. Host ceremony for presentation of PE license
- h. Include college students in MATHCOUNTS competition

C. What are best practices for retaining members?

- 1. Hold monthly meetings
- 2. Send notices to members regarding monthly meetings

- 3. Hold joint meetings with other chapters / professional associations
- 4. Incorporate tours (factory and construction projects) as part of the monthly meeting
 - 5. Incorporate a speaker as part of the monthly meeting
 - 6. Other Ideas
 - a. Offer programs with continuing education requirements
 - b. Open monthly meetings to guests and non-members
 - c. Offer free food at monthly meetings with speaker or tour (BBQ, subs, etc.)
 - d. Call delinquent members and get them to renew
 - e. Hold golf outing
 - f. Sponsor / support MATHCOUNTS,
 - g. Sponsor / judge science fair and future city

D. What method of contacting members works best?

- 1. E-mail
- 2. Face to face
- 3. Phone
- 4. Letter
- 5. Newsletter

In closing, all Chapters are all working for the same goal. NSPE and PSPE serves as the stewards of the Professional Engineering Profession. These are rapidly changing times and we need to increase our membership to insure that PSPE is properly represented. Currently, there are issues such as continuing education legislation and other important issues that may limit our practice being legislated. Please share these results with your Membership Services Chairs, Directors, Board members and Chapter members. These results will serve as part of a Best Practice Guide for Chapters.

If you have any questions or any other suggestions please contact us.

Sincerely, David S. Folk, P.E.

Thomas R. Terry, P.E.

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Johnstown

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Lehigh Valley

Charlie J Baker John A Cooke PE James W Davis PE Stephanie M Grahl PE Jeffrey Todd Nason PE Jennifer R Walls PE

Lincoln

David Wayne Bernhardt PE Steven M Brown PE Joseph D Brown Sr PE Timothy T Koppenhaver EIT

Luzerne County

Joseph J Gibbons PE Lawrence Marchetti PE

Midwestern

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n2. the status of a member.

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n3. the total number of members belonging to an organization, society, etc.

As of April 2, 2007 there are 2159 members in PSPE. If you have returned your membership renewal form – THANK YOU!; if not, please take a few moments today to go online and renew. A Continuing Education requirement for Pennsylvania PE licensure is now law. Members of PSPE will be some of the first to find out about details of the requirement and of upcoming education opportunities.

* Reference from Dictionary.com Unabridged (v 1.0.1) Based on the Random House Unabridged Dictionary, © Random House, Inc. 2006



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16 ■ PE Reporter March/April 2007

Pennsylvania Society of Professional Engineers

Positive Attitude Vital for Professional Engineers

Johann F. Szautner, P.E.

Professional engineering is about attitude. What I mean by attitude is the way we think and feel in response to a challenge, or any experience in our profession and lives. Our attitude reflects our values; how we see our world in terms of actions and reactions. While this definition is conceptually very broad, for the purpose of my message I limit it to reflection over attitudes as they relate to successfully practicing as a professional engineer. Much of what we do appears to be influenced by external circumstances, from weather and marketplace conditions, to people and family issues.

However, there is one component of our daily lives over which we have absolute control, and that is our attitude. Every day at any time and moment we have a choice over our attitude. We can choose to have a constructive attitude of "I am in charge," of my life, or rationalize our problems by externalizing

Close scrutiny and honest self-assessment will reveal that our problems are internal and largely a result of how we perceive ourselves. Positive attitudes are contagious and have productive and catalytic effects not only on us but the world around us, from co-workers to bosses and clients.

When we choose to have a negative attitude, no matter how talented or

knowledgeable we are, we will fall short of our potential. We know that behavior follows our attitude and that behavior is a key ingredient for success in practicing our profession and conducting our lives. As engineering students we learned with much effort and difficulty, at least in my case, to firmly manage our behavior by being forced to implement rigid goals and plans, and exercising self-discipline.

Knowledge and skills, the third main ingredient to be successful in our profession, are acquired more readily if we have learned to master behavior with the right attitude. The manner in which a professional engineer views and approaches his or her work is very likely to determine how effectively he or she uses hardlearned knowledge and skills.

The very fact that engineers have to successfully complete not only a very demanding educational program but also undergo a rigorous professional licensing examination certainly helps to develop favorable attitudes including persistence, curiosity and the all-important concept of lifelong learning.

During employment, both before and after licensure, there are many opportunities for further professional attitude development. Traditionally, attitudes are often developed the hard way by learning from mistakes. However,

in today's connected and networked world, this is no longer necessary. Each engineering discipline has its professional practice organization and fosters professional growth. Numerous programs are available not only to hone management and leadership skills, but also to practice them by getting actively involved and giving something back to one's profession. Being active in a professional practice organization is not only a great resource for our own professional development, but also provides wonderful opportunities of fellowship and the so-important mentoring of young engineers.

Being involved in this way will always reward us with keeping a positive attitude. Reflecting on the growth of my own career, and watching the careers of many of my fellow engineers develop, I am pleased to give testimony to my positive attitude building experience with my involvement with the Pennsylvania Society of Professional Engineers, serving as Lehigh Valley officer and director.

Johann F. Szautner, P.E., PLS, is president of Cowan Associates Inc., Quakertown. This article first appeared in EASTERN PENNSYLVANIA BUSINESS JOURNAL. February 12-18, 2007.

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Political Action Committee Report

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"Capitol" continued from p. 7

HB 672 RE: Sprinkler Loan Program Act (by Rep. Jennifer Mann, et al)

DCED would establish and administer a loan program for the purpose of providing loans to owners of high-rise buildings in PA to install sprinkler systems in buildings located within municipalities that have adopted ordinances requiring sprinkler systems in buildings of any specified height. Loan payments would be credited to the fund. This Act would expire in ten years and any money remaining in the fund would be transferred to the General Fund. The legislation would appropriate \$20 million to DCED for the administration of the Sprinkler Loan Fund. Refiled from 2005 (HB 694).

Referred to House Consumer Affairs Committee, 3/9/2007

HB 700 RE: Rx for PA (by Rep. Todd Eachus, et al)

Governor Rendell's Cover All Pennsylvanians plan. Amends Title 40 (Insurance) reforming the healthcare system by providing for access to affordable health insurance coverage for previously uninsured individuals, est. PA Center for Health Careers & Leadership Council & making repeals. Filed, not yet referred, 3/19/2007

SB 333 RE: PA Prevailing Wage Act (by Sen. Mike Waugh, et al)

Amends the PA Prevailing Wage Act by adding that "public work" includes combination rehabilitation/reconstruction projects where non-maintenance items exceed 15% of the total project cost; and "maintenance work" includes the following actions taken on roads: (1) replacement in kind, or compliance with current Department of

Transportation design criteria and standards, of guide rails, curbs, pipes, line painting and other related road equipment; (2) repair of pavement service by laying bituminous material up to three and a half inches thick or up to four hundred twenty pounds per square yard on asphalt pavement, cement, concrete or other hard surface, including associated milling, and related work raising existing paved shoulders to new grade; or patching of cement or concrete surface to include joint spalling and repair work; (3) widening of existing alignment which does not result in additional lanes or new shoulders; and (4) bridge cleaning, washing, resurfacing with blacktop, minor non-structural repairs or improvements and painting except when combined with complete bridge rehabilitation.

Referred to Senate Labor and Industry Committee, 3/12/2007

SB 359 RE: Home Inspectors (by Sen. Stewart Greenleaf, et al)

Amends Title 68 (Real and Personal Property) further providing for home inspections; establishing the Pennsylvania Board of Home Inspectors and providing for its duties and powers; and providing for licensure of home inspectors and for disciplinary proceedings by the Pennsylvania Board of Home Inspectors.

Referred to Senate Consumer Protection & Prof. Licensure Committee, 3/12/2007

SB 435 RE: Comparative Negligence (by Sen. Jake Corman, et al)

Amends Title 42 (Judiciary and Judicial Procedure) providing for comparative negligence by adding that where recovery is allowed against more than one person,

including actions for strict liability, and where liability is attributed to more than one defendant, each defendant would be liable for that proportion of the total dollar amount awarded as damages in the ratio of the amount of that defendant's liability to the amount of liability attributed to all defendants and other persons to whom liability is apportioned. Also, a defendant's liability would be several and not joint, and the court would enter a separate and several judgment in favor of the plaintiff and against each defendant for the apportioned amount of that defendant's liability. Nothing in this section would be construed in any way to create, abolish or modify a cause of action or to limit a party's right to join another potentially responsible party.

Referred to Senate Judiciary Committee, 3/14/2007

2007 House Spring Session Schedule

Following are scheduled session days: March 20, 21

April 16, 17, 18, 23, 24, 25, 30 (non-voting) May 7, 8, 21, 22, 23

June 4, 5, 6, 11, 12, 13, 18, 19, 20, 25, 26, 27, 28, 29, 30

2007 Senate Spring Session Schedule

Following are scheduled session days: March 20, 21, 26, 27, 28

April 16, 17, 18, 23, 24, 25, 30

May 1, 2, 7, 8, 21, 22

June 4, 5, 6, 11, 12, 13, 18, 19, 20, 25, 26, 27, 28, 29

Copies of all bills of interest are available from the PSPE office, or they can be accessed via the Internet at http://www.legis.state.pa.us/ WU01/LI/BI/billroom.htm. ■

Member Spotlight

Paul Dugan, P.E.

On behalf of the Valley Forge Chapter, all of us join together in paying tribute to our friend and fellow engineer Michael W. Moore, P.E., 61, who passed away on March 9, 2007 at home, following a long battle with esophageal cancer. Mike was a strong supporter of our chapter for many years. He was known to be a humble, unpretentious mechanical engineer and widely considered a friend to many members of our chapter. Mike was well respected within our chapter, both for his contributions and perspective on many issues facing our profession. Mike was a fighter who surprised us on many appearances at association events while undergoing treatments, a tribute to his relentless support of the society and to our profession.

Mike was raised in his family's funeral home in Conshohocken and assisted his parents, William and Elizabeth, in the business. He graduated from St. Matthew High School in Conshohocken, and earned a bachelor's degree in engineering from Villanova University and a master's degree in business from Drexel University. For 22 years he worked for Philadelphia Electric Co. before establishing his engineering consulting firm specializing in mechanical and electrical systems.

Mike was a member of the Conshohocken American Business Clubs, which sponsors the Soap Box Derby races every Fourth of July in Conshohocken. He participated in the races growing up and later helped his children participate. He was active in the Special Olympics and other programs for the mentally challenged. He enjoyed fishing, flying remote control airplanes, building model sailing ships, and driving his red Corvette. He was a model railroader and vacationed by rail through the Rocky Mountains and Sierra Nevada. He

enjoyed a good debate, his brother Robert said, and had an encyclopedic mind - "he could answer any question." Mike is survived by his wife of 37 years, Mary Gambone Moore; sons Jason, Michael and Christopher; a daughter, Melissa Rutz; a brother; and a granddaughter.

Mike rose through the ranks of our VFC executive officer positions. He was President of the Valley Forge Chapter during the 2004 - 2005 calendar year. Since that term, Mike served as VFC Past President and the VFC state director. Mike will be long remembered for his long standing contributions, his friendship, and his ongoing support of our profession. We all owe a bit of gratitude to Mike. I stand together with my fellow members in wishing Mike's family and friends our warmest condolences, and proudly salute our fellow engineer.



In Memoriam Michael W. Moore, P.E. 1946 - 2007



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1:00p Reading Chapter Golf Tournament
Reading Country Club

5:00p - 7:00p Young Engineers Happy Hour Sponsored by McCarthy Engineering
Reading Country Club

FRIDAY, JUNE 1

8:00a - 10:00a Professional Engineers in Private Practice (PEPP) Board Meeting

8:00a - 10:00a Professional Engineers in Private Practice (PEPP) Board Meeting
9:00a - 12:00p Spouse Option: Tour and Class at GoggleWorks
10:00a - 12:00p Session: Start and Operate Your Own Engineering Firm
10:00a - 12:00p Session: Constructability Reviews
12:00p - 1:00p PEPP Professional Development Award Luncheon
1:30p - 3:00p Session: Katrina Levee Failure
3:15p - 4:45p Session: Presentation Skills for Today's Technical Professionals

Session: Nanotechnology: What is it and why is it important?

5:30p – 6:30p Welcome Dinner
7:00p – 10:00p Fabulous '40's Big Band Concert and Dance

SATURDAY, JUNE 2

3:15p - 4:45p

8:00a - 9:00a	PSPE Past President's Breakfast
9:00a - 12:00p	PSPE Board of Directors Meeting
12:00p - 1:00p	Lunch and NSPE Update Guest speaker: H. Ken Rigsbee, P.E., F.NSPE NSPE President 2008-2009
2:00p - 3:00p	PSPE Former President's Council meeting
5:00p - 6:00p	Order of the Engineer Ring Ceremony
6:00p - 7:00p	President's Reception
7:00p - 9:00m	Installation and Awards Banquet Guest Speaker: Mayor Tom McMahon, PE

Bob Fanelli Trio Sponsored by Bohler Engineering

Highlights

GoggleWorks Center for the Arts

Friday, June 1 8:30 am - 12:45 pm

PSPE has arranged for spouses and guests to visit the historic GoggleWorks facility in downtown Reading. Learn about the arts in a working studio environment – artists are at various stages of work on projects in varied media and you can see them in action.

PSPE guests will first tour the GoggleWorks campus, a five-floor collection of galleries, and artist studios. Attractions include a woodshop, film theatre, a state of the art glass blowing shop, photography classroom, ceramics studio and jewelrymaking center.

PSPE guests will then get to try their skill at glassblowing. A glassblowing artist will instruct and guide PSPE students creating their very own project. No experience necessary. (Must be at least 13 years old and 5 ft tall.)

8:30a Trolley departs to GoggleWorks

Center for the Arts

9:00a Tour of Center

10:00a Glassblowing class: create your own

project

12:00p Lunch at the Urban Myth Cafe*12:45p Trolley returns to the Inn at Reading

*Guests will need to order and pay for lunch individually, as this is a cafe.

Young Engineers Happy Hour

Thursday, May 31 5:00 pm - 7:00 pm

PSPE members and engineers under 40 are invited to happy hour at the Reading Country Club, sponsored by McCarthy Engineering, Inc. (If you can take the day, play in the Reading Chapter Golf tournament, too!)

Young engineers from Reading chapter member companies will join us as well. In addition to the Reading Express Smoking Hot Steam Team as a welcome committee, we'll be joined by a surprise guest speaker at 5:30 pm.

Let's Dance!

Friday, June 1 7:00 pm - 10:00 pm

The 2007 PSPE conference coincides with the WWII Weekend at the Mid Atlantic Air Museum. AFTER you spend time with colleagues at the conference, spend time with your family at the "largest and best WWII reenactment in the nation - bar none."

PSPE will transport our guests to the big band concert on Friday evening, featuring the swing band "Let's Dance," appearing ala Artie Shaw's USN Big Band.

Our shuttle will run between the Inn at Reading and shuttle connections designated by the MAAM.

Note: Guests are welcome to dress in period costume! For more details on the reenactment, visit www.maam.org.

Order of the Engineer Ring Ceremony

Saturday, June 2, 2007 5:00 pm - 6:00 pm

PSPE is proud to host the Order of the Engineer Ring Ceremony. Candidates will be inducted into the Order of the Engineer by formally accepting the Obligation of an Engineer and receiving a stainless steel ring to be worn as a symbol on the fifth finger of the working hand.

An engineer is eligible for induction if he or she has graduated from an ABET-accredited engineering program or holds a license as a Professional Engineer. Students enrolled in ABET-accredited engineering degree programs are eligible if they are within two academic terms of graduation. Anyone may witness the induction ceremony. Families are welcome as guests.

"The Order of the Engineer is a solemn obligation to oneself to uphold devotion to the standards and the dignity of the engineering profession. It is an obligation to turn to practical use the principles of science and the means of technology...to serve humanity by making the best use of earth's precious wealth."

The Obligation is the formal statement by an engineer of responsibilities to the public and to the profession; the Obligation is publicly accepted by an engineer during induction at a Ring Ceremony.

PSPE members who have entered the Order express great personal pride in stating the Obligation and proudly wear the stainless steel ring as a symbol and reminder.

Education

Start and Operate Your Own Engineering Firm

Friday, June 1, 2007 10:00 am – 12:00 am (2.0 PDH)

The Professional Engineers on this panel have struggled through the debate of whether to start their own firm. They have entered into the competitive market and are now in various stages succeeding.

Stop having conversations with yourself about the following topics, and talk with professionals who have actual experience.

Marketing and development...How do I get business? Capital...How much money do I need?

Focus...What can I do myself? Who can help me?

Panelists:

Joseph F. Boward P.E. - Garvin Boward Engineering Inc

(est. November 2004) Primary focus: geotechnical

Secondary focus: forensic, environmental

Robert N. Roop P.E. - Criterium Lockatong Engineers

(franchise 50th anniversary; branch est. June 2001)

Primary focus: MEP and environmental

Unique perspective: business survived office burning to the

ground

Michel Sadaka P.E. - Sadaka Corp.

(est. February 2004)

Primary focus: Project scheduling and management;

construction claims & expert testimony Secondary focus: Forensics, disputes

Virginia Dailey P.E. - D&D Engineering

(est. February 1995) Primary focus: electrical

Secondary focus: architectural/electrical

The Constructability Review Process

Thomas F. Kerins, Urban Engineers, Inc.

Friday, June 1 10:00 am - 12:00 pm (2.0 PDH*)

The Constructability Review Process is defined as the application of construction knowledge, experience, and expertise to the planning, designing, scheduling, and estimating of projects to produce a better product.

Detailed constructability reviews minimize potential "field problems" and allow projects to experience less disruption, fewer work orders, a reduction in claims, and to finish on time. This is best accomplished by incorporating constructability reviews into the planning and design process as early as possible and continuing these reviews until the project is let. This approach produces a design that represents the "Best Value" to the owner.

This session will address key elements of the Constructability Review Process:

- Critical components for the Constructability Review Process
- Major constructability issues
- Time and Cost Savings

Case studies performed by the Transportation Research Board that show the constructability review process can result in a benefit to cost ratio of at least 10 to 1 and up to 25 to 1. The following examples demonstrate types of issues discovered and resolved through PennDOT's Constructability Review Process:

- A project's Maintenance and Protection of Traffic (MPT) Plans are not coordinated with the project's Erosion and Sedimentation Control (E&SC) Plans. \$150,000.
- A project's excavation and embankment operations are not balanced by stage. \$350,000
- Proposed roadway reconstruction and utility improvements are not effectively coordinated. \$1.35 million
- Construction of foundations for proposed structures conflict with exiting overhead utility lines. \$165,000
- Proposed temporary support of excavation system conflicts with new and existing structures. \$200,000.

Thomas F. Kerins - As Practice Leader for the Constructability Review Group at Urban Engineers, Inc., Mr. Kerins was directly responsible for many constructability reviews performed during the Statewide Open-End Constructability Review Agreement with PennDOT. A veteran of Urban Engineers, Inc. for more than 15 years, he was formerly a Construction Coordinator for Perinini Corporation and an Estimator & Project Engineer for Kaufmann Construction Co. of Philadelphia.

*Eligible for NY PDH. Approval pending.

Education

Katrina and the Failure of the New Orleans Hurricane Protection System*

Robert G. Traver, Ph.D., PE, D.WRE

Friday, June 1 1:30 pm - 3:00pm (1.5 PDH*)

What Happened Geography Hurricane

Consequences Investigation Immediate

> IPET & ERP Process Questions

IPET Draft Final Results

Failures Levees Pump Stations Design Strategy Errors

Task Force Guardian
ASCE ERP Call to Action

Dr. Robert G. Traver received the Bachelor of Science in Civil Engineering from the Virginia Military Institute (1978). Upon graduation he was employed for three years by Yerkes Associates as a project engineer. He obtained his Master of Civil Engineering at Villanova (1982)and his PhD in Civil Engineering at Penn State (1988). His work in unsteady flow was incorporated within the NWS Dambreak Model.

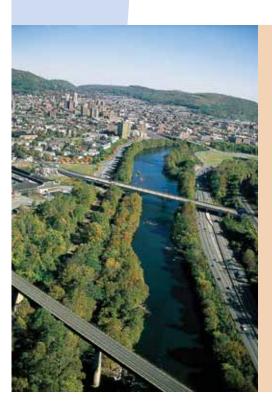
Dr. Traver is a registered professional engineer and has been a member of the Water Resources and Environmental Engineering Program at Villanova since 1988. He teaches graduate courses in hydrology, hydraulics, urban storm water management, and

undergraduate courses in all facets of water resources. Dr. Traver is a retired LTC in the Army Reserves, and a veteran of Operation Desert Storm

While at Villanova Dr. Traver has conducted research on modeling of stream hydraulics, urban hydrology, water quality, and measures to mitigate stormwater effects of urbanization. Most recently he has been the main force in creating a Stormwater Best Management Practice Demonstration and Research Park on the Villanova Campus. Research is underway on a Stormwater Wetland, and four infiltration BMP's.

Recognizing the link between policy and engineering, Dr. Traver continues to be involved with the implementation of stormwater policy. He has participated with a team study (sponsored by PaDER) to review the effects of Pennsylvania's water regulation from a watershed sustainability viewpoint, and served as Chair for the 1998, 1999, 2001, 2003, and 2005 Pennsylvania Stormwater Management Symposium. As of August 2003 he has been appointed by the Commonwealth to the oversight committee for Pennsylvania's "new" BMP manual. More recently he was selected to serve on ASCE's External Review Panel of the Corps investigation of Hurricane Katrina.

*Session pre-approved for license renewal in New York by the Practicing Institute of Engineering.



Logistics

Host hotel:

The Inn At Reading 1040 N. Park Road Reading, PA 19610 610.372.7811

Single/double rate: \$89 + tax

Reference: Pa Society of Professional Engineers

Call before May 20, 2007!!!

Attire:

Business casual is acceptable for most sessions and meals.

The Fabulous 40's concert is casual - period dress is welcome!

Business attire is recommended for the Order of the Engineer Ceremony and Awards Banquet.

Education

Nanotechnology: What is it and why is it important?*

Mark Rutkowski, P.E.

Friday, June 1, 2007 3:15 pm - 4:45 pm (1.5 PDH*)

Outline

Current definitions of Nano
History
Visualizations of scale
Top Down Processing
Clean Rooms
Bottom Up Processing

Self assembly
Advantages of nano
Current nano products
Concerns about nano
Possible future products
Current activity in Nano in PA

Mark Rutkowski, PE, received Bachelor of Science and Master of Science Degrees in electrical engineering from Wilkes University. He had approximately 20 years of industrial experience in communications engineering prior to joining the faculty of Luzerne County Community College. He currently serves as the College's Coordinator of Innovative Technology and holds the rank of Professor.

Mr. Rutkowski developed Luzerne's Nanotechnology Manufacturing Technology curriculum as well as the Cyber Security Management curriculum. He serves as project director for a PA DCED Workforce Leadership grant in Nanotechnology education.

In addition, Mr. Rutkowski is a Co-PI on an NSF grant that is the primary funding source for the PA Nanotechnology Educational Partnership. The partnership brings together over 30 institutions to cooperatively work together on Nanotechnology education. Other states and other countries are using the partnership as a model to implement their own nano education program.

Rutkowski is a certification Administrator for the Association of Electronics Technicians. In addition, he holds a General Radiotelephone Commercial FCC license.

*Session pre-approved for license renewal in New York by the Practicing Institute of Engineering .

A Refreshing View

Sessions on Friday afternoon will be held at the beautiful Penn State Berks Campus, a short, scenic trolly-ride away from the Inn at Reading.

The trolley will shuttle back and forth between the hotel and campus for the convenience of PSPE guests.

Presentation Skills for Today's Technical Professionals

Jackie Reeves, The Nyman Group

Friday, June 1, 2007 3:15 pm - 4:45 pm (1.5 PDH)

Engineers who must make informative or persuasive presentations to audiences of 1 or 101 will benefit from this session.

Successful engineers recognize that effective communication is a skill that distinguishes them from everyone else. Effective communication is important to be able to build relationships, take a place at the table, influence business decisions, and communicate a vision. Success depends upon your ability to communicate your ideas so that others listen and you achieve the desired outcomes.

This highly interactive, 90-minute, seminar focuses on developing your unique presentation and delivery style. You will learn:

- The power of your professional image
- To harness the power of body language (eye contact, facial expressions, space, movement, etc.)
- To use the impact of your voice (inflection, rate, pitch, volume, etc.)
- To analyze audiences to target your message
- Strategies for organizing, developing, and presenting your message

As an executive coach and workshop facilitator, **Jackie Reeves** combines her wealth of professional experience with an innovative approach that makes each participant engaged and energized.

For over 20 years, Jackie has designed, developed and delivered corporate seminars in presentation skills, executive & professional presence, interpersonal skills, leadership and team development, diversity/sensitivity awareness, managing conflict, cross-generational collaboration and others. Client accolades reflect Jackie's insight, compassion and energy, which carry over into her role as a noted motivational speaker at seminars, conferences and meetings.

"Doing what I do requires an intuitive nature and a genuine concern to help others learn, grow and succeed. What I do best is make people feel comfortable by balancing knowledge and personal experience with a sense of humor and a 'learning can be fun' mentality."

Jackie draws upon a broad educational background: a Master's Degree in language from the University of Arkansas and a designation as a Professional in Human Resources (PHR) from the Society for Human Resource Management. She holds certifications in training and program design and development and is a member of The American Society for Training and Development (ASTD); Willow Grove Chamber of Commerce; National Association of African Americans in Human Resources (NAAAHR); and Women's Way of Pennsylvania.

Her extensive listing of clientele includes: Lockheed Martin Corporation, Harvard University, The University of Pennsylvania, The Vanguard Group, Children's Hospital of Philadelphia, The Hartford, AstraZeneca, and GlaxoSmithKline.



Reading Chapter PSPE Golf Outing

Golfers (Please Print)	E-mail Address	Phone #
1		
2		
3		
4		
Non-Golfers or Tee Spor	ısorship	
Name/Company (Please Print	t)	Phone #

Reading Country Club Lunch and registration begins at 11:30 a.m. May 31, 2007 @ 1:00 p.m. sharp (Shotgun Start)



\$100/Person \$375/Foursome \$100 Tee Sponsorship

Checks payable to: Reading Chapter PSPE 1121 Snyder Road West Lawn, PA 19609



Registration

PSPE Engineers Conference

The Inn at Reading and Penn State Reading Campus, Reading PA

Full name:	Designation	Nick name:		
Spouse/guest name:	Designation	Nick name:		
Company:				
Address:				
City, State Zip				
Phone:	E-mail:			
Registration Options				
FULL registration			Quantity	Fee subtotal
☐ Engineer Includes all seminars, meetings, events, a however, GoggleWorks and Order of the E	nd meals listed on s	schedule,	ration.	
☐ Spouse/guest				
Mark interests below:				
 ☐ Young Engineers Happy Hour ☐ GoggleWorks ☐ Seminar: Start Your Own Firm ☐ Seminar: Constructability Reviews ☐ Seminar: Katrina Levee Failure 		☐ Seminar: Prese ☐ Seminar: Nanot ☐ Big Band Conce ☐ Presidents Cour	echnology ert at MAAM	
Ala carte:			Quantity	Fee subtotal
☐ Friday seminars with lunch	ond!)	\$ 50 \$ 30 \$ 0 \$ 40		

Send Registration to:

Registrations received after May 18 are subject to \$25 late fee.

908 N. Second Street Harrisburg, PA 17102 Phone: 717.441.6051; Fax: 717.236.2046 jennifer@wannerassoc.com

Advertising

PSPE Engineers Conference

The Inn at Reading and Penn State Reading Campus, Reading PA

Who is the audience?

Professional Engineers from across Pennsylvania network and gain Professional Development Hours at the PSPE conference.

Advertising

☐ Full page back cover\$400	0
☐ Full page inside back cover\$350	0
☐ Full page inside front cover\$35	0
☐ Full page (7.5" x 4.5" w)	0
☐ Half page (3.25" x 4.5" w)\$200	0
□ Quarter page (1.75" x 4.5" w)\$100	0

NOTE:

Ads will print in black and white. Send electronic file (.jpg, .pdf, or .tif) to jennifer@wannerassoc.com.

Sponsor logos displayed onsite, online and in printed material.

Deadline: May 11, 2007

Event Sponsor

□ Installation and Awards Banquet\$3,500
☐ President's Reception\$2,500
☐ Welcome Dinner
□ PSPE Trolley\$2,000
☐ Registration gift - captain's chairs w/logo \$1,400
☐ Young Engineers Happy Hour\$1,000
☐ Professional Development Award Lunch\$ 800
□ NSPE Update Lunch\$ 800
☐ Bob Fanelli Trio\$ 500
☐ Past President's Breakfast\$ 200
☐ Coffee break (4)

Corporate Sponsor

☐ Gold	\$3,000
☐ Silver	\$2,000
☐ Bronze	\$1,000

Ad/Sponsor Reservation

Send reservation form to:
Jennifer Summers
908 N. Second Street; Harrisburg, PA 17102
717.441.6051; Fax: 717.236.2046

Send artwork to jennifer@wannerassoc.com by May 11.
Preferred file format: .jpg, .tif, .pdf or .eps

Company:
Contact:
Address:
City, State, Zip:
Phone:
E-mail: