

Lehigh Valley Engineering Council



Meeting Minutes

Monday, December 3, 2012

Attendees:

Chris Blechschmidt, PE (PSPE)
David F. Toler, PE (SAE)
Scott Stenroos, PE (ASCE)
Alan Fornwalt, PE (PSPE)

Location: Keystone Consulting Engineers, Inc. 6235 Hamilton Boulevard, Wescosville, PA 18106

- I. Meeting called to order, 5:45 PM
- II. Meeting Minutes
 - i. Acceptance of November 12, 2012 meeting minutes with addendum including Gold and Silver sponsors on the LVEC website and in early January we must collect for free articles for the Business Journal
- III. Membership List
 - i. List emailed to attendees as 'cc' on email to all
 - ii. Member societies – contact information still needs to be updated
 1. Updated: ASSE, IIE, trying to find representative for ASME, ECLV (Engineering Council of the Lehigh Valley)
 - iii. Chris B. to forward membership list to Agnes
 1. Will send latest contacts including ASSE
- IV. Vice-President – position yet to be filled
 - i. Applications to be reviewed as received
- V. Sponsorship
 - i. Chris has letters ready to mail. Can supplement information, if needed.
- VI. Dues: Chris B. to check with Daryl Callan to see if he sent out dues request. No response to-date.
- VII. Deposit: Daryl to send out after October meeting. No confirmation has been received.
- VIII. Article for Morning Call during Engineers Week
 - i. Recommended the article per attached 'Engineers Shape the Future' article
- IX. Speaker - Mark Sarkisian, PE, SE, LEED
 - i. Topic and content approved per attached flier entitled, 'Civil Engineering and the Future of Our Environment'

- ii. Scott Stenroos to check facility for projector/screen
 - a. Microphone cost
 - iii. Chris and Scott to coordinate with Daryl

- X. Ticket Prices
 - i. \$35 (\$45 late) for members / non-members
 - ii. \$20 per student regular price, however if student sponsored by member, price is \$15 per student, provided name and school is provided at time of registration. Student no shows will be billed for the full late fee, no exceptions.
 - iii. All reservations shall be paid by the deadline to receive discount.
 - iv. Tentative reservation deadline = February 11, 2013 at 5:00 PM
 - 1. To be confirmed with hotel reservation food ordering requirements

- XI. Invitations to banquet
 - a. East Penn Business Journal – John Coyle
 - b. Lehigh, Lafayette professors, Dean of Engineering to disseminate
 - c. Local politicians invited by PSPE
 - d. Morning Call – have representative to do free article
 - e. East Penn Press, Parkland Press
 - f. Express Times – Martin Till
 - g. PikeWood/Minuteman Press
 - h. Advertisers
 - i. Check website for previous advertisers
 - j. Scott S. to check deadline for EPBJ deadline

- XII. Event Appetizers, Brochure Printing
 - i. Cabot is donating cheese
 - a. To be listed as a Gold Sponsor
 - ii. David T. to bring fruit tray and vegetable/cracker tray as long as Bernie T. is not performing this task. David T. to confirm
 - iii. Air Products is donating ice cream
 - iv. Cash Bar
 - v. PikeWood/Minuteman Press does printing for free
 - a. To be listed as a Gold Sponsor
 - b. Owner/wife to be invited to attend banquet at no cost

- XIII. Notices to All Societies
 - i. Notices shall be sent to all societies to send in articles. Deadline to be confirmed at Monday, January 23rd in order to submit in time to East Penn Business Journal

- XIV. Meeting Adjourned at 6:52 PM

- XV. Next meeting: **Monday, 1/7/2013**, 5:30 PM at Keystone Consulting Engineers

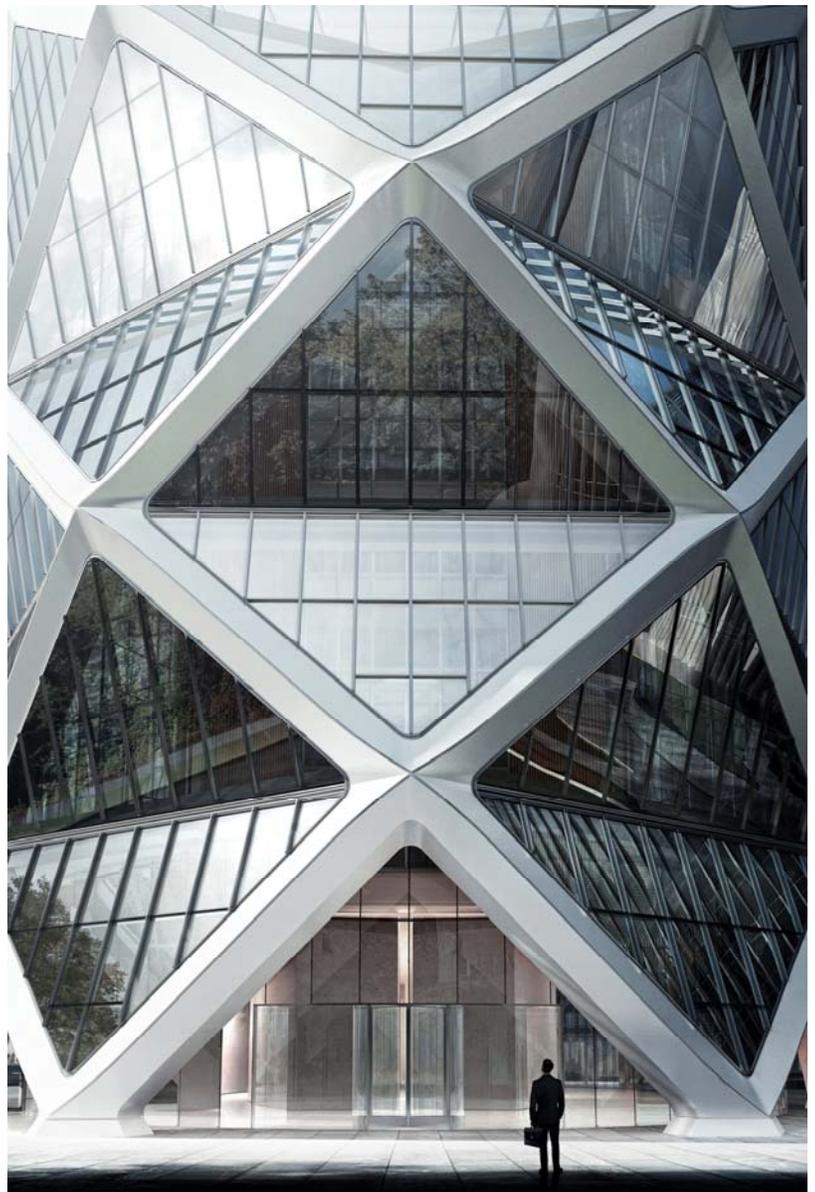
Civil Engineering and the Future of Our Environment

Our planet is being polluted at an alarming rate and many would argue that the effects of carbon emissions on the environment are irreparable. Global warming has already started to have a significant impact on weather patterns and sea level rise. Extreme storms including the recent Hurricane Sandy and flooding of cities like Venice, Italy are occurring at disturbing rates. The engineering and architectural community has begun to develop new ideas that will act to mitigate impacts on the environment through increased urban density, creative approaches to design, and sustainable district / city-wide developments.

Mark Sarkisian, PE, SE, LEED, Director of Structural Engineering at the worldwide architectural / engineering firm Skidmore, Owings & Merrill LLP (SOM) will present recent work that illustrates these new ideas. Projects examples will include SOM's designs for the world's tallest building – the Burj Khalifa, Dubai, the 415 meter-tall Al Hamra Tower, Kuwait, the Cathedral of Christ the Light, Oakland, California, the Poly Guangzhou Tower, and the Poly International Plaza, Beijing among others. Parametric modeling including concepts that consider genetics and natural growth patterns in the design of structures will be discussed. Several recently developed US patents that provide unique solutions to environmentally responsible design and construction will be presented. Techniques for calculating carbon in structures and futuristic ideas of materials and sensory fields used to anticipate loads will also be presented.



Engineer's Week Banquet
22 February 2013 Presentation



Engineers Shape the Future

No one knows what the future holds, but engineers are changing the world. Anyone can dream, but engineers turn dreams into reality. What is your most valued technology - your iPad or smart phone? Thank the engineers. But what about things we now take for granted that make our modern life possible, like fresh water in the faucet, or machines that help farmers be so productive that our supermarkets overflow with foods? Engineering is essential to our health, happiness and safety as a society. Engineers also realize that some self promotion is needed in order to foster interest in technical fields among young students. Professional organizations sponsor activities such as Future City, A World in Motion and MathCounts to excite young minds about science and technology.

On February 22nd, 2013, the Lehigh Valley Engineering Council will kick off National Engineers Week activities with their annual Banquet at the Holiday Inn Conference Center at Rt. 100 in Breinigsville, PA. The Pennsylvania Society of Professional Engineers will recognize their Engineer of the Year and Young Engineer of the Year award recipients during the banquet. The featured speaker will be Mark Sarkisian, Director of Structural Engineering at Skidmore, Owings & Merrill, LLP, a world-wide architectural and engineering firm. Mr. Sarkisian will share new ideas being developed to reduce our impact on the environment through increased urban density, creative approaches to design, and sustainable developments.

The Lehigh Valley Engineering Council is an umbrella organization for the professional organizations representing many fields of engineering in the Lehigh Valley. The current Chairman, Christopher Blechschmidt, and other board members can be contacted through the LVEC web site <http://www.lvengineer.org/>, which contains a wealth of information about the activities of engineering organizations in the Lehigh Valley.