



# LEHIGH VALLEY INSIGHTS

**May 2015**  
**Volume 50, Issue 7**

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**Wednesday, May 20, 2015**

**"Getting to 50: 50% Advanced Energy Design Guide for Small and Medium Office Buildings"**

*Presented by ASHRAE Distinguished Lecturer*

*Daniel Nall, PE of Thornton Tomasetti, Inc., New York, NY*

4:30 PM to 5:30 PM	Board of Governors Meeting
5:30 PM to 6:00 PM	Social Time/Cash Bar
6:00 PM to 7:00 PM	Dinner
7:00 PM to 8:00 PM	After Dinner Presentation

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**Deadline to Register Online: Noon on May 20, 2015**  
Register on-line at <http://lv.ashraechapters.org> using PayPal

-or-

Pay onsite via Square with your credit card

Reservations: Gary Debes

Email: [c098pe@ashrae.net](mailto:c098pe@ashrae.net)

Members and Guests: \$30 for Dinner

See page 3 for more information on the presentations and speaker.

**LOCATION**

**Holiday Inn Fogelsville**

7736 Adrienne Drive, Breinigsville, Pennsylvania 18031

Routes 78 / 22 and PA Route 100 Interchange

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Click on the position title to email the person in that position

PRESIDENT’S MESSAGE

Good Day!

I want to start by thanking HT Lyons, Mr. Perosa and Mr. Matsinko of HT Lyons for hosting us for the ASHRAE Webinar in April. The attendance, food, topic, speakers were all excellent. Anyone who has not viewed the webinar has time to still view it and earn PDHs before the reporting deadline. See ASHRAE’s website for details.

This month marks the final traditional month in our ASHRAE calender. The chapter program is a great look in to where the industry is headed in terms of energy efficiency. Also, we are hoping to hear from Paul Petrilli of HF Lenz of Johnstown to discuss the engineering behind the refurbishing and repair of the Statue of Liberty and Ellis Island post Hurricane Sandy.

We have two great events coming up in June. One is the golf outing on June 5<sup>th</sup>. Contact me should you be interested in participating or volunteering. Also, the Chapter is planning a Young Engineer in ASHRAE Social Event at Coca Cola Park for the LV Iron Pigs. As details become finalized, we will be advertising. This event will be open to not just young members. I, personally, am looking forward to it.

Finally, Engineers without Borders of the Lehigh Valley is asking for assistance in a project at the Easton Area Neighborhood Center. They are looking at ideas for energy upgrades to their existing HVAC systems and some other safety updates for their building. Feel free to reach out to me and I will put you in touch with the EWB folks.

Frank Paretti  
Lehigh Valley Chapter President  
[c098@ashrae.net](mailto:c098@ashrae.net)



### **Daniel Nall, P.E., Thornton-Tomasetti , NYC, NY**

Mr. Nall is a Senior Vice President of Thornton Tomasetti in New York. A graduate of Princeton University and Cornell University, he is a Registered Architect, a Professional Engineer, a LEED Accredited Professional, a certified Building Energy Modeling Professional and a High Performance Building Design Professional. ASHRAE activities include the ASHRAE Sustainability Oversight Committee, TC 4.7, the Building Energy Quotient Ad-Hoc and Oversight Committees, and the ASHRAE Advanced Energy Design Guide Steering Committee. He helped author the 30% AEDG's for Small Office Buildings, Small Retail Buildings, Roadside Lodging and Small Warehouses, and the 50% AEDG's for Medium Office Buildings and Medium and Big Box Retail Buildings. He received the ASHRAE New York Chapter Distinguished Service Award in 2011 and the ASHRAE Distinguished Service Award in 2012. He is a Fellow of the AIA, and a USGBC LEED Fellow. He has been a member of the Board of Directors of the NY Chapter, USGBC, the vice-chairman of the USGBC Energy and Atmosphere Technical Advisory Group and a member of the AIA National Committee on the Environment.

Mr. Nall was named one of the "25 Newsmakers of 2007" by Engineering News Record magazine. He was named "Outstanding Practitioner, 2004", by the US Chapter of the International Building Performance Simulation Association. Notable projects include the BASF U.S. Headquarters, the Newseum in Washington, DC, the Hearst Corporate Headquarters, the U.S. Embassies in Sofia, Bulgaria and Cape Town, South Africa, the Clinton Presidential Library, the New York Times Headquarters and the Alcoa Corporate Headquarters. He is the author of over 30 papers in technical and professional journals. He has been a Visiting Lecturer at the University of Pennsylvania, Cornell University and Princeton University Schools of Architecture and an Adjunct Associate Professor of Architecture at Columbia University.

### **Getting to 50—50% Advanced Energy Design Guide for Small and Medium Office Buildings**

The newly released ASHRAE 50% Advanced Energy Design Guide for Small to Medium Offices Buildings is the first volume of the new 50% AEDG's and the first of these guides fully to embrace the concept of integrated design. The Advanced Energy design Guides were originally conceived as a "cookbook" for newcomers to energy efficient design or teams without the resources to assess the conservation effectiveness of their design decisions. These 30% Advanced Energy Design Guides, for small offices, small retail buildings, highway lodging, small warehouses, K12 schools, and small hospitals, presented "a way, but not the only way" to achieve 30% savings with respect to the ASHRAE 90.1-1999 Standard. The new 50% AEDG for Small to Medium Office buildings, first of a series to include big box retail, k12 schools and hospitals, presents a more integrated approach to achieving 50% savings with respect to ASHRAE Standard 90.1-2004. This program will present concept of the new 50% AEDG for Small to Medium Office Buildings, its intended audience and use, the content of the document and the process by which the content was developed. These documents are an invaluable design resource, incorporating the best thinking on energy efficiency verified by a rigorous regime of computer simulation to verify the recommendations contained therein. The document contains a list of required energy performance criteria for each building system for each of the eight US climate zones. It also includes How-To tips for implementation of these measures, and includes a discussion of integrated design for energy efficiency to put these measures into the greater context of building performance.

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**LEHIGH VALLEY CHAPTER PROGRAMS CALENDAR 2013-2014**

Date	Location	Topic	Theme
8/14/14	Holiday Inn Fogelsville	“Filtration Performance and Testing: Are You Getting What You Are Paying For?” Presented by Danja McMillan of Camfil Farr	
8/21/14 To 8/23/14	Omni Hotel Richmond, VA	Region III Chapters Regional Conference	
10/10/14	2750 Limestone Street, Coplay, PA 18037	Lehigh Valley ASHRAE Sporting Clay Event	
10/15/14	Holiday Inn Fogelsville	Dust Collection and Associated Fire Protection Presented by Peter Levitt of Sternvent	RP Donor Recognition Night
11/19/14	Holiday Inn Fogelsville	Chilled Beam Design & Application Presented by Ryan Ruark of Swegon	Membership Promotion Night
12/17/14	Holiday Inn Fogelsville	Integrating IAQ and Energy Efficiency in Buildings Presented by Dr. William P. Bahnfleth ASHRAE Distinguished Lecturer	Student Activities / YEA Night
1/14/15	Holiday Inn Fogelsville	Steam System Design Presented by Dann Clapp of Clapp Associates	
2/18/15	Holiday Inn Fogelsville	Environmental Legislation and the Future of Refrigerants” Presented by Bill McQuade of Johnson Controls	
3/18/15	Holiday Inn Fogelsville	Data Center Design and ASHRAE Standard 90.4 Presented by Don Beaty ASHRAE Distinguished Lecturer	Research Promotion Night
4/23/15	H. T. Lyons	ASHRAE Webcast “Retro-Commissioning and the Life Cycle Cost Analysis.”	
5/20/15	Holiday Inn Fogelsville	Getting to 50-50% AEDG for small and Medium Office Buildings-Presented by Daniel Nall ASHRAE Distinguished Lecturer	Membership Promotion Night
6/5/15	Green Pond Country Club	Golf Outing Benefits ASHRAE Research	



The Lehigh Valley Chapter  
of the  
American Society of Heating,  
Refrigerating and Air  
Conditioning Engineers, Inc.

Click [here](#) to visit  
our web site at:

<http://www.lv.ashraechapters.org>

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not speak or act for the Society.

Any member with material to  
submit for inclusion in the  
*Insights* can send the information  
to:

Gary Debes  
P (484) 886-7400  
[c098pe@ashrae.net](mailto:c098pe@ashrae.net)

Material can include letters to the  
editor, member news, upcoming  
events, comments on chapter  
programs or issues, etc.

### Ideas for Seminars?

The Chapter Technology Transfer Committee is responsible for providing educational programming in the form of several seminars per year. The committee has planned some great meetings for the 2014-15 Chapter year, and we want to hear from you about content you would find relevant for a half-day seminar. Please send ideas to the Chapter Technology Transfer Committee at [c098cttc@ashrae.net](mailto:c098cttc@ashrae.net).

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### NEW LEHIGH VALLEY CHAPTER MEMBERS

#### Welcome to these new Members in the Lehigh Valley Chapter

Jerry Spott	Jeff Cully	Jerry Carrier	Gary Cawood
Julie Lippincott	Daniel Crouch	George VanEmburch	Manishkumar Patel
Craig Walls	Shane Niper	Doug Burner	Olin Marth
Jim Blanski			

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### LEHIGH VALLEY CHAPTER RESEARCH PROMOTION UPDATE

I would like to thank the following contributors to this year's Research Promotion Campaign

Gary C. Debes	Justin Knapp	Victaulic Company	David Strunk
Lee Snyder			

Last year's campaign raised over 2 million dollars for ASHRAE Research which ASHRAE matches with money from the AHR Expo. There are over 9 Million dollars of Research Projects being worked on at any given time. So please be generous when a committee member calls and asks for your support of these vital projects.

#### Our Status for 2014-2015

Gary C. Debes  
Lehigh Valley Chapter President Elect