May Member Meeting

Vibration and Noise
Victor Wowk, President, Machine Dynamics Inc

Tuesday, May 17, 2016
5:30pm – 7pm
Pappadeaux Seafood Kitchen

Presentation Outline

1. Approaching a noise or vibration problem
2. Space planning
3. Building transmission - airborne or structural
4. Sound measurements - dBa, dBc, Leq
   - Noise Ordinances
   - NC criteria in occupied spaces
   - STC or A-STC or NIC through walls
   - IIC through floors
   - RT60
   - NRC Noise Reduction Coefficient
   - Insertion loss
5. Air leaks
6. Steel Design Guide 11 - Floor Vibrations
7. Vibrations specs
   - ASHRAE .09 ips RMS for balance
   - AMCA for fans
   - NEMA for motors
   - Hydraulic Institute for pumps
   - ANSI S2.41 for general machinery
8. Isolation
9. Resonance - symptoms, tests, & fixes
10. Noise Demo (BBN box)
11. Questions

Register online at newmexicoashrae.org
Cost - Members: $25
Cost - Guests: $30

May 2016

May Member Meeting (cont’d)

About the Speaker

Victor Wowk is the president of Machine Dynamics Inc, which specializes in diagnosing and correcting vibration and noise problems. There are six employees in the company, which has been in business since 1988 in New Mexico. Victor graduated from the University of Michigan in 1975 with a degree in mechanical engineering. He is a registered professional engineer in New Mexico. Victor is the author of three textbooks in vibration. He teaches seminars on these subjects, and this presentation is drawn from that seminar material.

Upcoming Events

May 17  General Meeting & Chapter Awards
      Vibration and Sound
      5:30pm – 7pm at Pappadeaux Seafood

June 10  Pedaling for Porters
      3pm – 5:30pm at Duke City Pedalers

June 25-29  ASHRAE 2016 Summer Conference
      St. Louis, Missouri
      www.ashrae.org/stlouis

Aug 3-6  Region IX Chapter Regional Conference
      Omaha, Nebraska
      www.neashrae.org

Sept 9  NM ASRHAE Annual Golf Tournament
      7:30 am at UNM Championship Golf Course South
YEA Committee Presents...

**Pedaling for Porters!**

**DUKE CITY PEDALER**

**BEER BIKE**

**June 10th, 3pm**

Please join the YEA committee and Duke City Pedalers on June 10th at 3PM for a tour of downtown Albuquerque with stops at Marble, Tractor, and Rio Grande Breweries.

The Duke City Pedalers will provide their 14 seat “bicycle” and a driver and allow us to pedal ourselves to the various breweries. Seating is limited to 14 people with up to 9 additional slots for bike taxis if we fill up the 14 person bike, so please RSVP to Ryan Shaffer at ryan.shaffer@jci.com ASAP!

The cost is $25 per person, with the proceeds going to ASHRAE society research promotion. We look forward to see you there while we have some fun saving on carbon emission! Thank you

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**April 1969**

President: W. McCord  
President-Elect: B. Barnett  
Secretary: R. Friggins  
Treasurer: P. Lujan

The program featured Robert L. Lanier, Chief Engineer of the New York Blower Co. His talk focused on Fan Fundamentals.

Professor Ben Spurlock, Regional Director was in Albuquerque during the month and Bill McCord and Barc Barnett met with him to discuss the ASHRAE 75th Anniversary celebration at the upcoming 1969 ASHRAE Annual Meeting.

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**Seeking Volunteers and Leaders**

We are seeking individuals within to join the leadership team of the New Mexico ASHRAE chapter.

You can become more involved in a variety of positions which only requires a 1 year commitment! It’s a great chance to try it out.

Further your career, build your network of professionals, strengthen your leadership skills and implement new ideas within our professional community by volunteering as a Board of Governor. Contact any of the Board members to find out more.

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**Support ASHRAE Research**

We have currently raised $2,778 towards our goal! 100% of funds go directly into the research program to develop and advance our industry.
Thank You once again for the 2015 Sponsors:

**Title Sponsors:** Daikin Applied / Varitec Solutions and Captive Aire

**Silver Sponsors:** Mechanical Representatives and Bridgers and Paxton Consulting Engineers

**Beverage Sponsors:** Hanna Plumbing and Heating, AAON, Beaudin Ganze, Johnson Controls

**Hole Sponsors:** ArSed Engineering Group (AEG), Mechanical Products SW, Yearout Mechanical, Scoggin Mechanical, AAON, AAON, Munters, Sigler, Bridgers and Paxton, Travers Mechanical, Johnstone Supply, Ruskin, Trane, ECI, Boyd Engineering, CAC, AccuTherm, Centria / Midtown Metal, Cook, Mitsubishi, EEST, Johnston, Spec Air

Contact Allen Anaya for additional information: 505-385-7338 // allena@varitecsolutions.com

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**2016 NM ASHRAE**

**Golf Tournament**

**UNM Championship Golf Course**

Friday September 9th, 2016
7:30 AM Shotgun Start
4 Person Scramble -- Cost $115.00 per Person

*Sponsorships allow us to assist aspiring Students with Scholarships, Research and Development of new and refined standards, continued supplementing of programing lunches as well as general operational cost*

**Available Sponsorships:**

- **Title Sponsors:** $1,000.00 (Name Appears on all correspondence as well as Large Banner)
- **Gold Sponsor:** $750.00 (Name Appears on all correspondence)
- **Silver Sponsor:** $500.00 (Banner at Event)
- **Hole Sponsorships:** $175.00 (Personalized Sign placed at Tee Box for assigned Hole)
- **Beverage Sponsorships:** $250.00 (Recognized at entrance and awards portion of event for participation)
- **Raffle Prize Donations:** Items will be recognized by donor as they are raffled as well as in tournament correspondence. (Min. of $50.00 value)

As always we’re looking for tournament giveaways.
# 2015 – 2016 Board of Governors

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<th>Role</th>
<th>Name</th>
<th>Email</th>
<th>Contact Info</th>
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<td>Past President</td>
<td>David Graham (T&amp;D Services)</td>
<td><a href="mailto:D.Graham@t-d-services.com">D.Graham@t-d-services.com</a></td>
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<td>President</td>
<td>Joseph Higham</td>
<td><a href="mailto:joeh@varitecsolutions.com">joeh@varitecsolutions.com</a></td>
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<td>President-Elect</td>
<td>Stephen Forner</td>
<td><a href="mailto:stephen.forner@trane.com">stephen.forner@trane.com</a></td>
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<td>Chapter Technology Transfer Chair</td>
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<td>Jerry Hine</td>
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<td>Secretary</td>
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<td>Golf Tournament</td>
<td>Allen Anaya</td>
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<td>Interested in this position? Contact Joe Higham!</td>
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Check out our website to find out more about the Board, committees, and our initiatives. Contact any of the board members if you are interested in becoming more involved in our chapter. There are plenty of opportunities!
Join us at ASHRAE’s 2016 Annual Conference

June 25–June 29
St. Louis, Missouri
www.ashrae.org/stlouis

Earn Continuing Education Credits in St. Louis

**Full-day Seminars**
Saturday, June 25

- $510 ($415 ASHRAE Member)
- America’s Center Convention Complex
- Earn 6 PDHs / AIA LUs or .6 CEUs

**Half-day Courses**
Saturday, June 25 – Tuesday, June 28

- $184 ($139 ASHRAE Member)
- America’s Center Convention Complex
- Earn 3 PDHs / AIA LUs or .3 CEUs

Register Online: [www.ashrae.org/stlouiscourses](http://www.ashrae.org/stlouiscourses)

**By Phone:** 1-800-527-4723 (US and Canada) or 404-636-8400 (Worldwide)

**On-site:** America’s Center Convention Complex

Join ASHRAE as a Member or Associate by Friday, May 13, 2016 and be entered to win a LulzBot ® Mini Desktop 3D Printer! The winner will be contacted by Wednesday, June 8, 2016. [Learn More>>](http://www.ashrae.org/stlouiscourses)
ASHRAE Bookstore Customer Rewards Program

Earn valuable Techpoints every time you shop online in the ASHRAE Bookstore. Earn one Point for every dollar you spend online, then redeem your Techpoints for Amazon gift certificates and bookstore coupons. Enrollment is free through ASHRAE’s bookstore partner Techstreet, so start earning today! Learn more>>

Proposed ASHRAE Data Center Standard Open For Fourth Public Comment Period

May 4, 2016

Contact: Jodi Scott | Public Relations | 678-539-1140 | jscott@ashrae.org

ATLANTA – Industry input is being sought for the fourth public review of a proposed data center standard from ASHRAE. ASHRAE Standard 90.4P, Energy Standard for Data Centers, would establish the minimum energy efficiency requirements of data centers for design and construction and for creation of a plan for operation and maintenance, and for utilization of on-site or off-site renewable energy resources.

The standard is open for public comment from April 29 until May 29, 2016. To comment or learn more, visit www.ashrae.org/publicreviews.

“This standard impacts a specialized discipline so feedback from that industry is critical,” Ron Jarnagin, 90.4P committee chair, said. “The data center industry responded to the three public reviews thus far with more than 1,000 comments, which have guided us as we move toward publication. We are hopeful we will approve a final standard at the ASHRAE 2016 Annual Conference taking place this summer.”

Changes made as a result to the draft standard are:

- Revised the definition of incoming electrical service point
- Deleted exception 2 to 4.2.1.2, Additions to Existing Data Centers
- Corrected equations in 6.2.1.1 and 6.2.1.2. to correctly express peak power in all cases
- Deleted 3B Coast from Tables 6.2.1.1 and 6.2.1.2. to ensure alignment with ANSI/ASHRAE Standard 169-2013, Climatic Data for Building Design Standards
- Added section that describes the process for establishing Verification of Equipment Efficiencies to Section 6 & 8.
- Corrected Equations in Compliance Section 11.2.1.
- Revised Section 11.3, to indicate how compliance can be demonstrated through modeling of shared systems between ANSI/ASHRAE/IES Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings, and 90.4 spaces
- Updated references in Section 12 for Standard 90.1 and ASHRAE’s “Thermal Guidelines for Data Processing Environments.”

Those interested in learning more about the actions related to the standard can subscribe to a list serve at www.ashrae.org/listserv.

ASHRAE, founded in 1894, is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 50,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow’s built environment today. More information can be found at www.ashrae.org/news.

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