

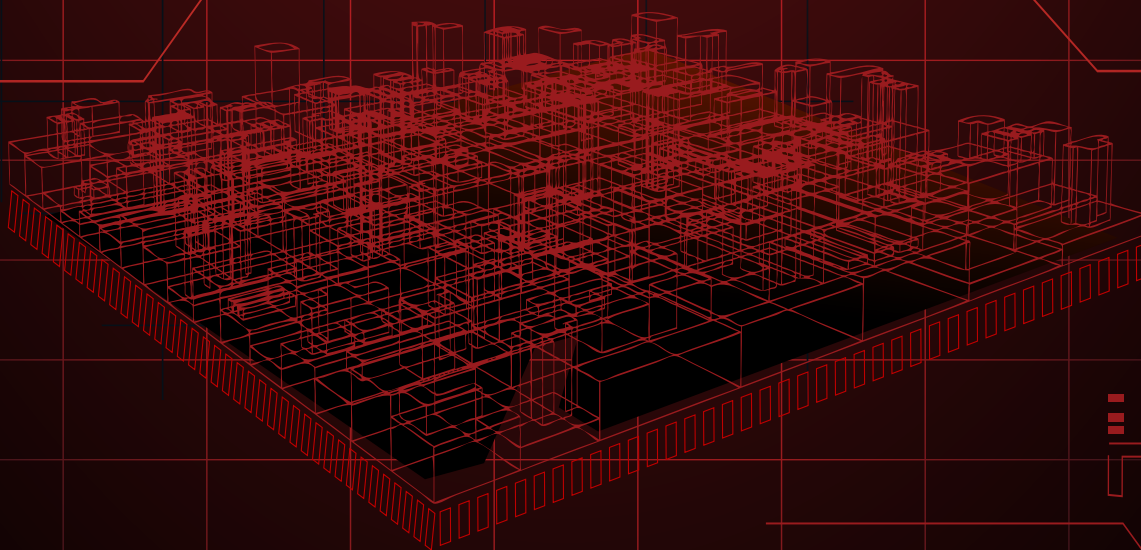


2018 AMCA ASET-US

Air System Engineering and Technology Conference

March 6 - 7, 2018

**Hyatt Regency San Antonio Riverwalk
San Antonio, TX**



www.aset-us.com

Welcome to Air System Engineering and Technology (ASET) Conference–US 2018, Air Movement and Control Association (AMCA) International’s inaugural yearly engineering conference on air systems.

ASET-US will provide in-depth technical education to engineers, architects, contractors, and commissioning providers. Registered Continuing Education Provider- (RCEP-) accredited certificates for professional-development hours will be issued for each one-hour session attended.

What to Expect

On March 6, ASET-US will begin with a luncheon featuring speaker David Sellers, PE, renowned commissioning and training expert and 2017 winner of the Building Commissioning Association’s Benner Award. His topic—“What Commissioning Has Taught Us About Mentoring and Design”—will be a great kickoff to a day-and-a-half of outstanding training.

ASET-US will feature two tracks: Air-Systems Design and Air Products & Technologies. Each track will include topical technical sessions:

Track 1: Air-Systems Design

- Optimizing an Existing Air System for Performance and Energy Efficiency
- Air-Distribution Design for Commercial Ventilation Systems
- Ensuring Fan Compliance with ASHRAE Standard 90.1
- VAV-System Design
- Tips and Tricks for Troubleshooting Fans
- Enforceable Specifications for AMCA-Certified Products

Track 2: Air Products & Technologies

- Fan Sizing and Selection: Basics and Fine Points
- Design Tips for Fire and Smoke Dampers
- Rain- and Hurricane-Resistant Louvers
- Air-System Motors, Drives—Sizing and Selection
- Understanding and Reducing Air-System Noise
- Minimizing Fan-System Effect

Attendees will not be locked into a track; they will be free to attend sessions across tracks!

ASET-US promises to be a practical and useful peer-to-peer learning experience. The speakers, many of whom are licensed professional engineers, were chosen based on their knowledge and experience with technical training. Their presentations will be free of commercial bias.

Registration Fees

\$375 AMCA members and guests paid for by AMCA members

\$400 Endorsing organizations (code required)

\$450 Non-member registration

Fees include lunch and dinner on Day 1 and breakfast and lunch on Day 2.

Accommodations

AMCA has procured a reduced-rate room block at Hyatt Regency San Antonio Riverwalk. Individuals are responsible for making their own hotel reservations. Please click on the "Hotel & Travel" tab for more information. To take advantage of the discounted rate, reserve by Monday, Feb. 12.

Sign Me Up

REGISTER NOW

To confirm your attendance, click the "Register Now" button. Please note: Each person attending requires a separate registration. To register more than one person, please use the "Add Another Person" option on the summary page. Be sure to select the appropriate attendee type for each registration.

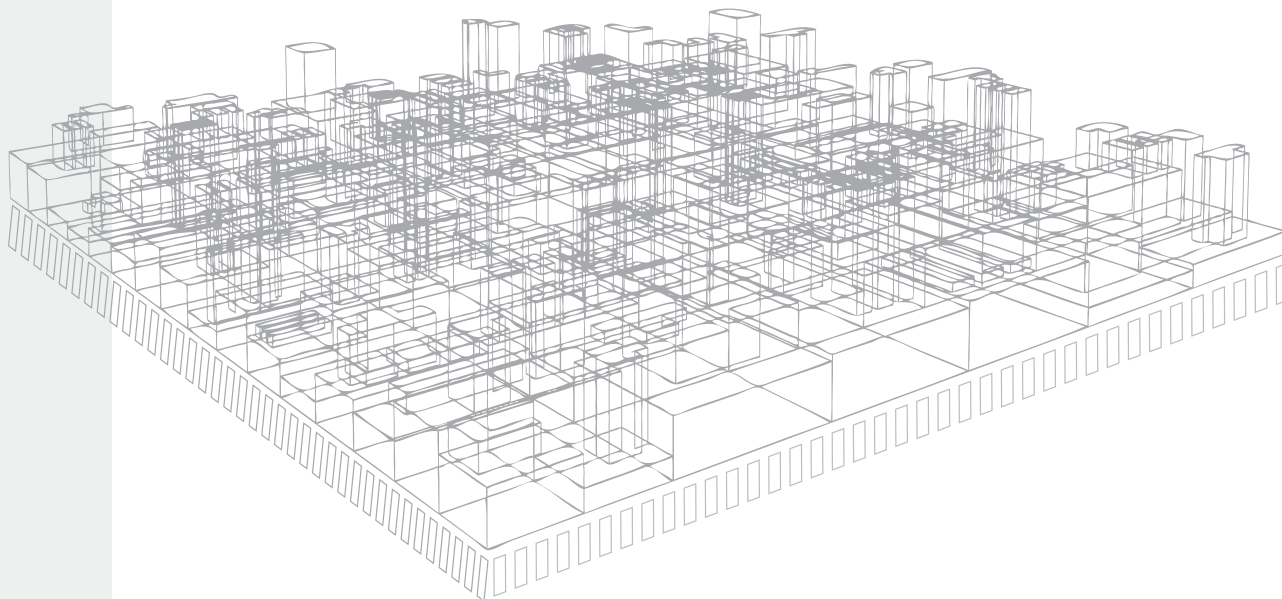
Conference registration will close on Monday, Feb. 26.

We look forward to seeing you in San Antonio!



AMCA members: Don't forget to register for AMCA's 2018 Spring Meetings for Sales & Marketing and Human Resources and Manufacturing Professionals, to be held March 5 and 6, also at the Hyatt Regency San Antonio Riverwalk. **Click here for information and to register.**

Please contact AMCA Meeting Manager Janet Blanchfield at JBlanchfield@amca.org or +1 (847) 704-6255 with any questions regarding registration.





Schedule/Sessions

Day 1 – Tuesday, March 6, 2018

Event	Time Start	Time End
Registration & Networking	11:00 AM	2:00 PM
Lunch and Plenary	12:00 PM	1:30 PM
Break	1:30 PM	2:00 PM
Session 1, Session 2	2:00 PM	3:00 PM
Session 3, Session 4	3:00 PM	4:00 PM
Break	4:15 PM	4:30 PM
Expo and Networking Reception and Dinner	5:30 PM	7:30 PM

Day 2 – Wednesday, March 7, 2018

Event	Time Start	Time End
Buffet Breakfast	7:00 AM	8:30 AM
Session 5, Session 6	8:30 AM	9:45 AM
Break	9:45 AM	10:00 AM
Session 7, Session 8	10:00 AM	11:00 AM
Expo and Lunch	11:30 AM	12:30 PM
Session 9, Session 10	12:45 PM	1:45 PM
Break	1:45 PM	2:00 PM
Session 11, Session 12	2:00 PM	3:00 PM

Please select your preferred selections: **Track 1 – Air Systems Design** **Track 2 – Air Products & Technologies**

Date/Time	Session Number	Track	Session Title/Presenter
Tuesday, March 6, 2018			
12:00 PM - 1:00 PM	-	-	Lunch and Plenary - What Commissioning Has Taught Us About Mentoring and Design <i>David Sellers, PE</i>
2:00 PM - 3:00 PM	1	1	Optimizing an Existing Air System for Performance and Energy Efficiency <i>Stephen Wiggins, PE</i> How to cost-effectively reduce static pressure, system leakage, and wasted energy in existing air systems.
2:00 PM - 3:00 PM	2	2	Fan Sizing and Selection: Basics and Fine Points <i>Mike Wolf, PE</i> Basics of fan sizing and selection for axial and centrifugal fans; introduction to the new Fan Energy Index metric that will replace Fan Efficiency Grade in ASHRAE 90.1 and other codes, standards and regulations.
3:15 PM - 4:15 PM	3	1	Air Distribution Design for Commercial Ventilation Systems <i>Dan Int-Hout</i> How to design overhead air distribution systems that meet ASHRAE Standards 62.1, 55 and 90.1.
3:15 PM - 4:15 PM	4	2	Design Tips for Fire and Smoke Dampers <i>Bill Koffel, PE, FPSE</i> Compartmentalization requirements driving fire/smoke damper requirements, and lifetime testing requirements explained.
Wednesday, March 7, 2018			
8:30 AM - 9:45 AM	5	1	Ensuring Fan Compliance with 90.1 <i>Jeff Boldt, PE, LEED, AP, HBDP</i> How to attain and document compliance with fan energy requirements in ASHRAE 90.1 and IECC.
8:30 AM - 9:45 AM	6	2	Rain and Hurricane Resistant Louvers <i>Jim Smardo</i> Louver sizing, selection, and specification for rain and wind-driven-rain louvers for generic and hurricane-prone-region codes.
10:00 AM - 11:00 AM	7	1	VAV System Design <i>Steve Taylor, PE</i> Expert tips for variable-air-volume ducted air-systems design.
10:00 AM - 11:00 AM	8	2	Air System Motors, Drives - Sizing and Selection <i>Trinity Persful</i> Update on motor, variable speed drive, and belt technologies and new AMCA standard for part-load calculations.
12:45 PM - 1:45 PM	9	1	Tips and Tricks for Troubleshooting Fans <i>Ron Wroblewski, PE</i> Expert guidance on field assessments of fan performance and troubleshooting problems.
12:45 PM - 1:45 PM	10	2	Understanding and Reducing Air System Noise <i>John Sofra</i> Noise and vibration attenuation in commercial air systems, including ducts.
2:00 PM - 3:00 PM	11	1	Enforceable Specifications for AMCA-Certified Products <i>Michael Ivanovich & Josh Parent</i> Update on AMCA Certified Rating Systems and how to properly specify AMCA-certified products in construction documents.
2:00 PM - 3:00 PM	12	2	Minimizing System Effect <i>Mark Bublitz & David Maletich</i> Expert tips for fan inlet and outlet conditions and minimizing performance losses in air systems.

Confirmed Speakers



Jeff Boldt, PE, LEED AP, HBDP, Principal & Director of Innovation and Quality, IMEG/KJWW, has over 35 years of experience in HVAC, plumbing, fire protection, and acoustical design. He is an ASHRAE Fellow, an author of the ASHRAE Advanced Energy Design Guides for large hospitals and small healthcare facilities, and a voting member for ANSI/ASHRAE/IES 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*; ANSI/ASHRAE/USGBC/IES 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*; ASHRAE GPC 36P, *High Performance Sequences of Operation for HVAC Systems*; and ASHRAE SPC 215P, *Method of Test to Determine Leakage of Operating HVAC Air-Distribution Systems*.

• **Ensuring Fan Compliance with 90.1** How to attain and document compliance with fan energy requirements in ASHRAE 90.1 and IECC.



Mark Bublitz, VP Engineering, The New York Blower Company, joined The New York Blower Co. in 1994 with a variety of experiences, including automotive manufacturing, design of aircraft-landing-system simulations, and creation of data-acquisition and computer control systems. He has led New York Blower's information-technology group and currently is responsible for engineering, order processing, and industry interests related to energy-efficiency regulation. He is a member of AMCA, the American Society of Mechanical Engineers, and ASHRAE. For AMCA, he chairs the Fan Regulation and Engineering Standards committees. Previously, he chaired AMCA's DOE Product Efficiency Task Force, Air Movement Division, and DOE Regulation Committee.

• **Minimizing System Effect** Expert tips for fan inlet and outlet conditions and minimizing performance losses in air systems.



Dan Int-Hout, Chief Engineer, Krueger. Responsible for the presentation of technical data and advanced application engineering for Krueger, Dan Int-Hout has been in the air-distribution research and design business since 1973. Over the years, he has published numerous technical papers and articles on variable-air-volume-system performance, acoustics, air diffusion, controls, and occupant comfort. A recipient of the ASHRAE Distinguished Service and Exceptional Service awards and an ASHRAE Distinguished Lecturer, he recently chaired ASHRAE technical and standards committees on thermal comfort.

• **Air Distribution Design for Commercial Ventilation Systems** How to design overhead air distribution systems that meet ASHRAE Standards 62.1, 55 and 90.1.



Michael Ivanovich, Senior Director, Industry Relations, AMCA International. The point person for AMCA advocacy initiatives involving codes, standards, and regulations, including ANSI/ASHRAE/IES 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, the State of California, and the International Energy Conservation Code, Michael Ivanovich has been with AMCA for more than six years. Prior to joining AMCA, he was the chief editor of *Consulting-Specifying Engineer* and *HPAC Engineering* magazines and a building research scientist with Pacific Northwest National Laboratory.

• **Enforceable Specifications for AMCA-Certified Products** Update on AMCA Certified Rating Systems and how to properly specify AMCA-certified products in construction documents.



Bill Koffel, PE, FSPE, President, Koffel Associates. A former code official with the Maryland Office of the State Fire Marshal and a past president of the Society of Fire Protection Engineers, Bill Koffel, PE, FSPE, is an expert on fire-protection and life-safety aspects of codes and standards. His firm provides consulting, engineering design and construction administration, codes and standards development, seminar development and training, product testing and evaluation/representation, and litigation support to public and private clients worldwide. He is active in the development of the industry's governing codes, standards, and design guidelines.

• **Design Tips for Fire and Smoke Dampers** Compartmentalization requirements driving fire/smoke damper requirements, and lifetime testing requirements explained.

Confirmed Speakers (continued)



David Maletich, Director of Marketing, The New York Blower Company, has more than 27 years of experience adapting fans to various industrial, process, and municipal applications. In addition to his marketing-related functions, he directs New York Blower's Technical Support Group and is heavily involved in product development. He serves on various AMCA committees and has presented seminars on various fan-related topics at the Industrial Ventilation Conference and for ASHRAE, the Occupational Safety and Health Administration, the Nuclear HVAC Utility Group, and various consulting engineering firms.

- **Minimizing System Effect** Expert tips for fan inlet and outlet conditions and minimizing performance losses in air systems.



Josh Parent, Laboratory Manager, AMCA International, has over 16 years of experience cultivating relationships specific to trade associations, with a focus on management, laboratory testing, and customer service. He started working for AMCA as a laboratory technician in 2001. In late 2009, after a short stint as quality manager, he was promoted to laboratory manager. Currently, he is pursuing Certified Association Executive (CAE) certification.

- **Enforceable Specifications for AMCA-Certified Products** Update on AMCA Certified Rating Systems and how to properly specify AMCA-certified products in construction documents.



Trinity Persful is vice president of marketing for Twin City Fan Companies Ltd. Over the last several years, he has served on AMCA's Fan Regulation Committee and been heavily involved in energy negotiations with the U.S. Department of Energy and the California Energy Commission. A strong advocate for the health and improvement of the AMCA brand, he also serves on AMCA committees involved with Standard 208 development and extended motor product labeling and is chair of the AMCA Rebate Committee.

- **Air System Motors, Drives - Sizing and Selection** Update on motor, variable speed drive, and belt technologies and new AMCA standard for part-load calculations.



David Sellers, PE, Senior Engineer, Facility Dynamics. During his more than 30 years in the HVAC industry, David Sellers, PE, has been an industrial facility engineer, a commercial HVAC consulting engineer, a field commissioning agent, a commissioning instructor, a blogger, and an author. In 2017, he received commissioning's most prestigious honor, the Nancy Benner Award.

- **What Commissioning Has Taught Us About Mentoring and Design**



Jim Smardo, Director of Louvers and Architectural Systems, Ruskin. Since joining Ruskin in 1994, Jim Smardo has held positions in engineering, sales, marketing, estimating, and new-product development, all in the louver architectural group. Working with general contractors, building owners, sheet-metal contractors, and manufacturing representatives, he has expertly covered all phases of louvers, driving specifications and design-build. He has a strong focus on customer service, growth, and manufacturing excellence. He is a member of multiple AMCA committees and is chair of the Louver Marketing Task Force.

- **Rain and Hurricane Resistant Louvers** Louver sizing, selection, and specification for rain and wind-driven-rain louvers for generic and hurricane-prone-region codes.



John Sofra, U.S. Markets Manager - Airflow Attenuation, Industrial, Environmental Markets, Kinetics, manages sales and marketing efforts for the U.S. industrial, environmental, and airflow attenuation markets for Kinetics Noise Control Inc. This encompasses sound and vibration isolation for industrial equipment and processes and ventilation sound control for HVAC duct systems and industrial fans. He has a bachelor's degree in mechanical engineering and is a member of ASHRAE. He has served on numerous ASHRAE technical committees for acoustics and vibration and taught continuing-education courses on ventilation and acoustics at the University of Wisconsin-Madison.

- **Understanding and Reducing Air System Noise** Noise and vibration attenuation in commercial air systems, including ducts.

Confirmed Speakers (continued)



Steve T. Taylor, PE, Principal, Taylor Associates. A specialist in HVAC-system design and commissioning, control-system design, indoor-air-quality engineering, and computerized building energy analysis, Steven T. Taylor, PE, was one of the primary authors of the HVAC sections of ANSI/ASHRAE/IES 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings, and California's Title 24 energy and ventilation standards. He is an ASHRAE Fellow and the rare individual to have received all of ASHRAE's top awards for technical achievement. He has written more than 35 peer-reviewed ASHRAE Journal articles and technical papers and served on various ASHRAE project and technical committees.

• **VAV System Design** Expert tips for variable-air-volume ducted air-systems design.



Stephen Wiggins, PE, Associate Partner, Newcomb & Boyd MEP Engineering and Consultants, has over 35 years of experience optimizing building operations, his work involving commissioning, retrocommissioning, and operations and training activities for more than 400 projects totalling over 30 million sq ft of space. Widely published in *ASHRAE Journal*, *ASHRAE Transactions*, and industry handbooks, he teaches certification seminars for commissioning and retrocommissioning professionals. He is a past president of the National Environmental Balancing Bureau and an active member of ASHRAE, the American Society for Healthcare Engineering, and many other associations.

• **Optimizing an Existing Air System for Performance and Energy Efficiency** How to cost-effectively reduce static pressure, system leakage, and wasted energy in existing air systems.



Mike Wolf, PE, Director, Regulatory Business Development, Greenheck, is a 30-year veteran of the HVAC industry, having held positions in engineering, sales, marketing, software development, and general management with Greenheck. Currently, he works with industry and government organizations and others developing standards designed to reduce HVAC energy consumption in commercial buildings. He is a member of AMCA's Board of Directors and a Secretary of Energy appointee to the U.S. Department of Energy's Appliance Standards and Rulemaking Federal Advisory Committee.

• **Fan Sizing and Selection: Basics and Fine Points** Basics of fan sizing and selection for axial and centrifugal fans; introduction to the new Fan Energy Index metric that will replace Fan Efficiency Grade in ASHRAE 90.1 and other codes, standards and regulations.



Ron Wroblewski, PE, President, Productive Energy Corp., has over 30 years of experience designing, analyzing, specifying, and optimizing industrial and commercial energy systems, including fan, pump, blower, and HVAC systems. A highly rated professional trainer, he is lead senior trainer and training developer for fan-system optimization for the U.S. Department of Energy and the United Nations Industrial Development Organization. He is a member of ASHRAE.

• **Tips and Tricks for Troubleshooting Fans** Expert guidance on field assessments of fan performance and troubleshooting problems

Top Five Reasons to Attend the 2018 AMCA ASET-US!

1. In-depth technical education from highly qualified speakers
2. Earn RCEP- credits—eligible for up to 7 PDHs
3. Opportunity to network with top leaders in the industry
4. New perspectives and solutions on topics affecting you everyday
5. Chance to enjoy a great location at a wonderful time of year

Register today!