

Practical Application of Energy Conservation with ASHRAE Standard 62.1

Tuesday, May 6, 2014



ASHRAE Distinguished Lecturer – Christopher O. Muller is the Technical Director at Purafil, Inc. of Doraville, GA (USA), a manufacturer of gas-phase air filtration media, filters, equipment, and air monitoring instrumentation. He is responsible for technical support services and various research and development functions. Prior to joining Purafil, he worked in the chemical processing, pharmaceutical manufacturing, and environmental industries.

Mr. Muller has written and spoken extensively on the subject of indoor air quality and the application/use of gas-phase air filtration and counts four handbooks and over 50 papers and articles to his credit. He is a co-author of the Standard 62.1 User's Manual and authored the chapters on "Gaseous Contaminants" in the *NAFA Guide to Air Filtration* and on "Airborne Molecular Contamination" in McGraw-Hill's *Semiconductor Manufacturing Handbook*. He has consulted on the preparation of Dutch and Italian governmental standards for air quality in museums and has worked with many conservation groups in the U.S. and abroad to develop and implement environmental control strategies for airborne contaminants.

Presentation Abstract: Practical Application of Energy Conservation with ASHRAE Standard 62.1
In times when energy conservation is at the forefront of many peoples' minds, the Indoor Air Quality (IAQ) Procedure described in ASHRAE Standard 62.1 is an alternative and often neglected method for complying with the ventilation requirements of the standard while at the same time offering a considerable opportunity for energy conservation. Practical applications of the IAQ Procedure will be presented to show that recirculation used along with enhanced air cleaning can effectively provide acceptable air quality, reduce outdoor air requirements, and reduce energy costs. Examples will be presented that illustrate capital, HVAC equipment, and system renovation savings as well as energy savings possible by employing the IAQ Procedure.

Earn 1 hour of Professional Development Hours at this meeting.

Date: ***TUESDAY** May 6, 2014

Lunch Location: ITT TECH – Theory 4 – 5425 Robin Hood Rd, Norfolk, VA 23513

- *Enter Building Doors right below ITT Tech Sign hanging from Bldg Facade*
- *Turn right in the foyer and pass the receptionist desk*
- *Take double doors out of foyer and ASHRAE sign in desk will be in the hallway*

Time: Meet and Greet/Lunch at 11:45am and Tech Session begins at 12:00 pm

Payment: Members = \$20.00 Non-Members = \$25.00 Students = \$10.00

For reservations go to <http://hamptonroads.ashraechapters.org/>

ASHRAE Distinguished Lecturer – Christopher O. Muller



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Christopher O. Muller is the Technical Director at Purafil, Inc. of Doraville, GA (USA), a manufacturer of gas-phase air filtration media, filters, equipment, and air monitoring instrumentation. He is responsible for technical support services and various research and development functions. Prior to joining Purafil, he worked in the chemical processing, pharmaceutical manufacturing, and environmental industries.

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Mr. Muller chairs ASHRAE's Standard Project Committee 145P, which is developing industry standards for assessing the performance of media and equipment used in gas-phase air filtration systems. He serves on SSPC 62.1 – Ventilation for Acceptable Indoor Air Quality and TC 2.3 - Gaseous Contaminant Removal Equipment. He is also a member of ISIAQ's Task Force on IAQ and climate in cultural and heritage collections, A&WMA's IAQ Committee, ASTM committees on Indoor Air and Activated Carbon, and ISA's committee on Environmental Conditions for Process Measurement and Control Systems. He is a senior member of the IEST and contributes to their working groups on cleanroom environments and design considerations for AMC filtration systems. He serves on the Yield Enhancement Technical Working Group for the 2005 update to the International Technology Roadmap for Semiconductors (ITRS).

Mr. Muller has testified before OSHA on proposed Indoor Air Quality legislation, has consulted on the preparation of Dutch and Italian governmental standards for indoor environments, and has worked closely with many state and national agencies in the U.S. and abroad to develop and implement indoor environmental control strategies for airborne contaminants. He has consulted on the preparation of Dutch and Italian governmental standards for air quality in museums and has worked with many conservation groups in the U.S. and abroad to develop and implement environmental control strategies for airborne contaminants.

Mr. Muller received his B.S. in Applied Biology with a minor in Chemistry from Georgia Tech and has done postgraduate work in Industrial Engineering at Southern Polytechnic State University.