

Laboratory Fume Hood Safety Training & Best Practices for Laboratory Design 2010

Hosted by:



The Weston Chicago Northwest (Itasca)
Chicago, IL
September 15 and 16, 2010

Why LabWize, Inc.?

- Professional Development and Networking Opportunity
- Promote Energy Efficiency and Sustainability
- Increasing the Impact of Investments in Research
- Fostering Research Excellence
- Enhancing Learning and Transfer of Knowledge
- Leveraging the Strengths of Government, University and Private Sector

Who should Attend?

- Facilities Managers
- Facility Owners
- Facility Engineers
- Mechanical Engineers
- Maintenance and Operations
- Environmental Health & Safety
- Laboratory Design Architects and Engineers
- ASHRAE & USGBC Members
- Contractors

Sponsored and Supported by:

- Exposure Control Technologies, Inc.
- Facilities Solutions Group
- FGM Architects
- Greenheck Fan Company
- Payette
- Siemens Industries Inc.
- Specialty Operations Solutions, Inc.
- The Green Roundtable / NEXUS
- University of Illinois, Chicago

LabWize will be hosting a Three (3) Day course on
Laboratory Fume Hood Tester Training August 10 - 12, 2010
(Based on ASHRAE 110)

Call 678-867-2182 for Details
Or Register Now at www.LabWize.org



Starts 7:30 AM Registration & Brunch - Wednesday, September 15, 2010

8:00 - 8:15 Welcome and Introduction: Douglas A. Friedman – LabWize, Inc.



Laboratory Fume Hood Safety Training

Presented by Tom Smith - Exposure Controls Technologies, Inc.

8:15 - 9:45 Laboratory Fume Hood & System Operation

9:45 - 10:00 Break

10:00 - 12:00 Laboratory Energy Cost Reduction

12:00 - 1:00 Lunch

1:00 - 1:15 Introduction to Sponsors

1:15 - 3:00 Laboratory Fume Hood Management

3:00 - 3:15 Break

3:15 - 4:15 Managing Lab Safety and Fume Hood Performance



Review

Thomas C. Smith – President, Exposure Control Technologies, Inc.

Mr. Smith is a leader in laboratory safety and energy management. He specializes in helping laboratories provide safe, dependable, and energy-efficient operation of laboratory hoods and ventilation systems. He holds a Bachelor of Science degree in mechanical engineering from North Carolina State University and a Master of Science degree in environmental engineering from the University of North Carolina. Mr. Smith is active in developing national and international standards for laboratory ventilation and serves as Chairman of ASHRAE TC9.10 Laboratory Systems and Vice Chairman of ANSI/ASHRAE 110 Fume Hood Testing. He is also a member of ANSI/AIHA Z9 Standards for Ventilation and Health.

Laboratory Fume Hood Safety Training

Course Overview:

Determine when potentially unsafe conditions exist in laboratory air environments, and instruct laboratory users in proper operation.

- Define the nature of hazardous procedures in laboratory hoods
- State the factors of hood design that affect performance
- Describe how laboratory hood systems operate
- Describe the operation of laboratory ventilation systems
- Describe how to conduct performance and safety tests on laboratory fume hoods
- Provide a description of work practices necessary to minimize potential exposure
- Describe practices for successful management of laboratory ventilation systems

Outline/Agenda:

This one-day training course gives a detailed overview of laboratory air systems, containment devices (i.e. fume hoods), and the ways in which the ventilation systems should be operated to maintain a safe working environment. The laboratory sessions will consist of demonstrations of fume hood operation, and laboratory fume hood safety/performance tests according to the ASHRAE110/1995 Method For Testing Performance of Laboratory Hoods.

At the end of the course, the students will have a thorough (or refreshed) working knowledge of laboratory ventilation systems, and how to help ensure that their laboratory personnel are operating those systems in as safe a manner as possible.

Credits earned: 1.0 Industrial Hygiene CM Point

Starts 7:30 AM

Registration & Brunch - Thursday, September 16, 2010



8:00 - 8:15

Welcome and Introduction: Douglas A. Friedman – LabWise, Inc.

8:15 - 9:30

The Donor Funded Project – Serving Multiple Masters

**Bradley W. Appier - Office of Capital Programs, University of Illinois, Chicago
William G. Bailey - Facilities Solutions Group**

9:30 - 10:45

Energy Reduction Strategies in Research Animal Facilities

Kurt Last – Specialty Operations Solutions, Inc.

10:45 - 11:00

Break

11:00 - 12:15

Advanced Control Design for Laboratory Design

Paul Fuson – Siemens Industry, Inc. /Building Technologies Division

12:15 - 1:15

Lunch

1:15 - 1:30

Introduction to Sponsors

1:30 - 2:45

Fan Technologies, Energy Efficiency for Laboratories 2010

Tony Rossi – Greenheck Fan Company

2:45 - 3:00

Break

3:00 - 4:15

Case Study: Natural Ventilation Strategies for Academic Laboratory Buildings

**Christopher E. Baylow AIA - Payette &
Jacob W. Knowles, LEED AP - The Green Roundtable / NEXUS**

4:15

Open Discussion - Please submit topic.

Bradley W. Appier - Associate Director/Project Management Services, Office of Capital Programs, University of Illinois, Chicago

Mr. Appier is a Registered Architect who oversees the planning, design and construction of a range of research facility projects in the biosciences, physical sciences and engineering. He is responsible for leading a staff of project managers and support staff in the delivery of a variety of laboratory projects on the Chicago, Rockford, and Peoria Campuses.

William G. Bailey, CSI – Founding & Managing Principal of Facilities Solutions Group

Mr. Bailey brings 23 years of cutting edge professional experience and dynamic leadership to the forefront in meeting the challenges of today's advanced technology, research and manufacturing markets. His creativity as a design professional provides expertise and services far outside the norm for the architectural engineering community. His expertise covers provision of project development, including needs assessment, validation, business planning, financial strategies development, operational planning, community interface and support assessments, the development of incubator program strategies, as well as implementation of technology transfer initiatives.

Christopher E. Baylow, AIA - Associate Principal, Payette

Mr. Baylow's professional concentration has been on academic science and healthcare facilities. Chris is a member of the Research and Innovation Group and Chair of School of Architecture Recruiting Program at Payette and has been a faculty member and thesis critic at the Boston Architectural Center. Bachelor of Architecture, 1988, Syracuse University, School of Architecture, Syracuse, NY; International Studies Abroad Program, Florence, Italy, 1987.

Paul Fuson - Sr. Product Manager for Life Sciences & Critical Environments, Siemens Industries, Inc.

Since joining the company in 1984, Paul has held positions in purchasing, product development, marketing and sales management. Paul's earliest work experience was as a design engineer and project manager for a manufacturer of nuclear and gas turbine power generation systems. He holds Bachelor of Science degrees in Mechanical Engineering and Physics from the University of Illinois, and a Masters of Management degree from Northwestern University.

Jacob W. Knowles, LEED AP, Senior Project Manager The Green Roundtable / NEXUS

Mr. Knowles' experience championing sustainable projects ranges from super-insulated homes to large-scale commercial, multi-use, and industrial LEED-Certified projects. With a background in architectural design, cost-estimating, and construction, Jacob has forwarded the sustainability agenda from a variety of perspectives. His current role at NEXUS involves integrated-design facilitation, LEED project management, sustainable strategy guidance, technical review of project documents, and carbon footprint analysis. Jacob has also co-developed and presented a variety of green building and energy-efficiency trainings.

F. Kurt Last - President, Specialty Operations Solutions, Inc.

Mr. Last has more than 20 years experience in programming, design, commissioning and operating laboratory, cGMP pharmaceutical manufacturing and research animal care facilities. Prior to founding Specialty Operations Solutions (SOS) in 1997, Mr. Last was Senior Director of Operations for a cGMP biologics manufacturing company, leading teams charged with Facilities (Research & cGMP Manufacturing) Operations; Calibration & Metrology; Research Animal Care and Security, Environmental Health & Safety. SOS provides programming, design, financing, sciences integration & quality assurance, veterinary & research animal care support, complete (FDA) regulatory services, commissioning & start up, and operations.

Anthony (Tony) Rossi, ME - Director of Laboratory Exhaust Systems - Greenheck Fan Corporation

Anthony (Tony) Rossi, is Director of Laboratory Exhaust Systems, Greenheck Fan Corporation, Schofield, Wisconsin. Tony has a Bachelors & Masters degree in Mechanical Engineering, and has over 30 years experience in the industrial ventilation industry, the past 15 dedicated to laboratory ventilation. An active member in ASHRAE TC 9.10, Lab Systems, Tony has also served on both ASHRAE and ARI standards development committees, as well the Education Committee Chair for ASHRAE Central Indiana.

I'd like to attend:
Best Practices for Laboratory Design 2010 Hosted by LabWize, Inc.

The Weston Chicago Northwest

400 Park Blvd. Itasca, IL 60143

For Hotel Reservations:

Contact: **The Weston Chicago Northwest**

(630) 773-4000 to receive \$129.00/ Night plus tax, Use Reference Code: "LabWize" before **September 1, 2010**

Seminars Will Include:

- Continental breakfast and lunch
- LabWize, Inc. presentation materials
- Certificate for Educational credits

Register at:

www.LabWize.org or CALL: (678) 867-2182 or print out this page, fill it out, and FAX: (678) 867-2183

Event Date	Program	List Price		Early Registration		Type Code or Association in Discount Box On Registration Form
		US\$	US\$	US\$	US\$	
06/16	Day 1	\$650.00	\$425.00	\$525.00	\$300.00	Government "GOVT"
06/17	Day 2	\$650.00	\$425.00	\$525.00	\$300.00	University "UNIV"
	Both Days Two Day Package	\$1,100.00	\$790.00	\$900.00	\$575.00	Member "Member"

Government, University, Member
 ASHRAE, AIA ASTM, NBO,
 NEBB, ASPE, ISPE, USGBC

Discount Codes

Early Registration Before September 7, 2010

For Promotion, type "LabWize" in the comments field on the registration page. Registration is limited each day, so sign up today. To learn more and register, go to www.LabWize.org and click the Seminars link.

Make Checks Payable to "LabWize, Inc." and mail to the address below.

Cancellation Policy: Full refund up to ten (10) days prior to event with written notice.

LabWize, Inc. is committed to hosting green meetings and ensuring that all environmental aspects are considered. Therefore, all presentation materials will be available for download prior to the event for registered attendees.

Instructions for download to Attendees will be e-mailed one (1) week prior to the event.

Name: _____ Title: _____

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