

SAFE Labs can be GREEN Labs

Hard Facts and Data for the EH&S Community; Tools, Tips and Hints for Lab Designers

LEARN TO ACHIEVE MASSIVE ENERGY SAVINGS WITHOUT COMPROMISING SAFETY

[The Laboratory Safety Institute](#) and Erlab Inc, the maker of [GreenFumeHood](#) Technologies have come together to present the **Safe Labs can be Green Labs Conference** which is a day-long series of presentations given by experts in lab safety, lab ventilation, filtration and lab design.

Join us at one of two locations to learn about green trends and safety issues and how the two really can coexist in the same lab... without breaking the bank. Attendees will also learn about the newest in FumeHood filtration technology. Please click on the dates below to join us at one of the following locations:

February 7, 2012 Kansas City, MO
[The Intercontinental Kansas City, MO](#)
401 Ward Parkway,
Kansas City, MO 64112
816-756-1500

February 9, 2012 Austin, TX
[The Hyatt Regency, Austin, TX](#)
208 Barton Springs,
Austin, Texas, USA 78704
512 477 1234

■ Keynote Speaker

Karl Aveard, Vice President Green Fumehood
Erlab

■ A Realistic Vision of the Lab of the Future Beyond 21st Century Design - Identifying, Then Connecting the Right Dots

Clay Stafford, Principal
Health, Education + Research Associates (HERA)

■ Fume Hoods / Quantum Leaps

Jon Zboralski, Director Air Flow Products
Thermo Fisher Scientific

■ The Science Supporting GreenFumeHood®: Molecular Adsorption Explained

Dr. Cédric Herry
Director of Research & Development
Erlab

■ Benefits of Filtered Fume Hood Technology on Laboratory Building Design

Jeanne Qiu, AIA, LEED AP, Architect
Erlab

■ Slash Lab Building Energy Use by 50% Using Demand Based Control

Gordon Sharp, President and Founder
Aircuity, Inc.

■ Methods to Ensure Performance and Energy Savings Using Filtered Fume Hoods

Tom Smith, President
Exposure Control Technologies

■ Butler University Green FumeHood Case Study

Jim Hill, AIA LEED AP
BSA Life Structures

Register at:

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\$195 One day entry to all presentations
Continental breakfast, lunch
afternoon and morning refreshment

Access Code to download a copy of
each presentation.

Moderated by:
Karl Aveard, Technologies® LEED AP
Vice President, GFH
(Green Fume Hood)

Presented by:



LabWize is a Supporter of **SAFE Labs can be GREEN Labs Conference** for
Best Practices for Laboratory Design, Safety and Sustainability
For additional details and registration, visit www.LabWize.org
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7:00 AM	Registration and Breakfast
8:00 AM	Keynote Speaker Karl Aveard, Vice President; Erlab   <p>Mr. Karl Aveard, a lab design expert and LEED accredited Professional, has held several impressive industry professions, including National Architectural Services Manager at Durcon, Inc.; Associate Partner at Syska Hennessy; Assistant Director of Engineering/Marketing at Earl Walls Associates. Currently he is Vice President for GFH Technologies USA. Karl is also actively involved in the following industry groups: ASHRAE, CSI, AIA, USGBC, CETA and SEFA.</p>
8:15 AM	A Realistic Vision of the Lab of the Future Beyond 21st Century Design - Identifying, Then Connecting the Right Dots Clay Stafford, Principal; Health, Education + Research Associates  <p><i>“Connecting the dots” – before the dots can be connected, you must collect the right dots. Starting with bad or old information can lead to outdated, problem-laden or even bloated solutions. For example, recent facilities - lauded for “changing the paradigm,” upon closer inspection are simply repackaged concepts placed in pretty buildings. So, what (really) is the lab of the future? New challenges such as safety, capital, demand, competition and saturation are the chief concerns of decision influencers (policy makers, EHS, facility and engineering staff). How will these concerns affect full sustainability? Shared use? Will technology advancements lead to something unforeseen? Collecting the right dots is the starting point for the real future proof lab.</i></p> <p><i>As a programmer and strategist - I intend to present “thought starters” to open the presentation, and discuss formative questions to truly achieve change in lab design.</i></p> <p>Mr. Clay R. Stafford has focused on strategic and master planning, facility programming and planning for more than 20 years. He has planned and programmed over 30 million square feet of facilities for corporations, academic institutions, governments, crime investigation agencies and medical clients around the world. Most recently Clay has been working with the FBI to re-invent their 460,000 SF Forensic Laboratory Building in Quantico, Virginia. A gifted communicator and strategic thinker, he has lectured and authored on the topic of laboratory planning throughout the decade. His contribution to the R+D Handbook, “The Care and Feeding of Scientists – How much is too much?” has quickly become an industry standard for “right sizing” lab facilities.</p>
9:15 AM	Fume Hoods / Quantum Leaps Jon Zboralski, Director Air Flow Products; Thermo Fisher Scientific  <p><i>This session will provide an overview of the past and current quantum leaps in the industry. Approximately every decade a new technology has entered the industry in attempt to minimize the cost impact of fume hoods in the laboratory marketplace. Current low flow & high performance hood designs from various manufacturers, VAV systems, as well as the current filter technology will be discussed.</i></p> <p>Mr. Zboralski has over 40 years of experience in the design, development, and application of laboratory products, specializing in laboratory fume hoods. Jon is a published author and holds numerous patents on airflow related products. He is active in the lab industry serving on the Scientific Equipment and Furniture Association (SEFA) Fume Hood Committee. Jon has been deeply involved in the development and application of the ASHRAE 110 fume hood test procedure since its inception in 1985. He is a voting member on the re-write committee that maintains the standard. Jon speaks nationally on fume hood related issues and is in demand as a recognized innovative authority on the subject.</p>
10:15 AM	Break and Networking
10:30 AM	The Science Supporting GreenFumeHood®: Molecular Adsorption Explained Dr. Cédric Herry, Director of Research & Development; Erlab  <p><i>Dr. Herry will focus on addressing the concerns of the Environmental Health and Safety Professional / Industrial Hygienist Professional regarding filtration technology as a viable option to ducted fume hoods. Issues like, trusting a filtered hood in your lab, understanding desorption, knowing when filters are saturated, and proper disposal of expired filters will be discussed.</i></p> <p>Dr. Cédric Herry earned his PhD in Environmental Chemistry and Microbiology as well as a Masters Degree in Environmental Technologies. He is an expert on activated carbon and standardization (French Committee UNM61 and European Committee WG4) and has been the director of R&D for ERLAB, France since 2001.</p>
11:30 AM	Benefits of Filtered Fume Hood Technology on Laboratory Building Design Jeanne Qiu, AIA, LEED AP , Architect; Erlab  <p><i>Chemical Fume hoods are an essential component of any laboratory. Historically, fume hoods are one of the largest consumers of energy within a laboratory building, releasing hazardous chemicals into the environment. The introduction of Filtered Fume Hood Technology provides a revolutionary solution to the safe and sustainable laboratory. My presentation will show how this technology can benefit the laboratory building design. Reduce energy consumption, save infrastructure cost, lower maintenance fee, provide flexibility in lab design and planning, shorten the construction time, and being earth-friendly are among the benefits of using the Filtered Fume Hood Technology. Creating a safer and healthier working and learning environment, a carbon-neutral laboratory is one step closer to become part of sustainable building.</i></p> <p>Ms. Qiu is an architect with Erlab Inc. Before joining Erlab, Ms. Qiu earned a Master of Architecture at Washington University in St. Louis and a BA of Architecture at Southeastern University in China. She has since worked at architectural firms such as Cannon Design which is recognized for design excellence and technological innovation, and she has been involved in several building projects spanning from laboratories and office buildings to University and K-12 buildings.</p>
12:00 PM	Lunch

<p>1:00 PM</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>Slash Lab Building Energy Use by 50% Using Demand Based Control Gordon Sharp, Chairman & Founder; Aircuity, Inc.</p> <p><i>Demand Based Control is a proven approach to slash laboratory building energy use by up to 50% by safely varying a lab room's dilution ventilation airflow based on real time measurement of the room's indoor environment. When viewed holistically as a critical part of a total lab energy savings solution it can also make other technologies such as chilled beams and heat recovery systems both significantly less costly to employ and more energy efficient. Low flow and very low energy lab design is enabled with this approach as well as even near net zero lab design.</i></p> <p><i>This presentation will discuss this concept and present several case studies such as the Arizona State University's Biodesign Institute where a Demand Based Control retrofit is saving this 2006 R&D Lab of the year winner over a million dollars annually. The presentation will also analyze the significant savings of this approach compared to and in combination with other lab energy savings approaches with a new, sophisticated lab energy analysis tool using local climate and energy costs.</i></p> <p>Mr. Sharp has over 25 years of wide-ranging entrepreneurial experience and more than 25 U.S. patents in the fields of energy efficiency and laboratory controls. As founder, former president, and CEO of Phoenix Controls, he led the development of this world leader in laboratory airflow controls that was acquired by Honeywell in 1998. In 2000, Gordon founded Aircuity, which was spun out of Honeywell and is a smart airside energy efficiency company.</p> <p>Gordon is a graduate of MIT with bachelors and masters degrees in electrical engineering. He is a member of the board of directors of I2SL (International Institute for Sustainable Laboratories), the nonprofit foundation that operates the Labs21 conference. He is also member of two important standards on ventilation: the ANSI/ AIHA Standard Z9.5 Committee on Laboratory Ventilation and the ASHRAE SSPC 170 Committee on Ventilation of Health Care Facilities.</p> </div> <div style="text-align: right; flex: 0 0 100px;">  </div> </div>
<p>2:00 PM</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>Methods to Ensure Performance and Energy Savings Using Filtered Fume Hoods Thomas C. Smith, President; Exposure Control Technologies</p> <p>The application and capabilities of filtered fume hoods (ductless fume hoods) have advanced significantly over the past several years. Their use is now appropriate for many laboratory environments and they offer some advantages over traditional fume hoods including reduced laboratory air supply and energy consumption. However, filtered fume hoods require application of specialized test methods to verify and ensure proper performance. Test methods based on the ASHRAE 110 "Method of Testing Performance of Fume Hoods", AFNOR and SEFA 9 standards have been developed and applied to evaluate, achieve and maintain performance. This paper describes the methods appropriate for ensuring performance of filtered fume hoods during factory acceptance tests, commissioning of newly installed hoods and routine verification tests. Application of these techniques will help ensure safety, performance and long-term energy savings.</p> <p>Mr. Smith is a leader in lab 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 BS degree in Mechanical Engineering from North Carolina State University and a MS degree in Environmental Engineering from the University of North Carolina.</p> <p>Mr. Smith is active in developing national and international standards for lab ventilation and has served as Chairman of ASHRAE TC9.10 Laboratory Systems, Vice Chairman of ANSI/ASHRAE 110 Fume Hood Testing, and is the Vice Chairman of ANSI/AIHA Z9 Standards for Ventilation and Health. Since 1985, Mr. Smith has participated in hundreds of laboratory ventilation projects and evaluated thousands of laboratory hood systems. His work has helped improve the safety of lab environments, reduced energy consumption and saved millions of dollars in operating costs.</p> </div> <div style="text-align: right; flex: 0 0 100px;">  </div> </div>
<p>3:00 PM</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>Butler University: GreenFumeHood Case Study Jim Hill , AIA LEED AP , BSA Life Structures</p> <p><i>With an aging science facility that could no longer maintain a consistent air quality level, Butler University is taking advantage of a needed renovation to explore new technologies to achieve their efficiency, sustainability and safety goals. The renovation of their Organic Chemistry Teaching Laboratories will include the installation of 27 GreenFumeHoods.</i></p> <p>Mr. Hill has 25 years of experience in the planning and design of science and research facilities. He strives to create functional layouts that incorporate the latest technology and can adapt as research evolves. Jim's experience in research facility design gives him an understanding of the technical issues involved in complex laboratory environments and their support systems, knowledge of emerging design trends and many lessons learned. He works collaboratively to create user-centered spaces that inspire discovery. Jim's clients have included Butler University, Indiana University, Purdue University, Northern Illinois University, the University of Notre Dame, Eli Lilly and Company and IU Health.</p> </div> <div style="text-align: right; flex: 0 0 100px;">  </div> </div>
<p>4:00 - 5:00 PM</p>	<p>Networking Hour - Appetizers and Drinks served</p>



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You will learn to:

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LabWize, Inc. and SAFE Labs can be GREEN Labs are 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 presentation download to will be e-mailed to registered attendees.

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