

Controlled Environment Testing Association

20th Annual Meeting



Schedule of Events

CETA 20th Annual Meeting

April 13-17, 2012 • San Diego Marriott La Jolla • San Diego, CA

Friday, April 13, 2012

1:00 pm Wally Whitt Golf Tournament

Riverwalk Golf Club

1:00 pm - 3:00 pm ESCO Technologies Update

Salon D

6:00 pm - 9:00 pm Registered Cleanroom Certifying Professional

in Sterile Compounding Facilities Examination -

Written *Salon E*

Saturday, April 14, 2012

10:00 am - 6:00 pm Registration

Ballroom Foyer

8:00 am - 10:00 am NuAire Manufacturer Update

Salon D

8:00 am - 12:00 pm CETA Board of Directors Meeting

Los Angeles/Rancho Las Palmas

10:00 am Exhibit set up

Salon E-H

10:00 am - Noon The Baker Co Manufacturer Update

Salon D

1:00 pm - 6:15 pm CETA Series: Electrical Troubleshooting

Salon D

Participating manufacturers: The Baker Company, Labconco, ThermoFisher Scientific, NuAire, ESCO

Technologies, Germfree Laboratories

Electrical Troubleshooting Schedule

1:00 pm - 1:30 pm General Presentation

 1:35 pm - 2:15 pm
 Session 1

 2:20 pm - 3:00 pm
 Session 2

 3:05 pm - 3:45 pm
 Session 3

 3:45 pm - 4:00 pm
 Break

 4:05 pm - 4:45 pm
 Session 4

 4:50 pm - 5:30 pm
 Session 5

 5:35 pm - 6:15 pm
 Session 6

7:00 pm - 9:00 pm CETA Annual Meeting Opening Reception

Fountain Court (Outside) [In case of rain Salon A-D]

Sunday, April 15, 2012

7:15 am - 1:30 pm Registration

Ballroom Foyer

7:00 am - 8:00 am Breakfast/Exhibiting

Salon E-H

8:00 am - 11:45 am CETA Annual Meeting General Session

Salon A-D unless otherwise noted

8:00 am - 8:10 am Conference Welcome

Tony McGrath, CETA 2012 Program Chair

8:10 am -8:30 am President's Address

Ken Mangis, CETA President

8:30 am -9:00 am Hepa Filter Testing Probe Set-up

Patrick Law, Hepatest, Inc

Photometer Probe size and scanning speed has had some dramatic changes in the past 15 years. This presentation takes a look at the industry standards both present as well as the recent past. Some of us were and are aware of these changes while many are not. This is a chance to get caught up and take a look at the future for scanning using a photometer.

Learning Objectives:

 What current and past industry standards say regarding scan probe size and scanning rate.

• To be current with industry standards.

· How to get involved in industry standard committees

Bill Peters, NuAire

9:15 am - 9:30 am CETA Spec Guide

Rob Peat, Chairman of CETA Spec Guide Committee

9:30 am - 9:40 am

CAG 009 Update

Kym Faylor, Azzur Laboratories, LLC

9:40 am - 10:00 am Update on the Hazardous Drug Study

Deborah Hirst, CDC/NIOSH/DART

This presentation is an update on the NIOSH project, "An Efficacy Study of HEPA Filtration for Hazardous Drugs." NIOSH guidance already exists as far as not recirculating biological safety cabinet (BSC) or compounding aseptic containment isolator (CACI) exhaust air back to pharmacy. It was developed based on well-known aerosol/vapor/filtration theory. Objective of this experiment is to attempt to gather scientific data to corroborate/refute that guidance.

Learning Objectives:

- The long-term objective of this project is to reduce occupational health effects among healthcare workers with potential occupational exposure to hazardous drugs.
- Research results will provide data to support specific recommendations for the development of engineering design, equipment selection, and operational guidance to protect potentially exposed workers from unnecessary exposure to these hazardous drugs.

Schedule of Events (continued)

10:00 am -10:30 am Break/Exhibits

Salon E-H

10:30 am -11:15 am Nanotechnology

Nanda Gudderra, M.Sc., M.S., Ph.D, Associate Vice President for Research, Northern Arizona University (Sponsored by Eagleson Institute)

11:15 am - Noon History of Certifier Instruments

Tony Caughron, TEC Services

History of Instrumentation used in the Certification of Cleanrooms, Biological Safety Cabinets and related devices incorporating HEPA Filtration. Instrumentation will include Aerosol Photometers, Penetrometers, Air Flow measuring Instruments and Smoke Pattern Testing devices during the last 30-40 years.

Learning Objectives:

History of Instrumentation used in the field and effect of the evolution of instruments on the certification

industry.

Noon - 1:00 pm Lunch

Fountain Court & Characters Lobby Bar

1:00 pm - 4:00 pm Equipment Manufacturer's Forum

(see chart at right)

4:00 pm - 5:00 pm Question review for the NSF BSC Certifier Written

Exam

Los Angeles/Rancho Las Palmas

5:00 pm - 6:00 pm NSF Steering Committee

Los Angeles/Rancho Las Palmas

6:00 pm - 9:00 pm Registered Cleanroom Certifying Professional

in Sterile Compounding Facilities Examination -

PracticalSalon D

Monday, April 16, 2012

7:15 am - 1:30 am Registration

Ballroom Foyer

7:00 am - 8:00 am Breakfast/Exhibiting

Salon E-H

8:00 am - 3:00 pm CETA Annual Meeting General Session

Salon A-D unless otherwise noted

8:00 am -8:10 am Conference Updates

Tony McGrath, 2012 AM Program Chair

8:10 am - 8:40 am Fluid Seal

Shawn Windley, Flanders. Inc

Presentation will discuss recent fluid seal material concerns in the High Purity markets and what key properties a fluid seal material must have to be resistant to the rigors of pharmaceutical, biotech, microelectronic,

nuclear, and healthcare use.

continued on next page

Equipment Manufacturer's Forum

1:00 pm Clordisys Solutions, Inc......Salon A The Baker Company...... Salon B AAF InternationalSalon C 1:30 pm Clordisys Solutions, Inc.......Salon A AAF InternationalSalon C 2:00 pm Air Techniques International...... Salon B Holland Safety EquipmentSalon C 2:30 pm ERLAB, Inc......Salon C 3:00 pm ThermoFisher Scientific 2 Salon B DRS Laboratories, IncSalon C ESCO Technologies......Salon D 3:30 pm NuAire......Salon A ThermoFisher Scientific......Salon B DRS Laboratories, IncSalon C

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Kym Faylor, Azzur Laboratories, LLC

Nicholas T. Flynn, B&V Testing Inc

Rob Peat, H.E.P.A Filter Services, Inc.

Jeff Serle, Germfree Laboratories, Inc.

Todd Urton, Agape Instruments Service, Inc

Jim Wagner, Controlled Environment Consulting

Staff

Executive Director: Felicia Kenan Boyles Membership Services: Angela Kite Event Staff: Pamela Cunningham and Valerie Hunter

Schedule of Events (continued)

Learning Objectives:

People attending should learn...

- · Characteristics of past fluid seal materials
- Common issues and causes affecting previous designs
- Characteristics of fluid seal material that should be present going forward
- Testing protocols used to determine these characteristics
- Why the industry can trust the fluid seal materials within filtration systems

8:40 am -9:10 am

A Lot of Hot Air & the Dirty Truth About Keeping You Safe in Research Laboratories

Jennifer Danieley

The presentation brings awareness and scratches the surface of what every person walking into a biological or biomedical research laboratory should know to protect themselves form laboratory hazards. The presentation is intended to offer details regarding safety but is geared to point out the wider range and depth of information that attendees may benefit from an awareness of regarding personal safety in research laboratories.

Learning Objectives:

- To raise awareness to increase safe practices.
- Offer tools and information that can aide attendees in making safer decisions for themselves when at work.

9:10 am - 9:40 am

BSL3 Commissioning: An Engineer's Perspective William Freeman , PE LEED AP BD+C,

Collaborative Engineering Solutions, Inc.

The presentation will focus on the unique aspects of BSL-3laboratories and the challenges presented to the commissioning agent. Since there are several building components that can be commissioned it is important to understand the relevant importance of each component and how they relate. The presentation will illustrate



these points with lessons learned as the design engineer for BSL-3 laboratories.

Learning Objectives:

- Understanding what makes a BSL-3 laboratory unique.
- · The role of commissioning in the certification process.
- How commissioning agents can help or hinder successful testing containment components

9:40 am - 10:05 am

Break/Exhibits

Salon E-H

10:05 am - 10:25 am History of Mel First

David Stuart, The Baker Company

10:25 am - 10:35 am Mel First Award

Jim Wagner, Controlled Environment Consulting

10:35 am - Noon

Real life use and updates to CETA applications guides for certifying sterile compounding facilities

Jim Wagner, Nick Karlowsky, Todd Urton, Nick Karlowsky

Integrated Vertical Laminar Flow PECs within cleanrooms are becoming a growing trend for newly constructed or remodeled pharmacy cleanrooms. They are popular among pharmacy personal but require special attention for cleanroom certifiers. This presentation will help to provide guidance when certifiers approach these applications.

Learning Objectives:

- Velocity and Volume Testing
- Smoke Pattern Analysis Testing
- HEPA Filter Leak Testing

Noon - 1:00 pm

Lunch

Salon E-H & Foyer

1:10 pm - 1:30 pm

Airflow Velocity Effects on Filter Efficiency

Matt Middlebrooks, Filtration Group

HEPA and ULPA filters are manufactured and tested using very stringent controls in order to ensure they provide the layer of protection required by the end-user at the rated flow. But, what happens to the filter performance if the flow is higher or lower than the "rated flow" - either intentionally or unintentionally? This presentation will provide actual filter test data under various flow situations, foundation concepts for understanding the effects, and recommendations on the determination and use of "rated flow".

Learning Objectives:

- Understand what "rated flow" means with respect to HEPA/ULPA filter performance.
- Understand how HEPA/ULPA filter performance changes when flow is higher than "rated flow".
- Understand how HEPA/ULPA filter performance changes when flow is lower than "rated flow".

Schedule of Events (continued)

1:30 pm - 2:00 pm

Case Study: Facility Decontamination with Gaseous and Liquid Chlorine Dioxide

Mark Czarneski, ClorDiSys Solutions, Inc.

The presentation will discuss a case study of a decontamination that took place in North Carolina. It consisted of decontaminating over 1 million cu ft, 2 floors of a 4 story building using a combination of gaseous and liquid chlorine dioxide. The parts of the facility was used for microbiological testing and needed to be decontaminated prior to the end of the building lease.

Learning Objectives:

- Steps necessary for a gaseous decontamination
- Requirements for a successful decontamination
- How to perform a decontamination using chlorine dioxide gas

2:00 pm - 2:30 pm

Class 3 Testing Standards

Jeff Serle, Germfree Laboratories

With the lack of a comprehensive Class III Biological Cabinet testing Standard, the presentation will compare and contrast many of the existing standards for similar equipment as a starting point for a single reference for testing this type of equipment.

Learning Objectives:

- To understand the types of tests required to certify a class III BSC
- · To be able to choose an appropriate test method
- To be able to choose an appropriate acceptance Criteria.

2:30 pm- 3:00 pm

Energy Savings

Ken Mangis

The presentation will provide an overview of energy conservation measures (ECM) applied in critical environments. ECM will be defined and examples will be described. Additionally, external factors that drive the need to identify and implement ECM will be presented. Specifically, Discharge Air Temperature reset schedule, occupancy sensors, temperature deadband, and Demand Control Ventilation ECM will be reviewed.

Learning Objectives:

- Define ECM and provide an overall awareness of different types of ECM.
- Understand the external factors influencing the need for ECM identification and delivery.
- Recognize that ECM selection and application need to be validated following delivery to realize potential ECM effectiveness and synergies.

5:00 pm

Arrive for Shuttle Service Assignment

Hotel Lobby

6:00 pm Shuttle Departs for Banquet

Front of Hotel

7:00 pm - 10:00 pm CETA Annual Banquet

Sea World (Shuttle Service Provided) 500 SeaWorld Drive, San Diego

10:00 pm Return Shuttle to Marriott

Tuesday, April 17, 2012

7:15 am - 1:30 am Registration

Ballroom Foyer

Salon E-H

8:00 am - 8:30 am General Election/Members Business Meeting

Salon A-D

8:45 am - 1:50 pm CETA Series: Pharmacy Isolators

Salon D

This series of hands on sessions with the manufacturer representatives will take each attendee through the service side of each manufacturer's isolators. From Repair to Troubleshooting but most importantly interpreting the manufacturer's certification report to build a field certification procedure utilizing CETA CAG-002. Each 60 to 90 minute session will be manufacturer specific. Manufacturers include The Baker, NuAire, ESCO Technologies and Germfree.

Manufacturers to show attendees how to:

- Set-up, balance, take airflows, leak test, set alarm and pressure parameters, and troubleshoot the most common problems with their isolators.
- Interpret factory test reports
- Utilize manufacturer provided specifications in conjunction with CETA CAG-002 to provide their customer with field certification.

Attendees to learn:

- How to field certify Isolators from each manufacturer.
- How to interpret factory test reports.
- How to use CETA CAG-002 in conjunction with the factory test report to provide field certification.
- How to balance pressures and set alarm parameters.
- Troubleshoot and repair most common problems.
- If time permits open forum discussion

Pharmacy Isolators Schedule

8:45 am - 8:55 am Overview and Instructions

9:00 am - 10:00 am Session 1 10:05 am - 11:05 am Session 2

11:10 am - 11:40 am Lunch Break (Salon E-H)

11:45 am - 12:45 pm Session 3 12:50 pm - 1:50 pm Session 4

A Special Thanks to Our Sponsors and Exhibitors

Platinum Sponsors

ESCO Technologies, Inc.

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NuAire, Inc.

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Air Techniques International

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Filtration Group Inc.

LABCONCO

TEC Services, Inc.

Bronze Sponsors

TSI Incorporated

ThermoFisher Scientific

Exhibitors

Booth 1: The Baker Company

Booth 2: Cert-Pro

Booth 3: EMLab P&K

Booth 4: TEC Services, Inc.

Booth 5: Thermo Fisher Scientific

Booth 6: Flow Sciences, Inc.

Booth 7: Filtration Group, LLC

Booth 8: ERLAB, Inc.

Booth 9: ESCO Technologies, Inc.

Booth 10: TSI, Inc.

Booth 11: Clordisys Solutions, Inc.

Booth 12: Kewaunee Scientific

Booth 13: Germfree Laboratories, Inc.

Booth 14: U.S. Micro-Solutions, Inc.

Booth 15: Air Techniques International

Booth 16: Azzur Laboratories, LLC

Booth 17: AAF International

Booth 18: DRS Laboratories, Inc.

Booth 19: NuAire, Inc.

Booth 20: American Biological Safety Association

Booth 21: Degree Controls, Inc.

Booth 22:

Booth 23: Camfil Farr, Inc.

Booth 24: Holland Safety Equipment

Booth 25: Aerobiology Laboratory Associates, Inc

Booth 26: Shortridge Instruments, Inc.

Booth 27: Eagleson Institute

Booth 28: Labconco

Booth 29:

Booth 30: Flanders Corporation

Exhibiting Times

Sunday

7:00 - 8:00 amBreak/Exhibiting 10:00 - 10:30 amBreak/Exhibiting Noon - 1:00 pmLunch/Exhibiting

Monday

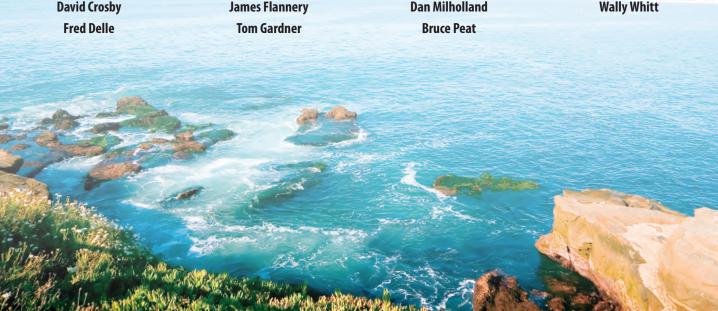
7:00 - 8:00 amBreakfast/Exhibiting 9:40 - 10:05 amBreak/Exhibiting Noon - 1:00 pmLunch/Exhibiting

CETA Charter Members

Cary Binder
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Donald Burgh
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David Lupo
Dan Milholland
Bruce Peat

William Peters Michel Regits Robert Solana James Wagner Wally Whitt



Exhibitor Descriptions

Booth 1: The Baker Company

The BioChemGARD® e3 is the quietest, most energy-efficient, total exhaust biological safety cabinet with the industry's simplest and safest filter exchange system. The ExchangeSAFE™ Sealed Access Filter Exchange System minimizes exposure to contaminants and allows faster, simpler maintenance

www.bakerco.com

Booth 2: Cert-Pro

Cert-Pro Company develops software and tools for the certification industry. Software products include ASHRAE 110 test system, Hood Certification program and Cleanroom Classifier Certification software. All software systems provide full data collection and automated reporting. Cert-Pro also offers the LPC-100 low pressure calibrator for calibrating pressure gages and transmitters.

www.cert-pro.com

Booth 3: EMLab P&K

EMLab P&K, a TestAmerica company, is one of the leading commercial IAQ laboratories in North America. EMLab P&K has over 90 service and drop-off locations throughout the United States. EMLab P&K specializes in microbial analysis including mold, bacteria, and USP <797> testing. More information about USP <797> services at www.emlabpk.com/USP_797

www.

Booth 4: TEC Services, Inc.

TEC Services was founded in 1994 and has since built a strong reputation in the controlled environment products, calibration, and service industry. TEC specializes in the production of aerosol photometers, aerosol generators, calibrations, as well as repair and service all within the field of HEPA filter testing and certification.

www.tecservicesinc.com

Booth 5: Thermo Fisher Scientific

Innovative technologies and our global commitment are what make Thermo Scientific biological safety cabinets the safest and most reliable available. Delivering world-renowned service and support, our cabinets incorporate features designed to minimize cost of operation and maximize comfort for extended use applications.

www.thermoscientific.com/bsc

Booth 6: Flow Sciences, Inc.

Flow Sciences' mission is to provide containment systems for laboratory, pilot plant and manufacturing areas. The products are designed to protect operators from exposure to hazardous particulates and vapors while performing delicate operations.

www.flowsciences.com

Booth 7: Filtration Group, LLC

Filtration Group LLC is committed to product excellence and innovative solutions. We provide a full line of high quality filtration products for the HVAC, turbine, gas phase, cleanroom, bio-safety, filter media and other air purification markets. Our extensive product line allows us to provide custom filtration solutions for a wide variety of challenging markets.

www.filtrationgroup.com

Booth 8: Erlab Inc. Asura Filters

High quality filters for less. Manufacturer of high efficiency low cost replacement filters for all brands of ductless fume hoods and chemical storage/forensic evidence cabinets. Immmediate savings and shipping availability - Convenient online shopping experience at asurafilters.com. Asura Filters are manufactured to the highest quality and safety standards at the lowest possible cost by Erlab, the world leader in ductless filtration products for the laboratory since 1968. (Erlab Group)

www.asurafilters.com

Booth 9: ESCO Technologies, Inc.

Esco will be featuring our Isoclean HPI-4P2 model. Esco Isoclean compounding aseptic Isolator models provide a safe and clean environment for compounding of non-hazardous sterile drug preparations and I've admixtures in compliance with USP 797 criteria. The positive pressure HPI models are suitable for work involving non-hazardous materials.

www.us.escoglobal.com

Booth 10: TSI, Inc

TSI Incorporated is a leading supplier of Instrumentation for Certifiers.

Products include AeroTrak™ Particle Counters, VelociCalc™ Thermal

Anemometers, DP-Calc™ Micromanometers, and EBT721 Capture Hoods that
can be used as Direct Inflow Measurement (DIM) devices for Biological Safety
Cabinets. TSI also supplies fume hood monitors and laboratory controls.

www.tsi.com

Exhibitor Descriptions (continued)

Booth 11: Clordisys Solutions, Inc.

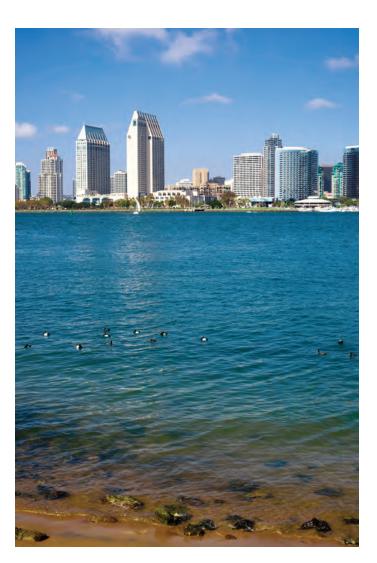
ClorDiSys supplies a broad line of products for Certifier companies for BSC, incubator, and room decontamination. We have automated and manual generators that generate chlorine dioxide gas as well as powders for a more portable method. We also lease additional equip—ment and can provide on-site support for larger decontaminations.

www.clordisys.com

Booth 12: Kewaunee Scientific

Kewaunee Scientific Corporation designs, manufacturers and installs innovative products of high quality to the laboratory furniture market. The Company's corporate headquarters and manufacturing facilities are located in Statesville, North Carolina. Kewaunee provides steel and wood casework, fume hoods, flexible systems, carts, worksurfaces, biological safety cabinets and other laboratory related products.

www.kewaunee.com



Booth 13: Germfree Laboratories, Inc.

Germfree was founded 50 years ago to bring innovative biological safety equipment to researchers. Today, Germfree is an international market leader providing cutting-edge solutions for governments, universities, research institutions and industry. Our equipment has been deployed to over 60 countries as well as outer space.

www.germfree.com

Booth 14: U.S. Micro-Solutions, Inc.

U.S Micro-Solutions, Inc. specializes in the laboratory analysis of USP 797 culturable air, contact, and finger tip plates. We provide our customers with a specialized ISO classification report that enables them to accurately identify violations of USP 797 regulations. Call 724-853-4047 or visit www.usmicrosolutions.com for more information on USP 797 testing and analysis.

www.usmicro-solutions.com

Booth 15: Air Techniques

Air Techniques International (ATI) is the global leader in testing equipment for specialized air filters and masks. Since 1961, we've enabled our customers to improve product quality, ensure worker health and safety; complying with the most stringent testing standards and regulations. ATI is the trusted resource for government, military, nuclear, and commercial industries.

www.ATItest.com.

Booth 16: Azzur Laboratories, LLC

Azzur Laboratories provides professional analytical GXP compliant testing services for the pharmaceutical, biotechnology and cosmetic industries. Such services include: environmental monitoring testing, cleaning validations, quantification of biological indicators, microbial identification, and many others with unparalleled testing and reporting services.

www.azzurlabs.com

Booth 17: AAF International

American Air Filter introduces HELIOR® Technology and the MEGAcel® family of HEPA/ULPA filters combining extremely low pressure drop and superior durability. AAF also offers a complete line of traditional HVAC, Cleanroom, and laminar flow filters, as well as custom design, small and large lot manufacturing.

www.aafintl.com

Exhibitor Descriptions (continued)

Booth 18: DRS Laboratories, Inc.

DRS Laboratories, Inc. is the Manufacturer of the MCS (Mini Chlorine dioxide System). Having explored alternative technologies to improve quality, timeliness, and cost of performing routine BSC decontaminations, DRS Labs has produced the first affordable, and portable device; including tools, procedures, and training. We also offer Decontamination Services in conjunction w/current certification contractors or independently.

www.drslaboratories.com

Booth 19: NuAire, Inc

NuAire has been universally recognized as a leader for more than 30 years in providing laboratory professionals with reliable products such as biological safety cabinets, CO2 incubators, Laminar Airflow equipment, animal facility products, and ultra-low temperature freez—ers for the most demanding environments.

www.nuaire.com

Booth 20: American Biological Safety Association

ABSA was founded in 1984 to promote biosafety as a scientific discipline and serve the needs of biosafety professionals. ABSA's goals are to provide a professional association that represents the interests and needs of practitioners of biological safety, and to provide a forum for the timely exchange of biosafety information.

www.absa.org

Booth 21: Degree Controls, Inc.

Assurance of Safe and Proper Airflow within the BSC/Fume Hood markets is our goal. We design and manufacturing air velocity measuring sensors and alarms for Certification and Long Term Monitoring. Use our SashFLOW for automated data logging or our Rooster for Airflow Alarms to meet NSF-49

www.degreec.com

Booth 22:

Booth 23: Camfil Farr, Inc.

World leader in air filtration technology, Camfil Farr offers state-of-the-art filtration solutions for cleanrooms and high containment spaces. Camfil Farr manufactures HEPA and ULPA filters with flows as high as 600 fpm; and adsorbers for removing gaseous contaminants. Camfil Farr's highly-engineered filter housings have reset the industry standard for biocontainment systems.

www.camfilfarr.com.

Booth 24: Holland Safety Equipment

Holland Safety Equipment is the North American distributor for Temperature Electronics Ltd. TEL offers air flow alarms for fume hoods and bio-safety cabinets, room pressure alarms and VAV control products. HSE also offers smoke sources for airflow visualization and other consumables for CETA certifiers.

www.hollandsafety.com

Booth 25: Aerobiology Laboratory Associates, Inc.

Aerobiology Laboratory Associates, Inc. is an accredited microbiology laboratory focused on analyses of regulated USP <797> testing for pharmacies and microbial monitoring analyses for all your decontamination services. We offer nationwide support with laboratory locations in Atlanta, GA, Denver CO, and the Washington D.C. area. Our technical capabilities and outstanding levels of customer support allow us to provide accurate, cost effective and timely results.

www.aerobiology.net

Booth 26: Shortridge Instruments, Inc

AirData Multimeter kits include industry-standard pitot tubes, static pressure probes, tubing and two proprietary probes, which make air-balancing faster and easier. The AirFoil probe is a single-point velocity probe with a straight shaft design for easy duct insertion. The VelGrid is a 16-point, velocity-averaging grid, which is useful for exhaust hoods, cleanroom filter outlets, laminar flow workstations and large filters and coils.

www.shortridge.com

Exhibitor Descriptions (continued)

Booth 27: Eagleson Institute

Celebrating twenty-three years, the Eagleson Institute is a non-profit foundation with a mission to promote the principles and practices of laboratory safety. We value the role that certifiers play in the advancement of a safe work environment and look forward to supporting the industry's future training needs.

www.eagleson.org

Booth 28: Labconco

From biosafety cabinets to fume hood, Labconco protects your laboratory environment. We will be sending the XPert Nano Enclosure to this show.

www.labconco.com

Booth 29:

Booth 30: Flanders Corporation

Flanders provides the most complete line of filtration products available, specializing in high efficiency air filtration products. We design, manufacture and market the highest quality filter and containment filtration systems necessary to filter and contain dangerous airborne contaminants for the medical, biological and pharmaceutical industry. Flanders is Foremost in Air Filtration.

www.flanderscorp.com



Past Presidents

Jim Wagner	Mark Spence
1992-1994	2003-2004
Michael Feinstein	Chris Rowe
1994-1995	2004-2005
David Brande	Jim Wagner
1995-1997	2005-2006
Dave Lupo	Gene Klingbeil
1997-1998	2006-2007
Wally Whitt	Carl LaBella
1998-1999	2007-2008
Jim Easley	William Peters
1999-2000	2008-2009
Rene Soetens	Jeff Smith
2000-2001	2009-2010
David Phillips	Marc DuBois
2001-2002	2010-2011
Steven Feinstein	Ken Mangis
2002-2003	2011-2012

Mel First Award Recipients

Professor Melvin First (CETA President's Award) 2008 George Cadwell 2009 David W. Crosby 2011



Speaker Bios

Mark Czarneski, ClorDiSys Solutions, Inc

Mark has been working in the pharmaceutical industry for over 15 years. He has been with ClorDiSys Solutions, Inc. since 2001 as Director of Technology directing the design, commercialization and manufacturing of various decontaminating and sterilization equipment for the pharmaceutical, life science and food industry. Prior to ClorDiSys Solutions, Inc. Mark worked for Johnson and Johnson providing engineering design and installation support for sterilization and decontamination equipment. He has additional experience in the design and building of industrial equipment for various industries.

Education degrees include a bachelor's degree from New Jersey Institute of Technology in Electrical Engineering Technology (1990) and masters in Engineering Management (1991).

Jennifer E. Danieley

Johns Hopkins University. Jennifer has a background in biological safety for biological defense and public health. She was an inaugeral Fellow in the National Biosafety Biocontainment Training Program at NIH, has worked for Midwest Research Institute as a Staff Scientist as well as for the Henry Jackson Foundation as the Safety Manager for the US Military HIV Research Program before becoming a Commission Corps Officer in the US Public Health Service. Jennifer currently serves as a Lieutentant Commander in the US Public Health Service working at the FDA Headquarters in Medical Device Compliance. Jennifer is here today representing herself and offering information based on experiences and knowledge gained in her previous career in biological safety.

William Freeman, PE LEED AP BD+C, Collaborative Engineering Solutions, Inc.

William (Bill) Freeman is President of Collaborative Engineering Solutions Inc. in Marietta, Georgia. Since 1981, Bill has been involved with hundreds of projects, including almost 100 science and technology projects, across the United States, Western Europe and Australia. These projects include major containment facilities (BSL-3, BSL-3, BSL-3AG and BSL-4) for the CDC and NIH, projects for major academic institutions and for commercial clients.

Bill has authored numerous articles regarding containment and science & technology engineering. These articles have focused on simplifying the mystique of engineering systems by explaining principles applicable across multiple project types and challenges. His speaking engagement include the CDC International Symposium, Tradelines, ASHRAE, ABSA, local ABSA affiliates and is a regular instructor for the Eagleson Institute's BSL-3 Design and Laboratory HVAC Design classes.

Bill is a registered professional engineer in Georgia and numerous other states and is accredited as a LEED BD+C by the US Green Building Council. He maintains membership in ASHRAE, ABSA, SEBSA and CETA. He is also a proud graduate from The Pennsylvania State University with a degree in Architectural Engineering.

Deborah Hirst, PhD, CDC/NIOSH/DART

Deborah V. Hirst, PhD, is an environmental health engineer with NIOSH, part of the Centers for Disease Control and Prevention. She is a Lieutenant Commander in the U.S. Public Health Service. Dr. Hirst received a Bachelor of Science degree in civil and environmental engineering and a doctorate in environmental health engineering from the University of Alabama at Birmingham. Since joining NIOSH in 2007, Dr. Hirst has researched and evaluated engineering control technology to reduce workers' exposures to occupational safety and health hazards.

Nanda Gudderra, MSc, MS, PhD, Associate Vice President for Research, Northern Arizona University

Dr. Nanda Gudderra received his undergraduate (arts and sciences, genetics and breeding, invertebrate microbiology) and master's training (plant stress physiology) from University of Agricultural Sciences, India. After moving to the US, he pursued additional master's training in agriculture and plant biotechnology from Northwest Missouri State University, and then obtained his doctoral degree (specializing in medical entomology/protein biochemistry and biotechnology) from North Carolina State University. At the National Institute of Allergy and Infectious Diseases (NIAID) Dr. Gudderra worked on the elucidation of structure-function activities of novel anticoagulants and host-parasite interactions. In transitioning to a compliance career in biodefense, Dr. Gudderra obtained formal training and national certification in biosafety, biocontainment and biosecurity at the NIH Division of Occupational Health, where he was the first scientist to be trained formally both in basic research and applied biosafety. While at the NIH, Dr. Gudderra also conducted research on nanoparticle characterization and safety; he is a nationally-recognized expert in nanotechnology. He has extensive experience in BSL2/BSL3/BSL4 laboratory design, construction, program development and management and was instrumental in the development of the Regional Biocontainment Laboratory at George Mason University. Most recently, Dr. Gudderra worked as a peer review scientist for DoD sponsored biomedical research programs in cancer and other metabolic diseases. He has presented a variety of topics at national and international scientific meetings and served on various professional societies, working groups, task forces, panels, and committees. Dr. Gudderra enjoys fitness and yoga and has played racquetball professionally. He has two beautiful children and a supportive wife, who is trained in education and program development.

Speaker Bios (continued)

Nick Karlowsky, Filtech, Inc.

Nick is a NSF listed technician and is currently Testing Division Manager at Filtech, Inc. He received his Bachelors of Science from California University of Pennsylvania in 2004. His duties include quality control of processes within testing of cleanrooms and biological safety cabinets. He is also an active voting member of IEST-RP-CC-006 "Testing Cleanrooms."

Patrick Law, HEPATEST, Inc

Involved with Cleanroom Certification for over 25 years. Has been a part of the NEBB Cleanroom committee for more than 15 years developing and implementing training programs standards and exams. Has tested hundreds of individuals during a hands on leak test exam.

Ken Mangis, El MBA, Controlled Environmental Systems, Inc.

Ken Mangis, El MBA is an application engineer at Controlled Environmental Systems, Inc. As an application engineer, Ken specializes in design and application of HVAC products for the controlled Environment. Prior to CESi, Ken was a Facility Manager at the Corporate Research Campus of Eli Lilly and Company where he was responsible for a \$7 million capital budget and \$20 million operating budget annually. Also at Lilly, Ken was a building manager for an oral solid dosage plant where he gained GMP manufacturing experience. Additionally, Ken has worked as a manufacturing process engineer at Ford and Toyota. He obtained a BS degree in mechanical engineering from Rose-Hulman Institute of Technology in Terre Haute, Indiana. He is registered as an engineer intern in Indiana and obtained his MBA from Xavier University in Cincinnati, Ohio. He is a member of the International Society for Pharmaceutical Engineering (ISPE) and is a member of the Controlled Environment Testing Association (CETA). Ken has been serving as a member of the Board of Directors for CETA since 2008 and is currently President.



Matt Middlebrooks, Filtration Group, LLC

Matt Middlebrooks is a Senior Product Development Engineer with Filtration Group. He has a Masters in Chemical Engineering from Clemson University and has 28 years of experience in process and product development — 14 of which have been devoted to air filtration of particles and gases in both the HVAC and respirator industries. He is currently the Chair of ASHRAE TC 2.03 (Gaseous Air Contaminants/Removal Equipment) and has made numerous presentations, seminars, and tutorials for INDA, ASHRAE, IEST, NAFA, and other groups.

Jeff Serle, Germfree Laboratories

Jeff Serle is the Senior Vice President and General Manager of Germfree Laboratories Inc. He primarily oversee the Engineering and Manufacturing for Germfree. Jeff has a degree in mechanical engineering from Florida International University and has been involved with the design and construction of biosafety equipment and Mobile BSL 3 Laboratories for the past 22 years.

Prof. David Stuart, PhD

Dr. Stuart earned the PhD in Microbiology at the University of New Hampshire and then served as Professor of Microbiology at Montana State University for 11 years. For 28 years, he was The Baker Company's Microbiologist. During this time he engaged in research on the design, testing and performance of primary containment and clean air equipment. He has authored more than 40 presentations, papers and chapters in this field. He has been a contributor to the recent editions of the ASM *Biological Safety: Principles and Practices*, and guest editor of the 5th edition of the CDC/NIH "BMBL". He has served as an instructor at the Eagleson Institute since 1989 and has been accredited by NSF International as a Biosafety Cabinet Field Certifier since 1993. He has served on numerous committees for NSF International, ABSA and NIOSH. He is recipient of the ABSA 2005 Arnold G. Wedum Distinguished Achievement Award.

Todd Urton, Agape Instruments

Todd Urton is the Quality Assurance Manager for Agape Instruments Service, Inc. and has been involved in the testing and certification industry for 15 years. He is currently a CETA "Registered Cleanroom Certification Professional-Sterile Compounding" and is accredited by NSF International as a Biosafety Cabinet Field Certifier.

Todd is the primary instructor for the Agape Institute's "Advanced Biosafety Cabinet Training Class"

Todd is an active member of the International Society of Pharmaceutical Engineers, Controlled Environment Testing Association, and the Institute of Environmental Sciences and Technologies where he is currently a voting member on various contamination control recommended practices.

Speaker Bios (continued)

Shawn Windley

Shawn Windley has served the air filtration industry for over 16 years. He began with Flanders at age 16 as a mechanical draftsman. Over his 16 year tenure in the business he has served in various capacities such as Draftsman, Designer, Lead Designer, Project Engineer, Lead Engineer, R&D Engineer, Engineering Manager, Production Manager, CNC Metal Programmer, Director of Engineering, Director of R&D, and Director of High Purity Products.

Shawn graduated from East Carolina University in 2002 with a BS in Industrial Technology with a concentration in Industrial Design/Engineering.

Shawn also has a certificate in ISO 14644 testing through IEST. Shawn has presented several technical papers and reports at Furman University, National Air Filtration Association Technical and Annual Conferences, 2011 ISPE Annual Conference, and INDA Filtration 2010 and 2011. Shawn currently is actively involved in IEST, ASHRAE, ABSA, CETA, and currently serves on the HVAC COP Steering Committee for ISPE. Shawn will be sworn in May 2012 as the Executive Vice President of Education for IEST.

He was the 2007 recipient of the Al Lieberman Mentoring Award through IEST and hold a certificate in ISO testing through the same organization in 2006.



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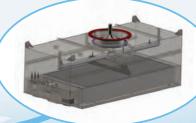
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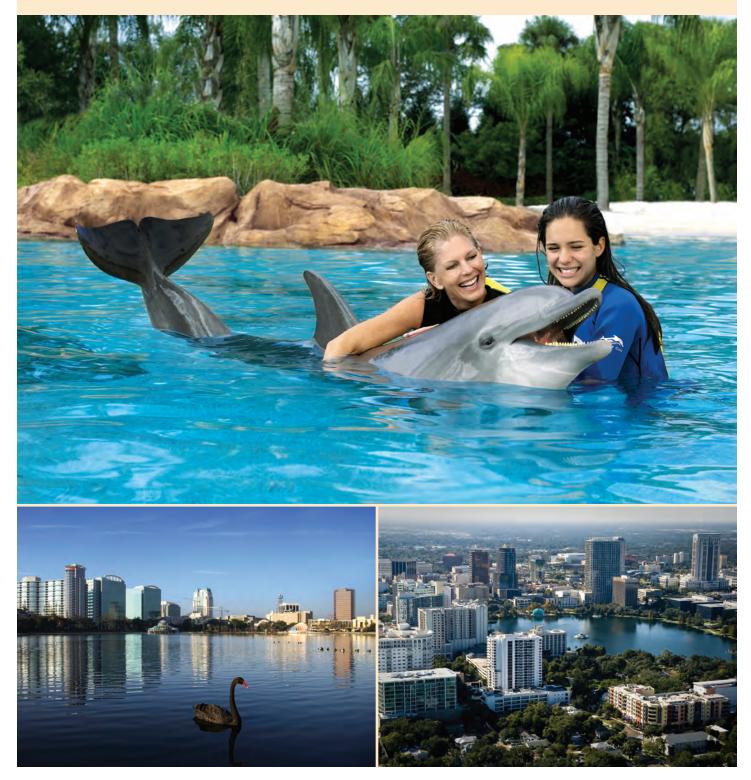




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