

FINAL PROGRAM

Controlled Environment Testing Association

19th Annual Meeting

April 15-19, 2011

San Destin Grande Golf & Beach Resort
Destin, FL



Schedule of Events

Friday, April 15

1:00 – 3:00 pm	Esco Manufacturer Update <i>MAGNOLIA BALLROOM F</i>
1:00 pm	Wally Whitt Golf Tournament <i>The Links Course</i>
3:00 – 5:00 pm	Labconco Manufacturer Update <i>MAGNOLIA BALLROOM F</i>
6:00 – 9:00 pm	CETA Certification Written Examination <i>JASMINE ROOM</i> (For examinees who will take Parts I and II during this exam period)

Saturday, April 16

10:00 am	Registration <i>MAGNOLIA REGISTRATION DESK</i>
8:00 – 10:00 am	The Baker Company Manufacturer Update <i>MAGNOLIA BALLROOM F</i>
10:00 am	Exhibit Setup Begins <i>MAGNOLIA FOYER & CORRIDOR</i>
10:00 am – Noon	Filtration Group Manufacturer Update <i>MAGNOLIA BALLROOM F</i>

1:00 – 5:00 pm

CETA Series: ISO 14644-1

CAMELLIA BALLROOM I & II

Daniel J. Dennison, NNE Pharmaplan US, Inc.

Testing Cleanrooms to current standards and regulations has become a nightmare for some certifiers and users alike.

With the influx of the ISO Standards, the existing Recommended Practices and NEBB Procedural Manual there are some conflicting requirements in certifying a cleanroom or clean zone. This presentation will cover the methods found in the ISO 14644 series with comparisons to FDA requirements and EMEA requirements and what is actually need to state the cleanroom is certified.

Learning Objectives:

- Describe the tests and discuss their functionality when applying standards at a facility
- Be familiar with what is and what is not important for determining the proper performance of a Cleanroom
- Understand the difference between the ISO standards, FDA and EMEA non-viable particulate testing
- Understanding best practices for accurate reporting

7:00 – 9:00 pm

CETA Annual Meeting Opening Reception

Sponsored by NuAire, Inc.

BAYTOWNE MARINA

(in case of rain: AZALEA BALLROOM)

Sunday, April 17

7:15 am – 1:30 pm	Registration <i>MAGNOLIA REGISTRATION DESK</i>
7:00 – 8:00 am	Breakfast/Exhibiting <i>MAGNOLIA FOYER & CORRIDOR</i>
8:00 – 11:45 am	CETA Annual Meeting General Session <i>MAGNOLIA BALLROOM E & F</i> <i>(unless otherwise noted)</i>
8:00 – 8:10 am	Conference Welcome <i>Ken Mangis, CETA 2011 Program Chair</i>
8:10 – 8:30 am	President's Address <i>Marc DuBois, CETA President</i>
8:30 – 8:45 am	ANSI/AIHA Z9 Ventilation Systems-BSL3 <i>Marc DuBois, CETA President</i>



Schedule of Events



Equipment Manufacturer's Forum

1:00 pm

Filtration Group	Magnolia A
CamFil Farr.....	Magnolia B
Germfree Labs.....	Magnolia C
Labconco	Magnolia D

1:30 pm

DRS Laboratories, Inc.	Magnolia A
CamFil Farr.....	Magnolia B
TSI, Inc.....	Magnolia C
Labconco	Magnolia D

2:00 pm

DRS Laboratories, Inc.	Magnolia A
Particle Measuring Systems	Magnolia B
ESCO Technologies, Inc.	Magnolia C
Clordisys Solutions, Inc.	Magnolia D

2:30 pm

Thermo Fisher Scientific.....	Magnolia A
Particle Measuring Systems	Magnolia B
ESCO Technologies, Inc.....	Magnolia C
Clordisys Solutions, Inc.....	Magnolia D

3:00 pm

Thermo Fisher Scientific.....	Magnolia A
NuAire.....	Magnolia B
Holland Safety Equipment	Magnolia C
AAF International.....	Magnolia D

3:30 pm

CertPro.....	Magnolia A
NuAire.....	Magnolia B
Holland Safety Equipment	Magnolia C
AAF International.....	Magnolia D

8:45 – 9:00 am CETA Spec Guide Update
Rob Peat, Chairman of CETA Spec Guide Committee

9:00 – 9:10 am Non-Traditional Fume Hoods
Chandler Papas, C-Scan, Inc.

9:10 – 9:40 am USP 797 Regulatory Details
Stephen E. Melvin, Pharm.D, BCPS
 This session will review the Board of Pharmacy regulations that have been impacted by USP 797.
Learning Objectives:

- The participant will be able to state the specific Board of Pharmacy regulation that deals with USP 797.
- The participant will be able to know the requirements of USP 797 as they relate to the practice of Pharmacy

9:40 – 9:50 am CETA Certification Update
Jeff Serle, Chair of CETA National Board of Testing

9:50 – 10:15 am Break/Exhibits
MAGNOLIA FOYER & CORRIDOR

10:15 – 10:45 am History of the Industry and Containment Equipment
Keith Landy, Germfree Laboratories

10:45 – 11:15 am History of HEPA Filters
Dave Crosby, Air Techniques International (ATI), Inc.

11:15 – 11:30 am Mel First Award
Ken Mangis, 2011 Program Chair

11:30 – 11:45 am NSF 49 Revisions
Bill Peters, NuAire, Inc

Noon – 1:00 pm Lunch
Sponsored by Shortridge Instruments, Inc.
CAMELLIA BALLROOM I & II

1:00 – 4:00 pm Equipment Manufacturer's Forum
(see schedule at right)

4:00 – 5:00 pm NSF Steering Committee
MAGNOLIA BALLROOM E & F
Maren Roush, NSF

(continued on next page)

Schedule of Events

Monday, April 18

7:15 am – 1:30 pm	Registration MAGNOLIA REGISTRATION DESK
7:00 – 8:00 am	Breakfast/Exhibiting Foyer
8:00 – Noon	CETA Annual Meeting General Session MAGNOLIA BALLROOM E & F
8:00 – 8:10 am	Conference Updates Ken Mangis, CETA President-elect
8:10 – 9:00 am	Laboratory Design Paul Langevin, P.Eng, Sr. Vice-President, Merrick Canada ULC
9:00 – 9:20 am	CAG Overview and Evolution Jim Wagner, Controlled Environment Consulting
9:20 – 10:00 am	Nuclear Pharmacy Eric Kastango, MBA, RPh, FASHP, Clinical IQ, LLC
10:00 – 10:30 am	Break/Exhibits MAGNOLIA FOYER & CORRIDOR
10:30 – 11:00 am	USP 797 Q&A Jim Wagner, Controlled Environment Consulting Eric Kastango, MBA, RPh, FASHP, Clinical IQ, LLC
11:00 – 11:30 am	Lab Manifold Exhaust Systems Mark Kehoe, Johnson Controls, Inc.

11:30 am – Noon	User Requirements/Design and Commissioning BSL Barbara Fox Nellis, SM(NRCM), RPB, CBSP, Barb Nellis Consulting
Noon – 1:00 pm	Lunch MAGNOLIA BALLROOM A & B
1:00 – 5:00 pm	CETA Series – Bag-in and Bag-out Class 3 Glove Boxes Moderator: Nick Karlowsky, Filtech, Inc. Bag-In and Bag-Out containment devices play a critical role in a number of industries. This series will help familiarize and educate certifying professionals how they are constructed and tested at the manufacturer, how they have evolved, in-place field testing, filter changing, and risk assessment.
6:00 pm	CETA Annual Awards Banquet MAGNOLIA BALLROOM ABC

Tuesday, April 13

7:15 am – 1:30 pm	Registration MAGNOLIA REGISTRATION DESK
7:00 – 8:00 am	Breakfast/Exhibiting Foyer
8:00 – 11:45 am	CETA Annual Meeting General Session MAGNOLIA BALLROOM E & F
8:00 – 8:10 am	Conference Updates Ken Mangis, CETA President-elect
8:10 – 9:00 am	ISO14644 Revisions 1 and 2 David Brande, Cleanroom PM In 2004, ISO Technical Committee 209 established a new work order to evaluate possible changes and improvements to ISO 14644, Parts 1 and 2. The new work order charged Working Group 1 of the Committee to reconstitute the committee, with at least five participating countries, and to report back to the TC209 with recommendations for updating the documents that had been in service for five years. The process was to take a year or two, but instead went for six years. The new documents are near their final stages of acceptance and this lecture will attempt to update the members with the major changes and how they will be affected by them.



Schedule of Events

Learning Objectives:

- Understand the procedure established by ISO for revising existing standards
- Understand the objectives that Working Group 2 established to revise Parts 1 and 2
- Understand the new changes in both documents and their effect on our industry

9:00 – 9:30 am **Status 14644 part 3**

Daniel J. Dennison, NNE Pharmaplan US

9:30 – 10:00 am **EM and Sampling**

Michael Moore, C-Scan Technologies

An interactive discussion of viable sampling technique, process and methodology from the certifier's perspective. This presentation will provide an overview of a sampling plan, environmental viable testing theory, preparation and procedure, as well as, challenges involved in testing.

Learning Objectives:

Development of uniform sampling procedure, sound practices to prevent cross-contamination and a discussion of awareness and challenges to viable sampling in controlled environments.

10:00 – 10:30 am **Break/Exhibits**

West Foyer

10:30 – 11:00 am **Testing New Double Side Cabinets**

Bob Lloyd, The Baker Company, Inc.

11:00 – 11:45 am **General Election/Member Business Meeting**

11:45 pm **Adjourn**

Noon – 2:00 pm **CamFil Farr Manufacturer Update**

MAGNOLIA BALLROOM E & F

3:00 – 6:00 pm **CETA Certification Written Examination**

MAGNOLIA BALLROOM B

3:00 – 6:00 pm **CETA Certification Practical Examination**

AZALEA BALLROOM III

Mark Your Calendars!

CETA's 20th Annual Conference

April 13-17, 2012

**San Diego Marriott La Jolla
San Diego, CA**



Officers

President: Marc DuBois, C-Scan Technologies

President-Elect: Kenneth W. Mangis, Johnson Controls, Inc.

Secretary/Treasurer: Troy Tillman, TSI Incorporated

Immediate Past President: Jeff Smith, Agape Instruments Service Inc.

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David Brande, Cleanroom PM

Dave Crosby, Air Techniques International

Nicholas T. Flynn, B&V Testing Inc.

Gene Klingbeil, Filtration Group, Inc.

Carl LaBella, CSI Testing, Inc

Arthur (Tony) McGrath, The Baker Company

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

Jeff Serle, Germfree Laboratories, Inc.

Jim Wagner, Controlled Environment Consulting

Staff

Executive Director: Felicia Kenan Boyles

Membership Services: Angela Kite

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NuAire, Inc.
TSI, Inc.
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Eagleson Institute
Air Techniques International
TEC Services, Inc.
Germfree Labs
Airflotek

Exhibitors

1. Kewaunee Scientific Corporation
2. Shortridge Instruments
3. Filtration Group
4. Eagleson Institute
5. The Baker Company
6. Particle Measuring Systems
7. Air Techniques International
8. NuAire
9. CamFil Farr
10. Labconco
11. DRS Laboratories, Inc.
12. EMLab P&K, LLC
13. ESCO Technologies, Inc.
14. ESCO Technologies, Inc.
15. CertPro
16. PathCon Laboratories
17. TSI, Inc.
18. US Micro-Solutions, Inc.
19. Airflotek
20. TEC Services, Inc.
21. Aerobiology Laboratory
22. AAF International
23. Bioscience International, Inc.
24. Clordisys Solutions, Inc.
25. Germfree Labs
26. Holland Safety Equipment

Exhibiting Times

Sunday

7:00 – 8:00 am Breakfast/Exhibiting
9:50 – 10:15 am Break/Exhibiting
Noon – 1:00 pm Lunch/Exhibiting

Monday

7:00 – 8:00 am Breakfast/Exhibiting
10:00 – 10:30 am Break/Exhibiting
Noon – 1:00 pm Lunch/Exhibiting

Tuesday

7:00 – 8:00 am Breakfast/Exhibiting
10:00 – 10:30 am Break/Exhibiting

Come see us at CETA:
Manufacturer's Update,
Sunday, April 17, 2011!

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Exhibitor Descriptions

Booth 1: Kewaunee Scientific Corporation

Kewaunee Scientific designs, manufactures and installs innovative products of high quality to the laboratory market. The Company's corporate headquarters and manufacturing facilities are located in Statesville, North Carolina. The Interceptor Class II, A2 Biological Safety Cabinet is Kewaunee's latest design developed with comprehensive features enhance both safety and ergonomics.

Booth 2: 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

Booth 3: The Filtration Group

We are the largest privately held filter manufacturer in North America. We manufacture products under the Aerostar, Filtrair, Flowstar and PowerSystem brands for HVAC, cleanroom, biosafety, gas phase, turbine, paint and filter media market applications. Our commitments to quality, communication and continuous improvement has made us a filtration products leader. www.filtrationgroup.com

Booth 4: Eagleson Institute

Celebrating twenty-two 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 5: The Baker Company

Multiple energy-saving features equal significant ongoing cost savings. Continuously safe work environment with self-adjusting motor technology. Quietest operation available. Most comfortable with lowest noise and reduced heat generation. Easier, faster maintenance Industry's most durable and reliable cabinet means lower life cycle costs and years of trouble-free operation. www.bakerco.com

Booth 6: Particle Measuring Systems

The established global leader for microcontamination monitoring, providing total solutions for improved performance & FDA and EU GMP regulatory compliance. Our high sensitivity products detect and analyze particles & microbial in aerosols, liquids and gas. www.pmeasuring.com

Booth 7: Air Techniques International

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 8: NuAire

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 freezers for the most demanding environments. www.nuaire.com

Booth 9: CamFil Farr

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. Visit www.camfilfarr.com.

Booth 10: Labconco

Labconco Corporation will be bringing a Paramount Ductless Enclosure to CETA in 2011. Labconco has been building quality laboratory equipment since 1925. From biosafety cabinets to fume hood, Labconco protects your laboratory environment. www.labconco.com

Booth 11: DRS Laboratories

DRS Laboratories Inc. is a supplier of Chlorine Dioxide Decontamination Equipment. 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 12: EMLab P&K, LLC

EMLab P&K, LLC (a division of TestAmerica) www.emlabpk.com is recognized as the leading commercial IAQ testing laboratory in North America. With over 40 service/drop-off locations throughout the United States. EMLab P&K, LLC helped pioneer today's IAQ industry by developing the tools for precise data interpretation, including MoldRange™ and MoldScore™.

(continued on next page)

Exhibitor Descriptions

Booth 13: ESCO Technologies, Inc

ESCO Technologies, Inc. – Since 1978 ESCO has emerged as a leader in the development of controlled environment, laboratory and cleanroom equipment solutions. Products sold include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow benches, PCR cabinets, animal workstations, isolators, downflow booths, airshowers, incubators, ovens, and more. www.us.escoglobal.com

Booth 14: ESCO Technologies, Inc

ESCO Technologies, Inc. – Since 1978 ESCO has emerged as a leader in the development of controlled environment, laboratory and cleanroom equipment solutions. Products sold include biological safety cabinets, fume hoods, ductless fume hoods, laminar flow benches, PCR cabinets, animal workstations, isolators, downflow booths, airshowers, incubators, ovens, and more. www.us.escoglobal.com

Booth 15: CertPro

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 16: PathCon Laboratories

PathCon Laboratories offers microbiological laboratory and consulting services in indoor air quality issues. We provide custom sampling protocols, sampling media, air sampler rental, bacterial and fungal counts and identifications, and data interpretation to assist pharmaceutical compounding facilities in evaluating microbial bioburden as described in USP 797.

Booth 17: TSI Incorporated

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

Booth 18: US Micro-Solutions, Inc.

US Micro-Solutions, Inc. is a full-service Environmental Microbiology Laboratory located in Greensburg, PA. We specialize in the analysis of fungi, bacteria, and other special pathogens, such as Legionella. www.usmicro-solutions.com

Booth 19: Airflotek

We are a premier marketer of Fan/Filter Modules, HEPA/ULPA filters, Terminal Ducted Modules, Cleanroom Ceiling Systems, Cleanroom Lighting Fixtures, Softwall Cleanrooms, Air Showers, Pass-Through, HEPA Filtered Vacuums, Shoe Cleaners, Cleanroom Furniture, Laminar Flow Equipment and Cleanroom Construction. www.airflotek.com

Booth 20: 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.

Booth 21: 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.

Booth 22: American Air Filter

American Air Filter introduces the MEGAcel® family of filters incorporating our proprietary ePTFE media, HELIOR®, combining ultra-high HEPA/ULPA efficiency, extremely low pressure drop, and 8X tensile strength that is damage resistant to rough handling in transportation and installation. AAF also offers a complete line of HVAC, Cleanroom, and laminar flow filtration products. www.aafintl.com

Booth 23: Bioscience International, Inc.

The newest generation of SAS microbial air monitors, for ensuring full compliance with USP 797 guidelines, cGMP and international monitoring requirements will be displayed. Trade Show Contact Is Peter Pratt at ppratt@biosci-intl.com 301-231-7400

Booth 24: 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 equipment and can provide on-site support for larger decontaminations. www.clordisys.com

Booth 25. Germfree Labs

Germfree is introducing a new Isolator for Radio Pharmacy. The Radio Rx Isolator uses lead shielding for personnel protection from radiation. Compliant with USP <797>, Germfree's Radio Rx Isolator provides ISO 5 conditions inside, offers a timed HEPA purge in the unique bottom mounted pass-through chamber, and HEPA filtered exhaust.

Booth 26. Holland Safety Equipment

Holland Safety Equipment is the North American distributor for Temperature Electronics Ltd. TEL offers fume hood monitors and VAV fume hood control products, fresh air bleed controllers and dampers and room pressure monitors, controllers and transducers. HSE also offers three smoke sources products and various other consumables for CETA certifiers. www.hollandsaftey.com

Speaker Bios

David Brande, Lead Consultant, Cleanroom Project Management, Inc.

David Brande brings 26 years of experience in the cleanroom industry. David was the founder and President of Contamination Control Technologies, Inc., for 19 years. The company specialized in providing cleanroom and biological containment certifications, as well as international consulting services, to the pharmaceutical, medical device and biomedical research industries until purchased by nnepharmaplan in August of 2005. David left nnepharmaplan in 2007 and is now consulting under the corporate name of Cleanroom Project Management, Inc.

David is currently the Chairman of the ISO/Technical Committee 209 that oversees the eleven documents that govern cleanroom industries worldwide, known as ISO 14644 and ISO 14698.

David is a 1977 graduate from North Carolina State University with a Bachelor of Science Degree.

Daniel J. Dennison, NNE Pharmaplan

Daniel J. Dennison is currently the Regional Manager of Cleanroom Performance Testing (North America) for NNE Pharmaplan and has been involved in testing for the life sciences industry for 21 years. He is currently certified as a NEBB Cleanroom Performance Testing Professional and was accredited by NSF International as BioSafety Cabinet Field Certifier from 1996 to 2001.

Daniel is a member of the International Society of Pharmaceutical Engineers, National Environmental Balancing Bureau, Controlled Environment Testing Association, an active member and tutorial instructor of the Institute of Environmental Sciences & Technology with voting chairs on RP002, 006, 013 and 034 and US active voting delegate to ISO TC/209 working group 3 for ISO 14644 part 3.

Eric S. Kastango, President, Clinical IQ LLC

Eric received his Bachelor of Science in Pharmacy degree from the Massachusetts College of Pharmacy and Allied Health Sciences and a MBA from the University of Phoenix. He has also completed 65 hours of training in nuclear pharmacy at Purdue University and is currently working on his Six Sigma Green Belt. Since 1980, he has practiced pharmacy in a number of practice settings (including hospitals, community, and home care) in a number of different roles, including the Corporate Vice President of Pharmacy Services for Coram Healthcare Corporation. Eric has also managed a FDA-registered cGMP manufacturing operation for Baxter Healthcare Corporation.

He is an active member and Fellow of the American Society of Healthcare Pharmacists and served on the USP Sterile Compounding Committee from 2005-2010 and was recently re-elected to the 2010-2015 USP Council of Experts, Compounding Expert Committee. Eric has over 150 invited national and international professional presentations on a variety of pharmacy practice topics such as sterile product preparation, pharmacy compounding errors, and quality systems.

Mark Kehoe, Project Engineer, Johnson Controls

Mark Kehoe, Project Engineer Johnson Controls, has more than 26 years of experience in the HVAC industry, as an added bonus Mark has 3 years in Elevator maintenance and modernization, and 5 years providing over site of many HVAC and Elevator related projects at Eli Lilly.

Mark has spent 20 years directly involved with HVAC applications in Laboratory and Vivarium design, VAV control, Pneumatics, Air and Water balance, HEPA filter certification, Bio- Safety cabinet and Laminar flow hood certification and repair. Mark has notably contributed in developing a unique Vivarium preventive maintenance procedure to meet AAALAC criteria.

Mark performed a test studies on ASHRAE MERV filtration, leading to a reduction of 26% in Life cycle costs. Mark has been instrumental in applying the use of "green" elevators at Eli Lilly. Most recently, Mark has undertaken the roll of Crew Chief for his 8 and 10 year old daughter's Quarter Midgets.

Mark holds and Associates Degree from IVY Tech Community College in HVAC/Refrigeration, and a list of CEU's from: University of Wisconsin, North Carolina Industrial Ventilation Conference, IISL in Laboratory Ventilation design, and Johnson Controls.

Paul E. Langevin, Project Engineer, Merrick & Company

Mr. Langevin has been involved with the planning, design, construction, commissioning and operations of containment laboratories (BSL2-3-4) for the last 27 years.

Currently working for Merrick & Company, Mr. Langevin is the Director of Laboratory Design Services and provides design and technical leadership on many high containment projects.

Prior to Merrick, Mr. Langevin managed Biocontainment Design Services and was also the senior project manager for the Canadian Health Science Center for Human and Animal health

Mr. Langevin provides hands-on understanding of the operations of laboratories having lead commissioning and laboratory decontaminations, biological testing of effluent and carcass disposal systems and installation of containment systems

In addition to his duties at Merrick, Mr. Langevin currently provides training and consulting for biocontainment design and has served on international high containment projects.

Robert Lloyd, Engineering Manager, The Baker Company

Masters of Science degree in Mechanical Engineering from The University of New Hampshire

Nuclear Engineer, Portsmouth Naval Shipyard

President, New Hampshire Community Technical College, Portsmouth, New Hampshire

Speaker Bios

Michael Moore, C-Scan Technologies, Inc.

Michael Moore is an NSF certified technician with 3 years of field experience. In addition to being involved in the industry, Michael has been a leader in the USP797 regulations and studied the environmental sampling aspects and implications while at C-Scan Technologies. He has also participated in and passed the written aspect of the BETA CETA Cleanroom Certification series. His ongoing training includes classes attended with Baker Class II cabinet training, Thermo Forma Series cabinet training, CETA Certifier training and the Agape Advance Bio Safety Cabinet training.

Barbara Fox Nellis, SM(NRCM), RPB, CBSP

Barb Nellis Consulting has 45 years experience in EH&S specializing in High Containment of biological and chemical agents and the design and construction of high containment facilities. Over the years of full time employment, Barbara supported J&J until she retired in 1999, then on to the University of Florida and Northern Arizona University where she finally retired this January 3, 2011 to concentrate on her private consulting business. Primary responsibilities over the years included numerous containment and research facilities design and construction teams for both industries and academia as well as designing and rolling out full EH&S programs for newly formed companies. She is currently an elected council

member for ABSA and a full voting member of the new ANSI Standard Committee for BSL-3 facilities. Barbara has developed and taught many courses over the years for AIHA, ABSA, Eagleson and other associations and continues to be active and on the front line of biosafety. In her free time she enjoys her 3 grandchildren and traveling the world on cruise ships.

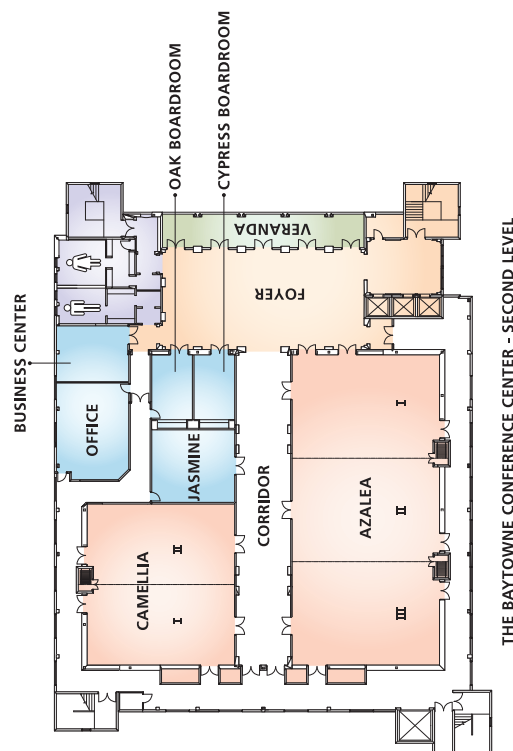
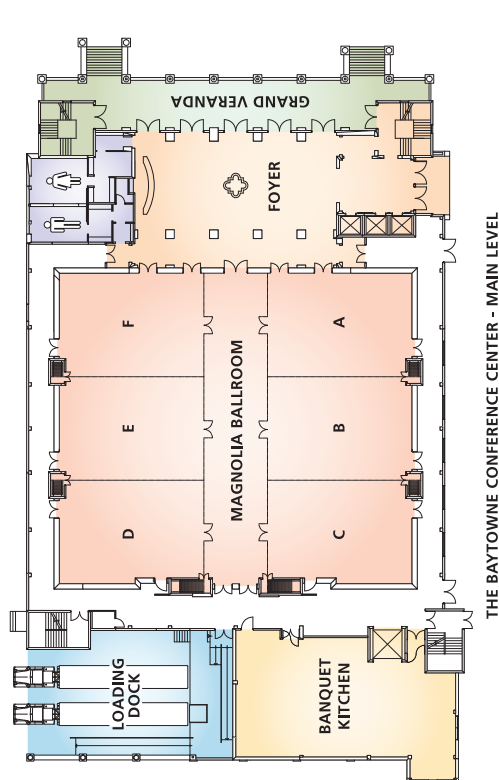
Jim Wagner

Mr. Wagner has been involved with certification and design of controlled environments since 1979. He serves on the NSF joint committee responsible for NSF standard 49 (Class II Biological Safety Cabinets), the Institute of Environmental Sciences and Technology working groups responsible for HEPA filters, laminar flow equipment, and cleanrooms, and the CETA working groups for the applications guides for certification of engineering controls used in sterile compounding.

Mr. Wagner serves on the 2005-2010 USP expert committee for sterile compounding. He has twice served as president of the Controlled Environment Testing association.

A frequent speaker at industry meetings and workshops on contamination control issues, Mr. Wagner is the primary instructor for the Eagleson Institute's "Advanced Certification" class for certification of Biological Safety Cabinets. He is a co-developer and frequent presenter at the USP/Baxa training class "Aseptic Processing and Compliance Tools for USP <797>."

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EAGLESON INSTITUTE

The Eagleson Institute is a non-profit foundation with a mission to promote the principles and practices of laboratory safety. We carry out our mission by offering seminars and conferences, producing DVDs and software, awarding scholarships, and sponsoring lectures.

NEW FOR 2011

- May 23-24 **Verifying BSL3 Performance:
From Commissioning to Certification**
- June 20-22 **Certification of Sterile Compounding Facilities**
- June 23-24 **Certification of Aseptic Isolators**

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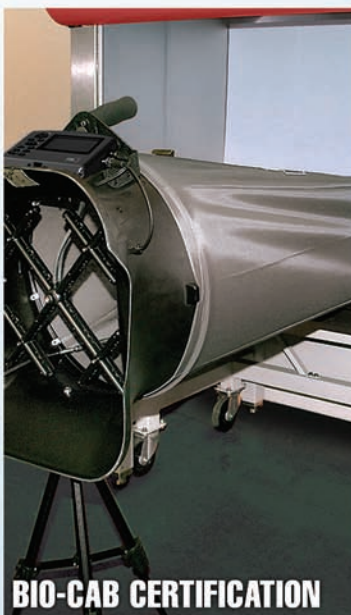
Visit TSI at CETA 2011 Booth #17



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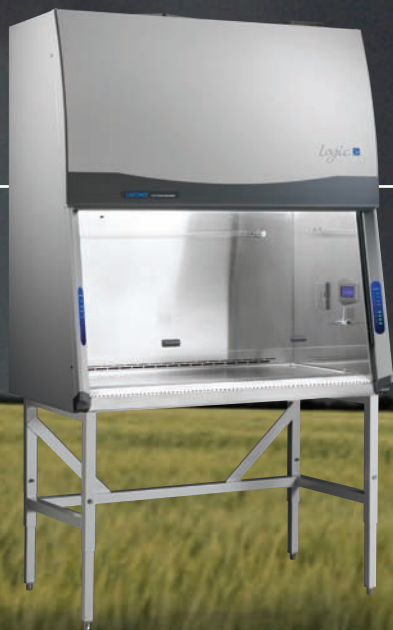
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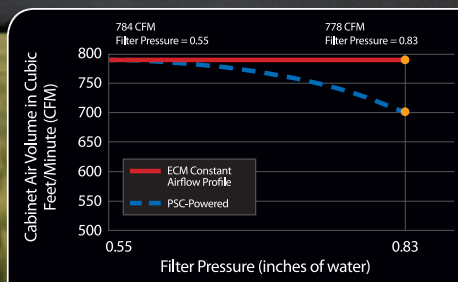


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