



Controlled Environment Testing Association

2019

ANNUAL CONFERENCE

APRIL
12-16TH

THE PEABODY HOTEL
MEMPHIS, TN!


PROGRAM
AND
EXHIBITOR
INFORMATION



2019 CETA ANNUAL MEETING AGENDA

PROGRAM	TIME	LOCATION	SPEAKER
Thursday, April 11			
CETA Board Meeting	3:00PM - 7:00PM	Cockrell Room	
Friday, April 12			
Registration	7:00AM-5:00PM	East Mezzanine	
CNBT RCP-SCF Written Practical Exam	8:00AM-12:30PM	Skyway Ballroom	David Brande / Kim Coughlin
CETA Series 1: Operational Concerns for USP 797 & 800	1:00PM-5:00PM	Venetian Ballroom Hernando Desoto Room, Louis XVI Room, Forest Room	Shawn Windley
Saturday, April 13			
Registration	7:00AM-5:00PM	North Mezzanine	
Registration (moves upstairs)	5:00PM-7:00PM	Skyway Foyer	
Platinum Sponsor Update	8:00AM-10:00AM	Venetian Ballroom	NuAire, Inc.
CNBT RCP-SCF Multiple Choice Exam and Fume Hood Accreditation Exam	8:30AM-12:00PM	Skyway Room	David Brande / Kim Coughlin
Platinum Sponsor Update	10:00AM-12:00PM	Venetian Ballroom	Esco Technologies Inc
CETA Series 2: USP Cleanrooms 201 Beyond the Basics	1:00PM-5:00PM	Louis XVI Room, Venetian Ballroom (2 sessions), Forest Room, Cleanroom in Venetian Ballroom	Cary Binder (Cleanroom)
Duck Master Presentation	5:00PM-5:30 PM	Lobby	Wayne Copeland
Exhibitor Setup	3:00PM-7:00PM	Tennessee Exhibit Hall	
Opening Reception on the Roof	7:00PM-9:00PM	Peabody Rooftop and Skyway	Special Entertainment
Sunday, April 14			
Registration	7:00AM-4:30PM	East Mezzanine	
Breakfast/Exhibits	7:00AM-8:00AM	Tennessee Exhibit Hall	
Annual Meeting General Session	8:00AM-3:00PM	Peabody Grand Ballroom A, B, & C	
Conference Welcome	8:00AM-8:10AM	Peabody Grand Ballroom A,B,& C	Shawn Windley
President's Address	8:10AM-8:25AM	Peabody Grand Ballroom A,B,& C	Wayne Copeland
Presentation: Hazardous Drug, Hide and Seek	8:25AM-9:15AM	Peabody Grand Ballroom A,B,& C	Herschell Hitchcock (ECO)
Presentation: CNBT Updates	9:15AM-9:45AM	Peabody Grand Ballroom A,B,& C	David Brande (CNBT Admin)
Presentation: USP 797 Updates	9:45AM-10:15AM	Peabody Grand Ballroom A,B,& C	Jim Wagner
Break with Exhibitors	10:15AM-10:45AM	Tennessee Exhibit Hall	
Presentation: 2018 USP 797 Proposed Revisions FAQs	10:45AM-11:30 AM	Peabody Grand Ballroom A,B,& C	Abby Roth
Presentation: Creating an Impactful Role for Certifiers	11:30AM-12:00PM	Peabody Grand Ballroom A,B,& C	Jim Wagner
Lunch	12:00PM-1:00PM	Continental Ballroom	
Presentation: HVAC Design and Considerations for Life Science Applications	1:00PM-2:00PM	Peabody Grand Ballroom A,B,& C	Doug Ebert (Eli Lilly Company)
Presentation: CAG's and You!	2:00PM-2:45PM	Peabody Grand Ballroom A,B,& C	Vijayakumar R

2019 CETA ANNUAL MEETING AGENDA

PROGRAM	TIME	LOCATION	SPEAKER
Sunday, April 14			
Presentation: NSF Updates	2:45PM-3:00PM	Peabody Grand Ballroom A,B,& C	Bill Peters, NSF
Equipment Manufacturer Forums	3:00PM-6:00PM	Venetian Ballroom, Hernando Desoto Room, Forest Room, Peabody Grand Ballroom A, B,&C	
CAG Meetings	5:00PM-7:00PM	Brinkley Room, Cockrell Room and Lansdowne Room (listen for announcements on topics for rooms)	
NSF Steering Committee	6:00PM-7:00PM	Louis XVI Room	
Monday, April 15			
Registration	7:00AM-12:00PM	East Mezzanine	
Breakfast/Exhibits	7:00AM-8:00AM	Tennessee Exhibit Hall	
CETA Annual Meeting General Session	8:00AM-11:45AM	Peabody Grand Ballroom A,B,& C	
Conference Updates	8:00AM-8:10AM	Peabody Grand Ballroom A,B,& C	Shawn Windley
Presentation: Airflow Impacts on Contamination Control, Inc.	8:10AM-9:00AM	Peabody Grand Ballroom A,B,& C	Bart Naughton, ATECS
Presentation: IOT for HVAC - The 4th Industrial Revolution	9:00AM-10:00AM	Peabody Grand Ballroom A,B,& C	Jerry McGuire (AAF Flanders)
Break with Exhibitors	10:00AM-10:20AM	Tennessee Exhibit Hall	
Presentation: Room Pressurization and Differential Pressure Lessons Learned	10:20AM-11:00AM	Peabody Grand Ballroom A,B,& C	Mike Soper (Setra Systems, Inc)
Industry Updates: CETA Spec Guide	11:00AM 11:10AM	Peabody Grand Ballroom A,B,& C	Charlie Pellegrini
Presentation: ASHRAE 110 Updates and Fume Hood Applications	11:10AM- 12:00PM	Peabody Grand Ballroom A,B,& C	Tom Smith (TCS)
Lunch	12:00PM-12:45PM	Tennessee Exhibit Hall	Boxed Lunch
Wally Whitt Memorial Golf Tournament (Boxed lunch in cart)	12:00PM-6:00PM	Tunica National Golf Club	
"I Don't Golf" Activities	1:00PM - 6:00PM	Graceland or Ziplining	
Reception	6:30PM to 7:00PM	Peabody Grand Ballroom D,E,&F 	One night only - The King!
Annual Banquet	7:30PM-10:00PM	Peabody Grand Ballroom A,B,& C	
Tuesday, April 16			
Registration	7:00AM-10:00AM	East Mezzanine	
Breakfast/Exhibits	7:00AM-8:00AM	Tennessee Exhibit Hall	
Annual Meeting General Session	8:00AM-10:00AM	Continental Ballroom	
Conference Updates	8:00AM-8:10AM	Continental Ballroom	Shawn Windley
CNBT/CAG Q&A session	8:10AM-9:00AM	Continental Ballroom	
Presentation: Testing, Balancing, and Specifying Fan Filter Units	9:00AM-9:45AM	Continental Ballroom	Aaron Stout (Air Products & Eq.)
General Election & CETA Business Meeting	9:45AM-10:00AM	Continental Ballroom	Wayne Copeland
Meeting Adjourned	10:00AM	Continental Ballroom	
Exhibitor Breakdown	10:30AM	Tennessee Exhibit Hall	
CETA Follow-up Board Meeting	11:00AM-12:00PM	Cockrell Room	

Meeting Notes:

What do the stickers on my name badge mean?

GC means you're registered for the General Meeting and can attend the Opening Banquet, and all sessions and meals beginning Sunday morning.

FCS means you have registered to attend the Friday CETA Series from 1-5 PM.

SCS means that you have registered to attend the Saturday CETA Series from 1-5 PM.

AB means that you're either an exhibitor that purchased a banquet ticket for Monday evening or a guest with tickets to the Saturday Opening reception and Monday banquet.

Exhibitors/Sponsors without "GC" or "AB" can attend all meals including the Saturday Opening Reception except for the Monday evening banquet but cannot attend sessions.

Registered Guests are welcome to attend the Saturday Opening Reception and Monday Night Banquet, but not the sessions or other meals.

**** Attendees should not record the sessions or take flash photography ****



MANUFACTURER UPDATES April 14, 2019 3:00-6:00 PM

Timing/ Room	Venetian	Hernando Desoto	Forest	Peabody Grand Ballroom, A, B, C
3:00-3:30 PM	AirCare Automation Inc.	TBS Technologies, LLC	Holland Safety Equipment	ESOP Marketplace/ PTCFO, Inc
3:30-4:00 PM	AirCare Automation Inc.	TBS Technologies, LLC	Evergreen Telemetry	TSI Inc.
4:00-4:30 PM	Esco Technologies, Inc.	NuAire Inc.	Degree Controls	Germfree Laboratories, Inc.
4:30-5:00 PM	Esco Technologies, Inc.	Steris	Degree Controls	The Baker Company
5:00-5:30 PM	Labconco	Performance Assurance Systems	AAF Flanders	The Baker Company
5:30-6:00 PM	Analytics Corp.	Performance Assurance Systems	AAF Flanders	NOT ASSIGNED

CONTROLLED ENVIRONMENT TESTING ASSOCIATION

OFFICERS

President
Wayne A. Copeland (2020)
CEPA Operations, Inc

President Elect
Shawn Windley (2022)
AAF Flanders

Secretary/Treasurer
Tony Caughron (2019)
TEC Services, Inc.

Past President
Nick Karlowsky (2019)
Filtech, Inc.

EXECUTIVE OFFICE

Controlled Environment
Testing Association (CETA)
Executive Director:
Brandi Gerew, CAE, CMP

3801 Lake Boone Trail Suite 190
Raleigh, NC 27607
Phone: (919) 792-6339
Web site: www.cetainternational.org
Email: info@cetainternational.org

DIRECTORS

Cary Binder (2019)
ENV Services Inc
Kimberly Coughlin (2021)
Clinical IQ, LLC

Kym Faylor (2019)
Azzur Labs

Leslie MacKay (2021)
Eagleson Institute

Charlie Pellegrini (2021)
Pentagon Technologies

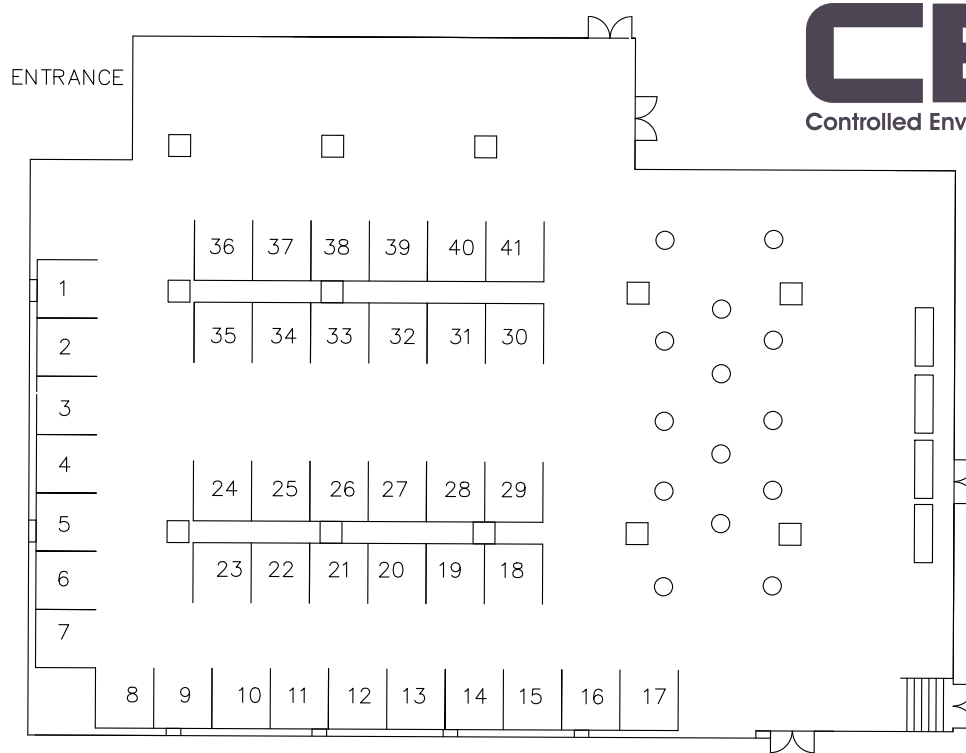
Jeff Serle (2019)
Germfree Laboratories

Todd Urton (2020)
Quality Cleanroom
Consulting

Wifi information:
Name: CETAam
Password: CETA2019

VISIT OUR EXHIBITORS AT THE ANNUAL MEETING!

Exhibitor	Booth Number	Exhibitor	Booth Number
1	Esco Technologies, Inc.	22	Flow Sciences
2	Camfil	23	APC Filtration Inc.
3	U.S. Micro-Solutions, Inc.	24	Labconco
4	DFMZ Inc.	25	EMSL Analytical, Inc.
5	ClorDiSys Solutions Inc	26	AirCare Automation Inc.
6	Analytics Corporation	27	Bioscience International, Inc.
7	Germfree Laboratories	28	ATI
8	Aerobiology Laboratory	29	Chattanooga Environmental Laboratory, LLC
9	STERIS	30	TSI
10	Degree Controls, Inc.	31	The Cleanroom Parts Guys
11	Q Laboratories	32	Holland Safety Equipment
12	Simplex Isolation Systems	33	Filtration Group
13	Evergreen Telemetry	34	CEPA Operations, Inc.
14	ABSA International	35	NuAire Inc.
15	The Baker Company	36	Eagleson Institute
16	TEC Services, Inc.	37	TBS Technologies, LLC
17	DRS Laboratories, Inc.	38	ESOPMarketplace/PTCFO, Inc
18	MilliporeSigma	39	Lakeland
19	AAF Flanders	40	FOCUS Laboratories
20	EMLab P&K	41	Performance Assurance Systems
21	NSF INTERNATIONAL		



CETA™
Controlled Environment Testing Association



THANK YOU TO OUR SPONSORS!

PLATINUM



GOLD



SILVER



OTHER SPONSORS



**We have
protection down
to a science.**



LABCONCO

VISIT OUR EXHIBITORS AT THE ANNUAL MEETING!

Booth 1: Esco Technologies, Inc. - Esco is the world leader in NSF & TÜV certified advanced biosafety cabinets, featuring energy efficient DC-ECM blower, ULPA filter with 10x better filtration than HEPA at same life, large performance envelope, anti-microbial coating, durable steel plenum, comfortable low noise, riboflavin-verified cleanability, comfortable arm rest, user-friendly and easy access controller.

Booth 2: Camfil - World leader in air filtration technology, Camfil offers state-of-the-art filtration solutions for cleanrooms and high containment spaces. Camfil manufactures HEPA and ULPA filters with flows as high as 600 fpm; and adsorbers for removing gaseous contaminants. Camfil's highly-engineered filter housings have reset the industry standard for biocontainment systems.

Booth 3 - U.S. Micro-Solutions, Inc. - We are an ISO17025 compliant Environmental Microbiology Laboratory specializing in the analysis of bacteria and fungi from indoor environments, water, medical devices, and pharmaceutical sterile compounding settings (USP797). We provide culture analysis, equipment rental, and USP media. We are committed to providing exceptional quality, outstanding customer service, and competitive prices. www.usmslab.com

Booth 4 - DFMZ Inc. - DFMZ Inc. is a leading innovator in the design, development and manufacture of quality environmental and particulate control solutions. Our equipment and cleanrooms are designed to provide a high degree of product, personnel and/or environmental protection for all branches of industry, including pharmaceutical as well as science and technology sectors. www.dfmzgroup.com

Booth 5 - ClorDiSys Solutions Inc - ClorDiSys provides chlorine dioxide gas decontamination equipment for use on BSC's, HEPA housings, Incubators, Isolators, Rooms, and other enclosures. Chlorine dioxide gas is a safer alternative to formaldehyde and our CHEM-CD process is a simple, easily portable, NSF approved replacement for the decontamination of BSCs. www.clordisys.com

Booth 6 - Analytics Corporation - Analytics Corporation provides technical support and laboratory analysis of chemo wipe samples.

Booth 7 - Germfree Laboratories - Germfree designs, engineers and manufactures laboratory equipment, hospital pharmacy equipment and turnkey mobile and modular cleanroom buildings. Germfree's Class III Biosafety Cabinets provide containment in the world's most advanced laboratories. Germfree systems have been purchased by more than 6,000 institutions and companies in the U.S. & 60 other countries worldwide. www.germfree.com

Booth 8 - Aerobiology Laboratory - Aerobiology Laboratory Associates, Inc. is an environmental laboratory focused on client support with eight laboratories across the nation. With numerous accreditations, we offer a wide range of services to help with any environmental concerns. Our expertise in building-related health issues and microbial applications allows Aerobiology to consult with professionals in all areas. Our expanded capabilities help to encompass the developing needs of our clients, while maintaining our outstanding level of quality and customer service.

Booth 9 - STERIS - STERIS vaporized hydrogen peroxide (VHP) biodecontamination systems use our patented VHP "dry process" technology and proprietary Vaprox Hydrogen Peroxide Sterilants to support biotechnology, pharmaceutical manufacturing, and related industries. The VHP sterilization equipment uses hydrogen peroxide vapor as a broad spectrum anti-microbial. It evenly distributes VHP throughout the enclosure, providing efficacy against viruses, bacteria, yeasts, and bacterial spores. This "dry process" separates STERIS from other companies because it doesn't leave potentially damaging condensation or toxic residue on surfaces. This means that STERIS VHP biodecontamination systems provide a wide range of material compatibility. The VHP X10™ Biodecontamination Unit will be on site for demonstration. Uses hydrogen peroxide vapor as a broad-spectrum antimicrobial for fast, economical biodecontamination of biological safety cabinets without leaving a residue on surfaces. Check out: https://www.sterislifesciences.com/sitecore/content/sites/lifesciences_com/home/products/equipment/vhp-sterilization-and-biodecontamination.aspx

Booth 10 - Degree Controls, Inc. - Degree Controls, a leading airflow safety and alarm manufacturer, provides standard and custom controls for the critical containment industry. With application support to retrofit existing laboratories, degreeC works hand-in-hand with certification companies providing optimal configurations/connectivity. The Rooster™ series provides auto-sash, set-back, and auxiliary fan/valve control, using a simple touch-screen interface. www.degreec.com

Booth 11 - Q Laboratories - Q Laboratories has served the food, cosmetic, pharmaceutical, health and beauty care, medical device, and dietary supplement industries since 1966, offering microbiology, analytical chemistry, and R&D laboratory services. An independent laboratory, combining the latest technology with personal service and attention, Q Laboratories can meet all of your testing and quality assurance needs. www.QLaboratories.com

Booth 12 - Simplex Isolation Systems - Simplex Isolation Systems is one of the most prominent names in modular cleanrooms, softwall curtains, strip doors, separation and process isolation. Since 1979 our innovations have set new standards in modular, expandable cleanroom

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components, industrial enclosures, isolation curtains, hardware and new product development.

www.simplex.is

Booth 13 - Evergreen Telemetry - Advanced air balance instruments for measuring airflow (including DIM), velocity, pressure, temperature, and humidity.

Booth 14 - ABSA International - ABSA International promotes biosafety to serve the growing needs of biosafety professionals internationally. ABSA's core purpose is to promote and expand biosafety expertise through training, laboratory accreditation, publications, networking, biosafety resources, advocacy, annual biosafety conference, and professional credentials. Visit www.absa.org

Booth 15- The Baker Company - For 7 decades, The Baker Company has been at the forefront of engineering, testing and production of reliable laboratory contamination control equipment. Our products are built to order, with rigorous testing protocols and quality control measures that exceed industry standards. Our commitment ensures you – and your budget – will be pleased.

Booth 16 - 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 17 - DRS Laboratories, Inc. - DRS Laboratories 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 with current certification contractors or independently.

Booth 18 - MilliporeSigma - MilliporeSigma is the U.S. life science business of Merck KGaA, Darmstadt, Germany. With 19,000 employees and 72 manufacturing sites worldwide, MilliporeSigma's portfolio spans more than 300,000 products enabling scientific discovery. MilliporeSigma has customers in life science companies, university and government institutions, hospitals and industry. More than 1 million scientists and technologists use its products. The company is committed to solving the toughest problems in life science by collaborating with the global scientific community. For more information, visit www.emdmillipore.com and www.sigma-aldrich.com

Booth 19 - AAF Flanders - AAF Flanders is a world leader in air filtration products and understands the critical requirements of the biosafety industry. AAF is pleased to announce the availability of PAO compatible eFRM HEPA filters, along with our ability to provide glass media HEPA filters, and Hi Temp HEPA filters. www.AAFintl.com

Booth 20 - EMLab P&K - EMLab P&K is the leading provider of USP<797> testing for environmental monitoring of sterile compounding areas. Top-tier USP<797> compliance companies trust EMLab P&K for technical expertise and lab testing capabilities necessary to meet the challenge of implementing a rigorous USP<797> program. <https://www.emlab.com/>

Booth 21 - NSF International, Ann Arbor, MI - NSF tests and certifies Class II biosafety cabinets to NSF/ANSI 49 – the authoritative standard for biosafety cabinets that are designed to provide personnel, product, and cross-contamination protection. NSF offers two personnel accreditation programs that evaluate the proficiency of individuals who perform routine field certification of biosafety cabinets. www.nsf.org

Booth 22 - Flow Sciences - Our Highest Quality Ensures Your Excellent Results. Safety and performance are of the utmost importance, as the pharmaceutical industry and others rely on proper engineering controls to develop and produce consistent products and results, while keeping their personnel and/or product safe. At Flow Sciences, we pride ourselves in the ability to engineer solutions that contain applications properly while creating consistent results.

Booth 23 - APC Filtration Inc. - APC Filtration Inc is an ISO9001:2015 certified manufacturer providing over 37 years of experience in custom designed high-purity air filters for global OEMs of industrial, commercial and domestic appliances and equipment. www.apcfilters.com

Booth 24 - Labconco Corporation - Serving the scientific community since 1925, Labconco Corporation manufactures laboratory equipment, specializing in ventilation products such as chemical fume hoods and biological safety cabinets. Manufactured in Kansas City, Missouri and Fort Scott, Kansas, Labconco products are marketed worldwide to academic, industrial, life science, pharmaceutical, environmental, forensic and clinical laboratories.

Booth 25 - EMSL Analytical, Inc. - EMSL Analytical, Inc. is a nationally recognized Microbiology and Indoor Air Quality Testing Laboratory specializing in Legionella analysis, USP<797> and the identification of Fungi, Bacteria and Healthcare-Associated Infection (HAI) Pathogens. We operate 46 laboratory locations across North America. For more information, please visit www.EMSL.com or call **800-220-3675**

VISIT OUR EXHIBITORS AT THE ANNUAL MEETING!

Booth 26 - AirCare Automation Inc. - Cleanroom Monitoring and Reporting for USP797 and USP800 Compounding Pharmacies.

Booth 27 - 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.

Booth 28 - ATI - Since 1961, ATI has been the leading designer and manufacturer of specialized test equipment for high efficiency particulate air (HEPA) filters, flat sheet media, filter cartridges and respirators used by government, military, and commercial organizations worldwide. Today ATI continues to be an innovator, delivering new technologies in CBRNE Detection, including biological threat detection and military respirator mask testing. www.atittest.com

Booth 29 - Chattanooga Environmental Laboratory, LLC - Chattanooga Environmental Laboratory, LLC is an accredited testing laboratory, specializing in USP 797 testing of viable air, contact, and gloved fingertip samples. CEL is the leading U.S. distributor of the MicroBio Air Sampler. The MB offers a light-weight design with a sampling rate of 180 L/min at a competitive price. For more information, please visit www.ChattaLab.com

Booth 30 - TSI - TSI Incorporated is a leading supplier of instrumentation for certifiers. TSI's AeroTrak™ Particle Counters, VelociCalc™ Thermal Anemometers, DP-Calc™ Micromanometers, AirPro® Air Velocity Instruments, and EBT731 Capture Hoods can be used as Direct Inflow Measurement (DIM) devices for biological safety cabinets. TSI also supplies hospital isolation room monitors and laboratory controls. www.tsi.com

Booth 31 - The Cleanroom Parts Guys - We are small design manufacturing company offering PAO Test Ports and Delivery Solutions for all HEPA Filter Testing. www.thecleanroompartsguys.com

Booth 32 - Holland Safety Equipment - Holland Safety Equipment is the North American distributor for Temperature Electronics Ltd.'s fume hood and bio-safety cabinet airflow monitors on an OEM, reseller and end user basis. HSE also offers room pressure monitoring and data logging devices and smoke sources for airflow visualization. CETA members qualify for discount pricing. www.hollandsafety.com

Booth 33 - Filtration Group - Filtration Group is committed to product excellence, innovative solutions and customer service for leading Biosafety Cabinet manufacturers. Utilizing our proprietary technology Filtration Group custom engineers filter designs to meet the stringent performance requirements of the market. Filtration Group is the foremost source for Biosafety Cabinet Manufacturers, and dedicated to making the world Safer, Healthier and More Productive. hvac.filtrationgroup.com

Booth 34 - CEPA Operations, Inc. - CEPA Operations, Inc. Test and certification of HEPA filtered equipment. Aerosol Injection Port sales.

Booth 35 - NuAire Inc. - For 40 years, NuAire has been universally recognized as the leader in providing laboratory professionals with reliable products for the most demanding environments such as BioSafety Cabinets, CO2 incubators, Laminar Airflow Equipment, Ultra-low Temperature Freezers, Centrifuges, Animal Vivarium Equipment, Custom Containment Equipment and more. www.nuaire.com

Booth 36 - Eagleson Institute - The Eagleson Institute is a non-profit foundation with a mission to globally promote the principles and practices of health and safety in the life sciences community. Our highly interactive classes cover a wide range of biosafety topics including BSC certification, BSL3 laboratory performance verification and certification of sterile compounding facilities.

Booth 37 - TBS Technologies, LLC - TBS Technologies offers the TBS-1080, a uniquely easy-to-use and highly portable chlorine Dioxide (CD) gas generation system. At 12 lbs and 1 cubic foot, the TBS-1080 easily fits inside a BSC. Operation is simple, and user-friendly. See a brief video at our website: tbstechnologies.com, and come by our booth to see how the TBS-1080 works

Booth 38 - ESOPMarketplace/PTCFO, Inc - We are Advisors who specialize in Ownership and Management Succession for privately held, family-owned businesses

Booth 39 - Lakeland - Lakeland's CleanMax is single- use Clean Manufactured Cleanroom Apparel made with high quality fabric and design that is suitable for use in ISO Class 4 through 8 cleanrooms. Available in both sterile and nonsterile configurations. Stop by our booth to learn more!

Booth 40 - FOCUS Laboratories - FOCUS Laboratories is the full service microbiology laboratory with a FOCUS on customer service. FOCUS is FDA registered, cGMP compliant and ISO 17025:2017 accredited. Industry leading turn around times (<10 days), sterling compliance record (no 483's) and technical expertise (genetic ID, failure investigations). Our FOCUS is lab work, we don't certify.

Booth 41 - Performance Assurance Systems - PASport aerosol injection port system is the only Patented closed system product on the market with both a challenge port and a verification port. PASport significantly make the job of a certifier easier and quicker. No more penetrating ceilings. In addition it makes your clients happier because they become productive 75% quicker. www.getPASport.com



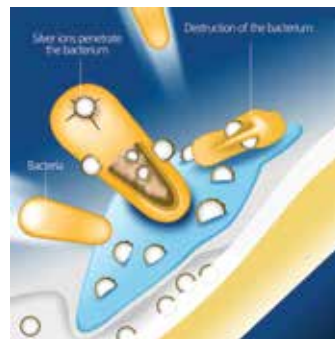
Easy to Use Controller



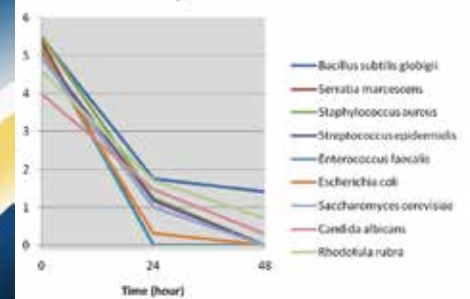
Sentinel™ Gold Microprocessor Controller

- Displays all safety information on one screen
- 4-Digit PIN menu access. No secret key combination
- Diagnostic button to assist service

ISOCIDE™ Anti-Microbial Powder Coating



Isocide™ performance



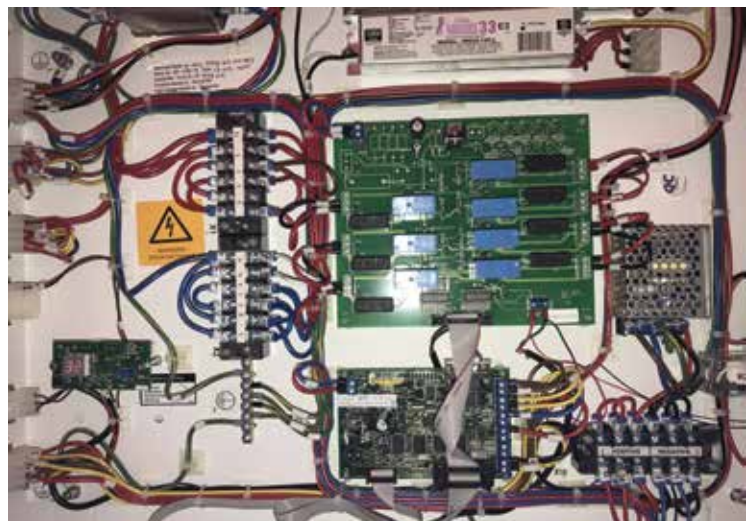
COME TO OUR
TROUBLESHOOTING CLASS
AND GET OUR **FREE, UPDATED**
TROUBLESHOOTING BOOKLET!

At Esco Manufacturer's
Update on April 13,

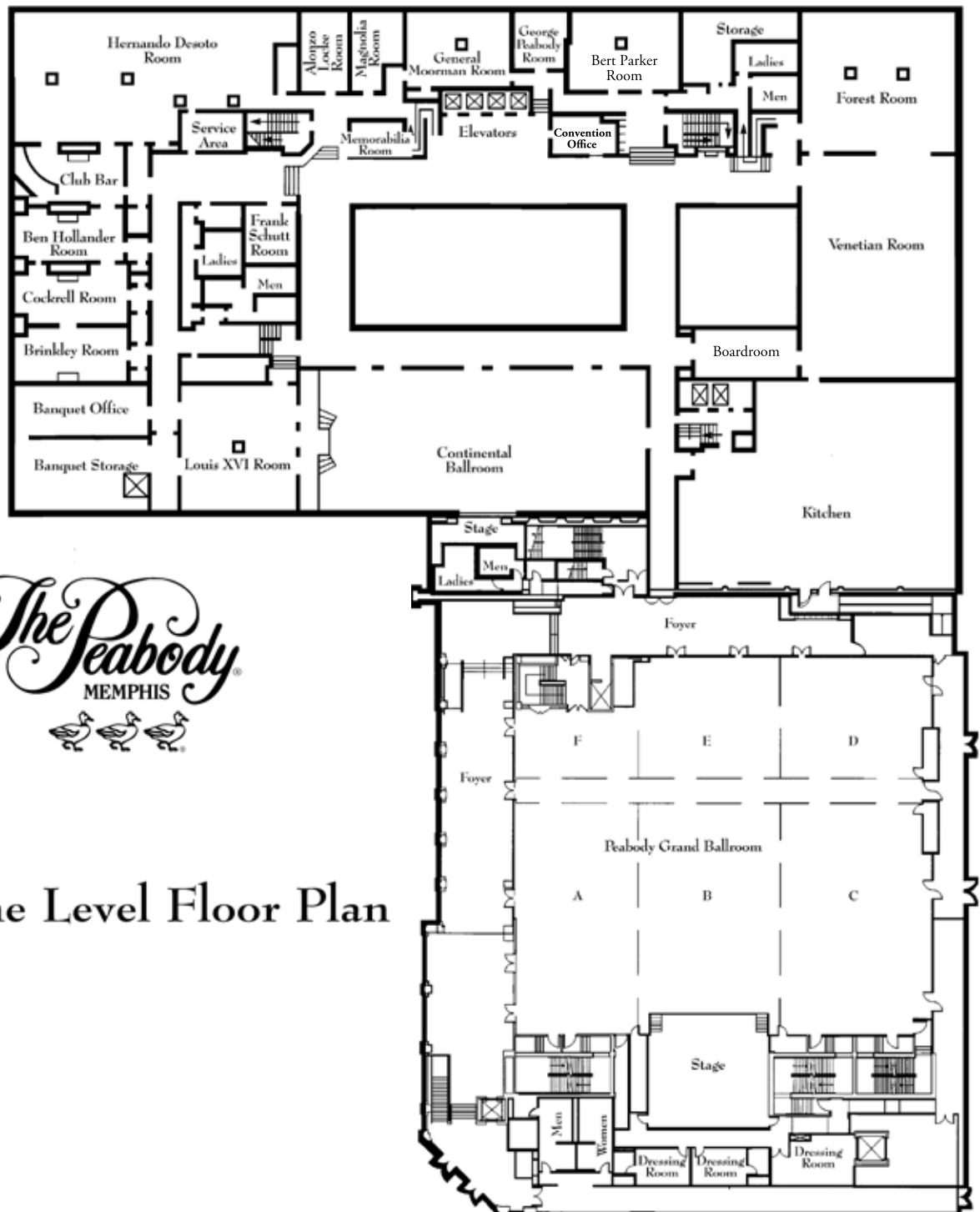
Saturday at 10 am

Venue: Peabody Hotel,
Memphis, TN

See you there!



FLOOR PLAN

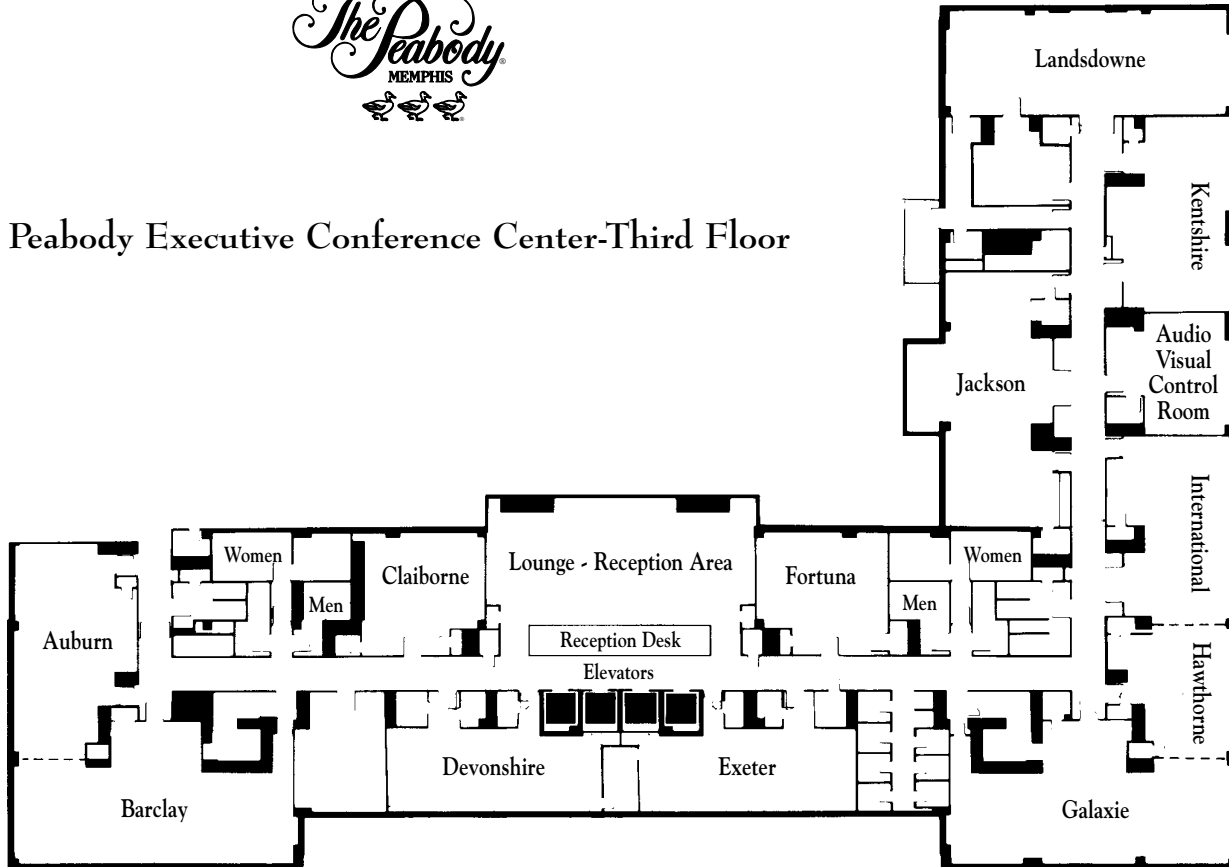


Mezzanine Level Floor Plan

FLOOR PLAN

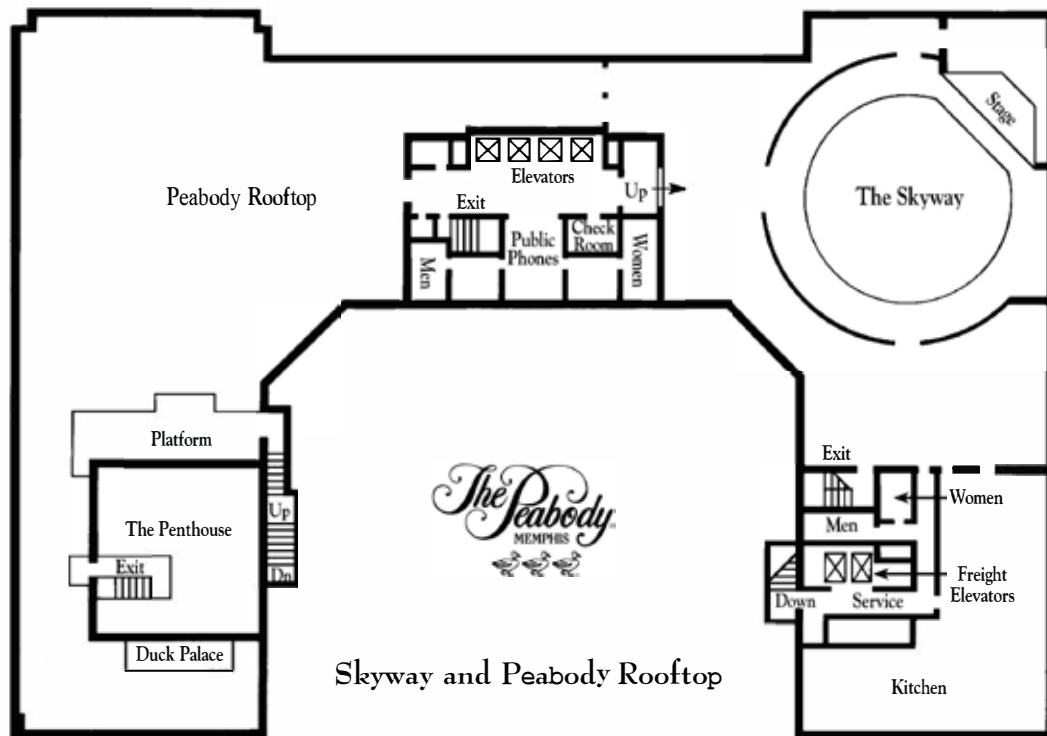


Peabody Executive Conference Center-Third Floor





FLOOR PLAN



Special Entertainment for Saturday Night – 926, the Stax Music Academy Alumni Band, is made up of graduates of the internationally-renowned Stax Music Academy, located at the original site of Stax Records in Memphis, Tennessee. The singers and musicians, representing some of the Stax Music Academy's most talented stars, are all now in college but are also performing as professional musicians. Many have toured the world in such locations as France, England, New York City, and Washington, D.C. During the summer, 926 plays at the Stax Museum of American Soul Music each Tuesday for locals and tourists alike, and they play each Monday and Friday at B.B. King's Blues Club on World Famous Beale Street.



SPEAKER BIOS

David Brande

David brings thirty-five years of experience in the regulated cleanroom industry. David is currently Lead Consultant for Cleanroom Project Management, Inc. Prior to this, he was a founder and President of Contamination Control Technologies, Inc. for 20 years, a company specialized in providing cleanroom and biological containment certifications, as well as international consulting services to the pharmaceutical, medical device and biomedical research industries.

David served for six years (2006-2012) as Chairman of the ISO/Technical Committee 209, an international group that oversees ISO Standards 14644 and 14698 and the eleven documents they comprise.

David is an active member of the International Society of Pharmaceutical Engineers (ISPE) and the Controlled Environment Testing Association (CETA), where he currently is the administrator of the CETA National Board of Testing (CNBT) for the association. He is a 1977 graduate of North Carolina State University with a BS in Life Sciences.

Douglas Ebert

I graduated from Lehigh University in Bethlehem, PA in 1985 with a bachelor's degree in Mechanical Engineering. I worked for Ford Motor Co in Lima, OH from 1985-1987 then moved with my wife to Indianapolis, IN. I worked for Allison Gas Turbine (division of GM at the time) in Plant Engineering from 1987-1992. I worked for the consulting engineering firm Ghafari Associates in Indianapolis as a design engineer and project manager from 1992-1998. I then worked for Eli Lilly and Co in Indianapolis starting in 1998 until the present. I have held roles as a building engineer for the biosynthetic insulin complex for my first 3 years, and then as a corporate engineering consultant for the past 17 years. I consult for the company on new large capital projects over \$30MM and on mechanical topics for the company globally. Most of my experience is with labs, chilled facilities, and sterile cleanroom facilities.

Herschell Hitchcock

Industrial Hygiene and Safety Professional with 33 years' experience. Owner of a validation/certification company that specializes in Compounding Facility Certification.

Academic qualifications:

- B.S. Industrial Technologies, Southern Illinois University
- B.S. Occupation Safety and Health Engineering (Columbia Southern/UES)
- Industrial Hygienist, Department of Defense
- National Sanitation Foundation Certification, NSF 49
- CETA National Board of Testing - Certified RCCP-SCF
- Harvard School of Public Health - HEPA Testing Course

Work experience:

- COO and Founder of EOC1, 14 years.

Jerry McGuire

Jerry McGuire is the Global Vice President of Marketing at AAF Flanders where he is responsible for driving business strategy and operationalizing enterprise growth plans. As a Marketing and Sales Enablement leader he has delivered dramatically increased sales efficiency, world class sales training, 15x growth in lead generation, multi-million dollar lead conversions, and significantly improved SEO. Jerry has been a featured speaker for Salesforce.com at their annual Dreamforce convention, a repeat speaker at NAFA on the subjects of Market and Customer Behavior Trends, and he frequently participates as an expert panelist on sales and marketing webinars.

Bart Naughton

Principal, Advanced Technology Environmental Control Systems, Inc. (ATECS)

Bart Naughton started ATECS in 1995. ATECS manufactures patented precision air control and diffusion equipment primarily for the clean room industry. Bart holds a B. S. Mech. Eng. Degree from University of Michigan and an MBA from Northwestern University. ATECS currently holds 5 US and International Patents in Air Flow and Diffusion Equipment. ATECS is a supplier to all of the major Microelectronic/Bio-Pharm, filter manufactures and major HVAC companies as well as large Mechanical Contractors.

Charlie Pellegrini

Charlie is the Controlled Environment Operations Manager at Pentagon Technologies. He has been in the Industry for almost 15 years and holds accreditations for CNBT-SCF and NSF. A CETA board of director since April 2018, he has been tasked as Chair of the CETA Spec Guide. In addition, Charlie volunteers his time for CNBT as a SME/Grader and as an instructor at the Eagleson Institute for Advanced Bio Safety.

Abby Roth

Abby Roth is the Director Learning and Development at CriticalPoint, LLC, a health care training and development company. In her current role she develops curriculum for CriticalPoint's elearning modules and live training classes. She is also a faculty member for the Sterile Compounding Boot Camp Live Training Series which includes but is not limited to environmental monitoring programs, contamination control practices and sanitization programs. Abby has over 14 years of experience in supporting the testing and consulting needs of the pharmaceutical, medical device and compounding industries. Her background in pharmaceutical microbiology includes extensive knowledge of environmental monitoring, including program

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development, sampling technique, sample analysis and data trending. Abby also has experience in consulting on microbial contamination sources and remediation. She is currently serving as an expert committee member of the 2015 to 2020 USP Compounding Committee.

Tom Smith

Thomas C. Smith is the President and CEO of 3Flow. Mr. Smith has worked for more than 30 years helping facilities provide safe, efficient and sustainable laboratories. He holds a Bachelor of Science in Mechanical Engineering from North Carolina State University and a Master of Science in Industrial Hygiene from the University of North Carolina. Mr. Smith has served as Chair of ASHRAE TC9.10 Laboratory Systems, Chair of the ANSI/AIHA Z9 Standards for Ventilation and Health and been a member of the ASHRAE 110 committee since 1991. He serves on the Board for the International Institute of Sustainable Labs (I2SL) and is a member of the Alumni Hall of Fame for the Mechanical and Aerospace Engineering Department at North Carolina State University.

Aaron Stout

A long time, 25-year plus, veteran of the HVAC industry with a focus on Air Filtration and Air Distribution. Aaron is a long time Member of ASHRAE who has served on the Board of Governors with Illinois ASHRAE Chapter along with the Technical Transfer Committee (TCC). For the past 14 years he has worked as an Engineering / Product Manager for Air Products Equipment Company in Chicago, IL.

Mike Soper

Northeast Regional Sales Manager, Critical Environments Specialist

Mr. Soper is one of the leading industry experts in room ventilation, differential pressure management, and mechanical systems for critical environments. His background includes innovation development, product management, and R&D at Schneider Electric, Phoenix Controls, and Setra Systems. Mr. Soper has more than 20 years experience providing global application engineering and consulting expertise to design engineers, building automation integrators, and end-users that operate regulated healthcare and laboratory spaces. He has a degree in mathematics from Boston College, and holds three US patents for hardware and software inventions. Mr. Soper is currently Northeast Regional Sales Manager at Setra Systems.

R. Vijayakumar, PhD

Consultant in Chief

Vijayakumar is the founder and head of AERFIL, a consulting company devoted to providing technical and business solutions and services for the filtration and contamination control industry, as well as educational and training support

for the industry. His current clients include major filtration companies in China, Brazil and India. With several patents and over 30 years' experience in leading filtration and particle test instrument companies to go with his PhD in particle technology, Vijayakumar is a globally recognized expert and mentor in contamination control and filtration sought after by clients world wide. He is an advisor to NASA for air filtration systems for space habitat. In keeping with his philosophy that knowledge grows only by sharing, he teaches freely and often wherever someone wants to learn the subject. He is a Distinguished Visiting Professor at the Chinese Academy of Building Research and has been on the faculty of the short course on air and gas filtration at the University of Minnesota since its inception. He is a Fellow and a Distinguished Lecturer of ASHRAE. He has taught courses in cleanroom designs for ASHRAE, and lectures around the world for them on various aspects of filtration and cleanroom designs. He has recently published an iBook on Aerosol Mechanics for the general user. He is a Fellow and past President of the IEST, the premiere contamination control organization in the US. Currently, he chairs standards development committees at the ISO and in the US writing standards for high efficiency filtration and filter media used in cleanrooms, hospitals, and indoor environments.

Jim Wagner

The president of Controlled Environment Consulting (CEC), has been involved in the Controlled Environment performance evaluation industry since 1979. His consulting includes design and evaluation of sterile compounding facilities, containment facilities and other engineering controls. Jim conducts international training on cleanroom and containment device certification. Prior to founding CEC, Jim was the President of Micro-Clean, a certification and validation company. Jim led the Controlled Environment Testing Association's (CETA) efforts to develop guidance documents for compliance with USP Chapter 797. He was a member of the USP Council of Experts for Compounding and an expert panel member for USP <800>. Jim is a current member of the USP Compounding Expert Committee responsible for revisions to USP <797>. Jim is a steering committee member for NSF/ANSI standard 49 Biosafety Cabinetry: Design, Construction, Performance, and Field Certification. Jim was a two-time president of the Controlled Environment Testing Association including being CETA's first president in 1991-92. Jim was awarded CETA's Mel First award for outstanding contributions to the advancement of certification and testing of controlled environments.

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