

**Controlled Environment
Testing Association**

Seventeenth Annual Meeting

April 17-22, 2009

**Marriott Myrtle Beach Resort
at Grande Dunes**

Myrtle Beach, South Carolina



Schedule

Saturday, April 18

11:00 am – 8:00 pm

Registration

Lobby

1:00 pm - 5:00 pm

CETA Series Presentation: Alternate Decon Methods for Biological Safety Cabinets

Atlantic 2-3

Mike Regits, DRS Labs Wayne Copeland, CEPA John Klostermyer, Steris

BSC Decontaminations – Alternative Techniques: This tutorial will review the general conditions necessary for the successful gas or vapor phase decontamination of a biological safety cabinet. It will serve as an introduction to the practical workshop/demonstrations that follow. Detailed discussions of the techniques involving the use of formaldehyde gas, hydrogen peroxide vapor and chlorine dioxide gas are presented. An overview is given of their operating parameters as well as noting advantages and potential disadvantages of each chemical system. The discussion will conclude with a comparison of these three most used chemical methods for BSC decontamination.

Mini – Chlorine Dioxide System: This workshop will give practical demonstrations of how chlorine dioxide (CD) gas is used for the decontamination of BSC's in accord with the recent protocols issued by NSF International. Much of this will occur while simultaneously introducing DRS Laboratory's new Mini-Chlorine Dioxide System (MCS), which uses water and tablets containing CD-generating chemicals to produce the fumigant. Associated equipment is used to circulate the gas through and subsequently remove the gas from the BSC in a safe and user-friendly manner. Decontamination times will generally be on the order of 3 hours. There will also be a presentation of the CD system for BSCs offered by ClorDi-Sys Solutions, using chlorine gas and sodium chlorite cartridge for CD generation.

Formaldehyde gas decontamination of BSC's and other laboratory equipment. This workshop will review the long standing method of gas decontamination using Formaldehyde. We will review the pro's and con's of the hot plate method of decontamination. We will also discuss the benefits of using alternative equipment to circulate the gas and help automate the process. This will provide ideas to help minimize down time by *simplifying the set up, teardown and cleanup using equipment such as the Certek.*

7:00 pm - 9:00 pm

CETA Annual Meeting Opening Reception

Courtyard

(In condition of rain: Atlantic 4)



Mark Your Calendars!
CETA's 18th Annual Conference
April 9-13, 2010

Chaparral Suites Resort Scottsdale, Arizona

Schedule

Sunday, April 19

7:00 am

Exhibit Setup Begins
East & North Halls

7:00 am - 5:00 pm

Exhibit Open
East & North Halls

7:15 am – 1:30 pm

Registration
Lobby

8:00 am-9:00 am

Breakfast
East Hall

8:00 am – 1:00 pm

CETA Annual Meeting General Session
Atlantic 5 (unless otherwise noted)

8:00 am - 8:10 am

Welcome
Jeff Smith, CETA Program Chair

8:10 am - 8:30 am

President's Address
Bill Peters, CETA President

8:30 am - 9:00 am

Safety in Nanotechnology Facilities
Troy Tillman, TSI

Presentation will discuss what nanoparticles are, how they differ from other particles, what concerns Certifiers should have when entering areas with nanoparticles, & questions to ask prior to entering these spaces.

Learning Objectives:

- Definition of nanoparticles
- Safety issues working in areas with nanoparticles
- Filtration, ventilation and PPE related to nanoparticles

9:00 am - 9:30 am

Consideration of Safety and Regulatory Compliance for Field Certifiers
John Balog, New Mexico State University

Description: Field certifiers work in a variety of settings; research, clinical, pharmaceutical and production laboratory environments. This presentation will review some basic OSHA safety and regulatory program requirements for certifiers. Topics include, but are not limited to chemical hygiene and biological safety and, respiratory protection program requirements.

Learning

Objectives: Review fundamental OSHA program requirements for field certifiers, Re-enforce the notion that field certifiers need to be aware of and incorporate safe work practices in their on-site activities. Remind field certifiers and their management team of the shared obligations to work safely and comply with the required regulations in performing work in the field.

9:30 am - 10:00 am

CETA Spec Guide Update
Greg Bashe, Cert-Pro

10:00 am - 10:30 am

VHP Decons
Leslie Hall, Mayo Clinic

10:30 am - 11:00 am

Break/Exhibits
East & North Hall

Schedule

Sunday, April 19 (cont.)

11:00 am - 11:30 am

Validation of Chlorine Dioxide Gas for Decontamination of BSC's (Final Summary) **Henry Luftman, Microclean**

Processes using chlorine dioxide (CD) gas for the biological decontamination of Class II biological safety cabinets (BSCs) have been validated following a protocol developed in conjunction with NSF International. This report reviews the protocol and presents the results of the study. Trials were performed in type A1, A2, B1 and B2 cabinets of two different makes. Two methods of CD generation were included within the trials, with one involving the injection of a specific mass of CD gas dependent upon the BSC volume, and the other involving the maintenance of a constant CD gas concentration over the duration of the exposure.

Learning Objective:

- Appropriate considerations in the design of a validation program for gaseous decontaminations
- Efficacy of chlorine dioxide gas in the decontamination of BSC's
- Two methodologies for performing chlorine dioxide gas decontaminations

11:30 am - 12:00 pm

CETA Cleanroom Certification Program *Chris Rowe, CETA BOARD Member*

12:00 pm - 1:00 pm

Lunch **Atlantic 4**

1:00 pm - 4:00 pm

Equipment Manufacturer's Forum *See Details on right*

1:00 pm

CETA Spec GuideAtlantic 6
TECAtlantic 7
TSI.....Atlantic 8
ESCO.....Tides 1

1:30 pm

CETA Spec Guide.....Atlantic 6
TECAtlantic 7
DRS Laboratories, Inc.Atlantic 8
EscoTides 1

2:00 pm

AccugenixAtlantic 6
TEK AirAtlantic 7
ThermoAtlantic 8
LabconcoTides 1

2:30 pm

ATIAtlantic 6
Flow ScienceAtlantic 7
ThermoAtlantic 8
LabconcoTides 1

3:00 pm

NuAireAtlantic 6
ClordisysAtlantic 7
Baker.....Tides 1

3:30 pm

NuAireAtlantic 6
ClordisysAtlantic 7
Holland Safety.....Atlantic 8
Baker.....Tides 1

4:00 pm

Evergreen Telemetry.....Atlantic 7
Holland Safety.....Atlantic 8

Schedule

Sunday, April 19 (cont.)

4:00 pm - 5:00 pm
NSF Steering Committee
Location: Atlantic 5

Monday, April 20

7:00 am -9:00 am
Breakfast
East Hall

7:10 am – 1:30 pm
Registration
Lobby

7:00 am - 4:00 pm
Exhibits Open
East & North Halls

8:00 am – 1:00 pm
CETA Annual Meeting General Session
Atlantic 5 (unless otherwise noted)

8:00 am - 8:10 am
Conference Updates
Jeff Smith, CETA Program Chair

8:15 am - 9:00 am
Keynote Address: History of HEPA filters and
George's Story with Flanders and Mil Std Testing
George Cadwell, Specialty Testing Services

Presentation includes some of the history of HEPA filters; explanation of the laminar flow velocity of 100 feet per minute; development of 0.01% as the limit of acceptable leaks in scan testing and development of the ULPA filter.

9:00 am - 9:30 am
Loss of Class II Type A2 Biological Safety
Cabinet Containment
Nick Flynn, B&V Testing

9:30 am - 10:30 am
Break/Exhibits
East & North Halls

10:30 am - 11:00 am
Revision of NSF Standard 49
Bill Peters, NuAire

11:00 am - 11:30 am
USP 797 Environmental Monitoring
Mike Gephart, Energy Plus Scientific

11:30 am - 12:00 pm
Testing of Gloveboxes
John Valandry, The Baker Company

12:00 pm - 1:00 pm
Lunch
Atlantic 6-8 & Courtyard

1:00 pm - 5:00 pm
CETA Series Presentations: Testing Negative
Pressure Isolators
Location: Atlantic 5
Jeff Serle , Germfree Laboratories; Wayne St
Germain, Germfree Laboratories; Sal Golfo,
Germfree Laboratories; Tony McGrath, The Baker
Company; Aaron Johnson, The Baker Company;
Mike Martin, Esco Technologies; Magdy Moussa,
IsoTech Designs

4:00 pm - 5:00 pm
Exhibit Break Down
East & North Halls

6:30 pm - 10:00 pm
CETA Annual Banquet
Oleander A & B

Schedule

Tuesday, April 21

7:15 am-8:00 am

Breakfast

East Hall

8:00 am – 1:00 pm

CETA Annual Meeting General Session

Atlantic 5 (unless otherwise noted)

8:00 am - 8:10 am

Conference Updates

Jeff Smith, CETA Program Chair

8:15 am - 9:00 am

Testing High Temperature Filters in Ovens and Tunnels

Hans Melgaard, Despatch Ovens

9:00 am - 9:30 am

Differential Pressure Measurements in Cleanroom

Chris Rowe, NNE Pharmaplan

9:30 am - 9:45 am

Conference Evaluation Form Review

9:45 am - 10:00 am

Break

East Hall

10:00 am - 10:45 am

ISO 14644 and EMEA Standards

David Brande, Chairman of ISO/TC 209

10:45 am - 11:30 am

General Election / Member Business Meeting

10:45 am - 11:30 am

Meeting Adjourns

12:00 pm - 2:00 pm

Thermo Manufacturers Update

Atlantic 6-8

CETA Officers

President.....William Peters
NuAire, Inc

President ElectJeff Smith
Agape Instruments Service Inc.

Secretary/TreasurerTroy Tillman
TSI Incorporated

Immediate Past President..Carl LaBella
CSI Testing, Inc

CETA Directors

Dave Crosby, Air Techniques International

Marc DuBois, C-Scan Technologies

Nicholas T. Flynn, B&V Testing Inc.

Gene Klingbeil, Filtration Group, Inc.

Kenneth W Mangis, Eli Lilly, Inc.

Tony McGrath, The Baker Company

Chris Rowe, NNE US Inc.

Allan Steinke, Controlled Environment Technologies

Jim Wagner, Controlled Environment Consulting

CETA Staff

Executive DirectorFelicia Kenan
Membership ServicesAngela Kite



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- 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

The Baker Company

Speakers

Keynote Speaker:

George Cadwell, Specialty Testing Services

- BSME Worcester Polytechnic Institute w/Distinction, 1960
- Flanders Filters, Engineer 1965 – 1969, Vice President 1969 thru 1988.
- Active in early scan testing of HEPA filters, developer of fluid seals and ULPA filters, molded filter elements.
- AACC (American Association for Contamination Control) Committees CS 1, CS 4 and CS 6, HEPA Filters, Laminar Flow Devices and Clean Rooms
- IES (Institute of Environmental Sciences) Committees RP 1, RP 4, RP 6 and RP 7 (ULPA Filters), Chairman
- IES Vice President, Finance, 1987
- Harvard School of Public Health, Guest Lecturer, Short Course on Clean Rooms 1986, 1987
- Various magazine and trade journal articles 1970 to 1985
- Study of sub 0.3micron size particles in U.S. Semi-conductor Fabs, mid 1980's
- Chapter in Bill Whyte's, Clean Room Technology, 1st Edition circa 1987
- Nitta Industries/JR3 Corp Business consultant 1988 to 1993
- Specialty Testing Services, Validator of Clean Rooms, 1993 to present
- Certifier of Chem-Bio systems at U.S. embassies.
- I.E.S.T. Fellow 2007
- Holder and/or Inventor of U.S. Patents:
 - **3486311 Dec 30, 1969** Filter Bank Assembly, a clean room ceiling grid using fluids including but not limited to greases and gels to seal HEPA filters to a grid work.]
 - **4860420 August 29, 1989** Method of fabricating a clean room filter bank. A method of packaging components of clean construction with protective packaging to remain in place until after completion of construction.
 - **4608066 August 26, 1986**, Clean room adapted for variable work configurations. Clean Room design with walls supported by ceiling grid to minimize vibrations and facilitate rearrangement of clean room partitions.
 - **4639261 January 27, 1987** High Efficiency Air Filter. HEPA filter with flange wiper to minimize extraction of fluid sealant
 - **4671811 June 9, 1987** Laminar Flow Clean Room. Design of clean room ceiling to minimize turbulence of air flow under filter supporting grid.
 - **4678487 July 7, 1987** Laminar flow clean room having improved filter bank. Clean room ceiling to minimize turbulence of air flow under filter supporting grid

John Balog, BS, RBP (ABSA)

John is the Program Manager and Biosafety Officer at New Mexico State University. His work experience history includes HIV production at BSL-3, clean room production of cell and tissue culture media, and performing plasmid DNA production. He participates in facility design plan review for new research laboratory construction and renovations. Prior to moving to Las Cruces, John was the Biosafety Officer for the Johns Hopkins Institutions in Baltimore, MD. He is a member of the ABSA since 1994, serving as Management Team Leader and a member of the Historical and Affiliate Relation Committees. He earned an Associate in Applied Science and a Bachelor of Science from Youngstown State University in Youngstown, Ohio.

Speakers

Hans L. Melgaard, *Vice Chairman-Technology, Despatch Industries*

- Education-BS and MBA degrees from the University of Minnesota
- Over 40 years management experience in research, engineering, marketing and international operations at Despatch.
- Member of the International Society of Pharmaceutical Engineers (ISPE) and the Industrial Heating Equipment Association (IHEA)
- Past President
 - ◆ Industrial Heating Equipment Association (IHEA)
 - ◆ International Microwave Power Institute (IMPI)
- Holder of more than 30 US and international patents.
- Author of more than 40 technical publications
- Co-author of multiple technical books on pharmaceutical manufacturing and process heating
- Member of the task group updating PDA Technical Report #3 (Validation of Dry Heat Process used for Sterilization and Depyrogenation) 2009

Michael A Regits, DRS Laboratories

Michael A Regits is President of DRS Laboratories in Allentown, PA. His company's primary focus and research is directed on chlorine dioxide methods for gas-phase biological decontamination. Other projects involve space and surface decontamination for pharmaceutical and bio-technical laboratories and manufacturing sites, as well as developing practical applications for nontraditional decontamination chemicals and techniques. Michael's recent work includes a collaboration with NSF International in regards to the use of chlorine dioxide gas as a decontaminant. His knowledge and experience has come from the prior 23 years where he worked at Micro-Clean in various capacities.

Troy Tillman, TSI

Troy Tillman has held various positions at TSI Incorporated over the past 15 years. He has helped to develop many of the instruments used by Certifiers including Thermal Anemometers, Direct Inflow Devices, Particle Counters and more. Troy has also worked with TSI's fume hood monitors, laboratory controls, and Hospital isolation monitors as well as IAQ, Industrial Hygiene and Research Particle products. He has been an active member in ASHRAE, NEBB, CETA, and AIHA, speaking at numerous conferences.

Exhibitors

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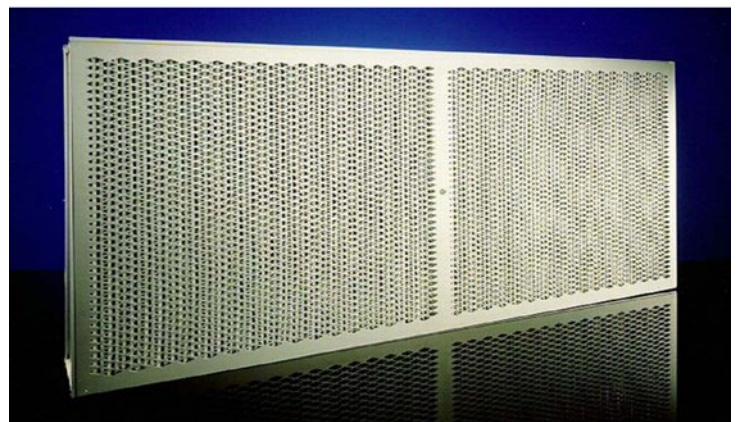
Exhibits Times

Sunday:

7:00 am – 8:00 am
10:30 am – 5:00 pm

Monday:

7:00 am – 8:00 am
9:30 am – 10:30 am



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Exhibitors

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www.flowsciences.com

Booth 2

DRS Laboratories, Inc.

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 3

Bioquell, Inc.

BIOQUELL are world leaders in providing hydrogen peroxide decontamination equipment and services into the healthcare, life sciences, food production and defense sectors.

www.bioquell.com

Booth 4

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.

www.pathcon.com

Booth 5

ChlorDiSys

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 6

Aerobiology Laboratory

Aerobiology Laboratory Associates is an accredited microbiology laboratory with three locations in Washington D.C. area, Atlanta, Georgia and Denver, Colorado. We specialize in bacterial and fungal analyses to support USP 797 and clean room testing. Aerobiology offers equipment rental and testing consultation. Contact Suzanne Blevins or Chris Blevins at 877 648 9150 .

www.aerobiology.net

Exhibitors

Booth 7

EMLab P&K

EMLab P&K specializes in the analysis of air and surface samples for fungi, asbestos, and bacteria and is the leading commercial IAQ testing laboratory with over 40 service and drop-off locations. We have pioneered today's IAQ industry by developing the tools for precise data interpretation, including MoldRange™ and MoldScore™.

www.emlab.co

Booth 8

Accugenix, Inc.

Accugenix, Inc. is the world's leading service laboratory for microbial identification and characterization. We test and analyze environmental isolates common in pharmaceutical and other manufacturing industries using our validated DNA sequence library. Identification of 300,000+ microorganisms. FDA-registered, cGMP compliant, competitive global standards. Accugenix—the leader in genetic microbial identification.

www.accugenix.com

Booth 9

Germfree

GERMFREE specializes in the production of all-stainless steel unidirectional (laminar) flow equipment for hospital, pharmacy, and oncology use. GERMFREE manufactures a full line of USP <797> and NIOSH compliant barrier isolators as well as horizontal and vertical laminar airflow hoods and chemo hoods. With over 45 years in the industry, GERMFREE has the experience to provide the best protection for patients, personnel and products.


www.germfree.com

Booth 10

Camfil Farr

Camfil Farr is the world leader in air filtration and clean air solutions, with 22 production plants and R&D centers in the Americas, Europe and the Asia-Pacific region. In North America our facilities are in Riverdale NJ, Washington NC, Conover NC, Crystal Lake IL, Corcoran CA, Toronto and Laval Canada.

www.camfilfarr.com



PERFORMANCE TESTING WORKSHOP FOR CLASS III BSC


This two day workshop will be a mix of instruction, discussion and hands-on exercises covering a variety of topics related to performance testing of the Class III Biological Safety Cabinet.

TOPICS WILL INCLUDE:

- Review of current industry practices
- Review of certification practices from other industries
- Current tests and methods used for certification
- Hands on demonstrations and training to include:
 - Helium leak testing
 - Pressure decay testing
 - Setting operational negative pressure
 - HEPA and carbon filter testing

TENTATIVE DATE NOVEMBER 5-6, 2009
ORMOND BEACH, FL, USA

For Further Information Contact:
Jeanne Stalzer
Phone: 800-888-5357
International phone: +1-386-677-7742
Email: JeStalzer@GERMFREE.com
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Exhibitors

Booth 11

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www.escoglobal.com

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- *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

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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 freezers for the most demanding environments.

www.nuaire.com

Booth 14

Tek-Air Systems

Tek-Air manufactures and sells precision air valves and controls for critical environments. Specialists in airflow measurement, Tek-Air provides the customer with a variety of robust and accurate devices for measurement and control of airflow in difficult areas. Established in 1983, Tek-Air has a list of customers and applications unmatched in the industry.

www.tek-air.com

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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

Exhibitors

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Air Techniques International

ATI is the industry leader in the design and manufacture of a comprehensive line of test equipment for filter media testing, panel filter testing, respirator cartridge testing, respirator testing and in-place HEPA/ULPA filter certification. For more information, or a price quotation, contact the ATI sales department.

www.atitest.com

Booth 17

Evergreen Telemetry

www.evergreentelemetry.com

Booth 18

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.biz

Booth 19

Holland Safety Equipment

HSE is the North American distributor for products manufactured by TEL--Temperature Electronics Ltd. TEL makes air flow monitors for fume hoods and bio-safety cabinets, VAV fume hood control products (including room pressure controls and fresh air bleed controls) and room pressure monitors.

Contact HSE at (847) 680-9930.

www.hollandsafety.com

Booth 20

Airflotek, Inc.

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 21

Filtration Group, Inc.

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



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Exhibitors

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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

Booth 23

Labconco

Labconco has two one-hour updates, Saturday 10 & 11 a.m. in Atlantic Rooms 1-3, including an overview and tips on certifying the Logic. Two half-hour updates at 2:00 and 2:30 in Tides 1 Room will review the Paramount enclosure and redesigned Logic canopies. A Logic cart will be available for individuals to learn its operation.

www.labconco.com



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