AIHA Yuma Pacific-Southwest Section: 45th Annual Meeting

Update from ACGIH®

Frank Mortl III, CAE
ACGIH® Executive Director

January 24, 2020
DEFINE YOUR SCIENCE!

ACGIH® advances the careers of professionals working in the occupational and environmental health, industrial hygiene, and safety communities interested in defining their science.
Agenda

• Volunteer Leadership
• Scientific Committees
• Strategic Priorities
• Career Advancement
  ▫ Opportunities for EHS Professionals
  ▫ Signature Publications
  ▫ Digital Competencies
  ▫ Educational Development
  ▫ Engagement Mechanisms
• Industry Collaboration
• Define Your Science
  ▫ All Stages of Career Development
• Social Media Platforms
• Consideration of Support
ACGIH® Board of Directors con’t

Donald D. Elswick, CIH, CSP, CHMM, CIT  
(Director)

Thomas J. Lentz, PhD  
(Director)

Sheryl A. Milz, PhD, MOD, CIH, FAIHA  
(Director)

J. Torey Nalbone, PhD, CIH, FAIHA  
(Director)
ACGIH® Board of Directors con’t

Donald M. Weekes, CIH, CSP  
(Director)

Frank Mortl III, CAE  
(Executive Director)
COL Mary S. Lopez, PhD, CPE (Ret.)
Chief, Occupational Therapist – Army
Manager, Automated Neuropsychological Assessment Metrics (ANAM)
Director, Strategic Initiatives/360°
United States Army

• Johns Hopkins University School of Public Health
• Subject Matter Expert in Ergonomics & Human Factors
• Certified Professional Ergonomist (CPE)
• ACGIH® TLV-Physical Agents Committee Past Chair (2010 – 2018)
Nancy Eva Wilk, CIH
Senior Consultant – Occupational Hygiene & OHS
Krivonosov Risk Management Consultants (KRMC)

• Occupational Hygiene & Occupational Health and Safety (OHS) Consultant
• Provincial Offences Officer & Occupational Hygiene Consultant – Ontario Ministry of Labour
• Focus on Providing OHS Services Supporting Management, Labour, and Government Agencies

ACGIH® Board Treasurer – Officer
Jack Caravanos, DrPH, CIH  
Clinical Professor of Global and Environmental Health – College of Global Public Health  
New York University

- 40+ Years Developing Industrial Hygiene and Environmental Health Programs at Hunter College – City University of New York
- Leader of Toxic Site Inventory Program for Pure Earth since 2005
- Lead Author of *Quantitative Industrial Hygiene: A Formula Workbook*
Michael J. (Mike) Ellenbecker, ScD, CIH
Professor Emeritus of Environmental & Occupational Hygiene
Director, Massachusetts Toxics Use Reduction Institute (TURI)
University of Massachusetts Lowell

• Harvard School of Public Health & University of Massachusetts Lowell
• Focus on Aerosol Science & Control of Airborne Contaminants
• Published More Than 80 Articles & Co-Authored Two Textbooks

ACGIH® Board Member – Director
Donald D. Elswick, CIH, CSP, CHMM, CIT
EHSS Trainer and Specialist
ELSMART Associates, LLC
ACGIH® Board Member – Director

- Studies design, planning, and control engineering safety & health challenges
- Major duties include developing information for agencies/industry/labor/public
- Previously served as Policy Response Coordinator for NIOSH
- AIHA Fellow

Thomas J. (T.J.) Lentz, PhD
Lead Health Scientist/Research Occupational Hygienist
Chief, Document Development Branch
National Institute for Occupational Safety & Health, Centers for Disease Control & Prevention (NIOSH/CDC)
Sheryl A. (Shery) Milz, PhD, MOD, CIH, FAIHA
Associate Professor, School of Population Health in the College of Health & Human Services
ASAC-ABET Accredited Master of Science in Occupational Health Instructor
University of Toledo

• Served as Safety & Occupational Health Manager; Field Industrial Hygienist; and Epidemiologist
• Focus on Biostatistics, Epidemiology, Risk & Exposure Assessment
• AIHA Fellow
• ACGIH® Immediate Past Chair of the Board
ACGIH® Board Member – Director

J. Torey Nalbone, PhD, CIH, FAIHA
Chair, Civil & Environmental Engineering and Construction Management Departments
University of Texas at Tyler

- Focus on Field/Lab Work, Teaching, Regulatory Enforcement/Oversight
- ABIH Past Chair of the Board
- AIHA Fellow
- ACGIH® Past Chair of the Board
ACGIH® Board Member – Director

• Occupational & Environmental Consultant
• Focus on Indoor Air Quality Issues in Buildings
• IAQA Past President
• IEQ-GA Current President
• AIHA Fellow

Donald M. (Don) Weekes, CIH, CSP
President (Ret.)
InAIR Environmental Ltd.
ACGIH® Board Member – Exec Dir.

Frank Mortl III, CAE
Executive Director
American Conference of Governmental Industrial Hygienists

- 22+ Years as an Association Leader
- Focused on Advancing the Mission of ACGIH®’s 501(c)(3) Capacity
- Certified Association Executive – a Rare Accomplishment within the Nonprofit Community
ACGIH® Scientific Committees

Bioaerosols Committee

To compile and disseminate information on biologically derived contaminants that may become airborne, to develop recommendations for assessment, control, remediation, and prevention of such hazards, and to establish criteria for bioaerosol exposure limits.

Chair: Cheri Marcham, PhD, CIH, CSP, CHMM, FAIHA
Vice Chair: John P. Springston, CIH, CSP, FAIHA
Members:

Albert V. Condello III, CSP, CHMM, NREMT
John David Krause, PhD, MSPH, CIH
Stephen R. Larson, MS, CIH, CSP, RBP, RRPT
Francis J. Offermann, PE, CIH
Paula H. Vance, RM/SM(NRCM), SM(ASCP), CIE
ACGIH® Scientific Committees

Biological Exposure Indices Committee

To develop occupational biological exposure guidelines that are scientifically valid and supported by professional judgment, up-to-date, well-documented, understandable and clear, and produced by a clearly-defined process that is balanced and free of conflict of interest.

Chair: Larry K. Lowry, PhD
Vice Chair: Glenn Talaska, PhD, CIH
Members:

- Michael Bader, PhD
- Lee M. Blum, PhD, DABFT
- Jean Grassman, PhD, MS, CPH
- Nancy B. Hopf, PhD
- Kate Jones, MPhil
- Heiko U. Kaefferlein, Dr. rer. nat.
- Leena A. Nylander-French, PhD, CIH
- Gary J. Spies, MPH, CIH, CSP
- Claude Viau, MS, Dsc
ACGIH® Scientific Committees

Industrial Ventilation Committee

To provide a safe and healthful environment by integrating state-of-the-art information from government and industry sources, using them to develop and recommend ventilation and other engineering controls to capture, collect, filter, and remove airborne contaminants from the workplace.

Chair: Jonathan F. Hale, MPA
Vice Chair: Gregg Grubb, CIH
Members:

Sergio A. Caporali Filho, PhD, CSP, CIH
Michael Clark, PE
Michael R. Clarke
John Curran
Robert Dayringer, CIH
George R. Gruetzmacher, PhD, PE, CIH
Christopher P. Manning, PhD

John L. McKernan, ScD, CIH, CAPT
Dale Price
Rafael Sartim, PhD
Robert Shearer
Jennifer L. Topmiller, MS
Neil J. Zimmerman, PhD, PE, CIH, FAIHA
ACGIH® Scientific Committees

Threshold Limit Values for Chemical Substances Committee

To recommend airborne concentrations of agents and exposure conditions for use in the practice of industrial hygiene and by other qualified professionals to protect worker health.

Chair: Rachel Rubin, MD, MPH
Vice Chair: Bruce D. Naumann, PhD, DABT

Members:

Marcy I. Banton, DVM, PhD, DABVT
Jeremy Beach, MB, BS, MD
William S. Beckett, MD, MPH
Dennis M. Casserly, PhD, CIH, FAIHA
Hugh W. Davies, PhD, MSc, BSc, CIH
Michael DeLorme, PhD
Laura Deakin, PhD, MPH
Alison Elder, PhD
Deborah C. Glass, MA, MSc, PhD
Ian A. Greaves, MD
Theodore J. Hogan, PhD
Gerald L. Kennedy, Jr.
Tracy Kimmel, PhD, DABT
Michael T. Kleinman, PhD
Edward V. Sargent, PhD, MPH, DABT
Darius D. Sivin, PhD
James Wagner, PhD
ACGIH® Scientific Committees

Threshold Limit Values for Physical Agents Committee

To develop occupational exposure guidelines for physical agents, including those of an acoustic, electromagnetic, radiological, ergonomic, mechanical, and thermal nature.

Chair: Richard L. Neitzel, MS, PhD, CIH
Vice Chair: Laurel Kincl, PhD, CSP
Members:

- Martin Cherniack, MD, MPH
- Kenneth R. Foster, PhD, PE
- Karl Friedl, PhD
- Stephanie C. Griffin, PhD, CIH
- Bernard Martin, PhD
- David M. Rempel, MD, MPH, CPE
- David H. Sliney, PhD
- Suzanne D. Smith, PhD
- June T. Spector, MD, MPH
- Bruce E. Stuck, MS, ScD
2020 Strategic Priorities for ACGIH®

- Advancing EHS Careers
- Education & Professional Development
- Electronic Publications
- TLV-App Calculations, Contributions & Engagement
- Virtual Volunteerism
- Digital Networking
How Does ACGIH® Help Environmental Health & Safety Professionals Define Their Science?

- Earn All **Your** CM Points
- Ethics Training
- Fundamentals in Industrial Ventilation Course
- **Complimentary** Annual TLVs® and BEIs® Book
- AIHce: $200 Discount on Registration
- **Complimentary** online Journal of Occupational & Environmental Hygiene issues
- **Complimentary** “The Action Level!®”
- Webinars
- Scientific Committees
- **(10) Complimentary** Documentation of TLVs® & BEIs®
- AIHce: $50 Discount on PDCs
- **Complimentary** Annual Reports of the Committees on TLVs® and BEIs®
ACGIH® Signature Publications

- TLVs® and BEIs® Book
- Guide to Occupational Exposure Values
- Industrial Ventilation: Design
- Industrial Ventilation: Operation & Maintenance
- Air Sampling Instruments
- Air Sampling Technologies
- Bioaerosols: Assessment & Control
- Modern Industrial Hygiene
- Handbook of Ventilation for Contaminant Control
- Quantitative Industrial Hygiene
Digital Competencies: ACGIH® & Techstreet

acgih.org

**Electronic Delivery Method**
- Digital Downloads
- Online Store
- Books in Electronic Form or Print-On-Demand

**Subscription Service**
- Build a Customized Library with DRM Titles
- Bundle Products within the EHS Field

**Occupational & Environmental Health Products**
- Guidelines & Recommendations
- 2020 Market-Ready Items

**Digital Rights Management**
- Confirmed New Publications & Updates
- Laptop, PC, Tablet & Mobile-Friendly

**Member Benefits**
- Traditional Free TLVs® and BEIs® Book Every Year!
- Either in Digital or Printed Formats

**600,000+ Existing Digital Users**
- Academic, Business, Insurance, Legal, Technical & Other Global Professionals
# Earn All Your CM Points

<table>
<thead>
<tr>
<th>ACGIH® Educational Benefits:</th>
<th>Maintain CIH, CAIH, CSP, OHST &amp; CHST Certifications:</th>
</tr>
</thead>
</table>
| **ACGIH®’s** “The Action Level!®” | • **Complimentary** At-Home, Self-Study, Continuing Education Program  
| | • Earn Up To 12 Contact Hours of CM Credit & 1.2 Recertification Points Per Year  
| **AIHce Registration** | • **$200 Discount** on AIHce EXP Registration  
| | • Earn Up To 18 CIH CM credits & 1.5 BCSP Recertification Points  
| **AIHce PDCs** | • **$50 Discount** on Professional Development Courses  
| | • 1-Half Day PDC & 1-Full Day PDC  
| **Recorded Ethics Training** | • **Discounts** on ACGIH®-Sponsored Courses, e-Learning, Symposia, Workshops & Webinars  
| | • Maintain Certification & Develop Skills to Strengthen **Your** Professional Profile  

- [Image] Maintains CIH, CAIH, CSP, OHST & CHST Certifications:
- [Image] Discounts on ACGIH®-Sponsored Courses, e-Learning, Symposia, Workshops & Webinars
- [Image] Maintain Certification & Develop Skills to Strengthen **Your** Professional Profile

27
2020 ACGIH® Webinars: $99 Each!

Computational Fluid Dynamics: Fundamentals in Industrial Ventilation
- Date: March 18th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Effective Exposure Assessments Using Real-Time Aerosol Monitors
- Date: July 15th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Understanding & Controlling Toxic Metal Fumes - Welding/Associated Processes
- Date: May 13th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Occupational Chemical Risk Assessment
- Date: August 20th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Cumulative Risk Management: When Chemical & Physical Hazards Collide
- Date: June 17th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Respiratory Protection Pitfalls: OSHA Citations & How to Avoid Them
- Date: September 16th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

Using the ACGIH® TLV® for Lifting
- Date: October 21st
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours

The ACGIH® Cold Stress TLV®: Science & Use
- Date: November 18th
- CIH CM Credit and/or BCSP Points: Earn 2 Contact Hours
# Fundamentals in Industrial Ventilation & Practical Applications of Useful Equations

## What Do Students Receive?

<table>
<thead>
<tr>
<th>Accreditation</th>
<th>Who Should Attend?</th>
</tr>
</thead>
</table>
| • 32 Hours of Instruction | • Industrial Hygienists  
• HVAC Engineers & Designers  
• Plant & Facilities Engineers |
| • CM Credits | • Safety Professionals  
• Compliance Officers  
• Environmental Engineers  
& Designers |
| • BCSP Recertification | • Maintenance Supervisors  
& Engineers  
• Business Owners  
• Environmental Contractors  
& Consultants |
| • Certificates of Completion at the Conclusion of the Course | • Ventilation Technicians  
• Architects  
• Individuals Preparing to Take a Certification Exam |

## Who Should Attend?

- 32 Hours of Instruction
- CM Credits
- BCSP Recertification
- Certificates of Completion at the Conclusion of the Course

- ACGIH®’s Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance
- Safety Professionals
- Compliance Officers
- Environmental Engineers & Designers

- Quantitative Industrial Hygiene: A Formula Workbook
- Maintenance Supervisors
- Business Owners
- Environmental Contractors & Consultants

- ACGIH® Velocity Pressure Method: Calculation Spreadsheet for Performing Calculations and Equations Including Ventilation System Design
- Ventilation Technicians
- Architects
- Individuals Preparing to Take a Certification Exam

---

### “The World’s Best FIV Course!”
Fundamentals in Industrial Ventilation & Practical Applications of Useful Equations

ACGIH® FIV Courses in 2020

4 ½ Days in Cincinnati, Ohio: $2,399

- Monday, March 30th – Friday, April 3rd
- Monday, June 8th – Friday, June 12th
- Monday, September 21st – Friday, September 25th
- Monday, November 16th – Friday, November 20th
Fundamentals in Industrial Ventilation & Practical Applications of Useful Equations

ACGIH® FIV “Road Courses”

2 ½ - 4 ½ Days Delivered to Your Location

World-Class Instructors Including:

~ Jonathan Hale  
~ Gregg Grubb  
~ Gerry Lanham  
~ Bob Shearer

~ Kirt Boston  
~ Dale Price  
~ Sergio Caporali  
~ Rafael Sartim

~ Pat Curran  
~ Bob Dayringer  
~ Matt Diestler
“The World’s Best FIV Course!”
## Strengthen Your Professional Profile

<table>
<thead>
<tr>
<th>Connect!</th>
<th>Volunteer!</th>
<th>Network!</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Industry Scientists, Researchers, Academics ...</td>
<td>Become a Committee Member to Develop, Disseminate and <strong>Define</strong> Vital Information to <strong>Your Scientific Field</strong></td>
<td>Stay on the Cutting Edge</td>
</tr>
</tbody>
</table>

### Opportunities to Contribute

Support the continued existence of ACGIH® TLVs® and BEIs®

- **Bioaerosols** Committee
- **Biological Exposure Indices** Committee
- **Industrial Ventilation** Committee
- **Threshold Limit Values for Physical Agents** Committee
- **Threshold Limit Values for Chemical Substances** Committee

*Subcommittees Include:*
  - **Chemical Selection**
  - **Communications/Education**
  - **Dust & Inorganics** (D&I)
  - **Hydrogen Oxygen Carbon Compounds** (HOC)
  - **Miscellaneous Compounds** (MISCO)

### Earn CM Points

- **Techniques**
- **Technology**
- **Solutions**
- **Training**
- **Industry Best Practices**

### Donate to the Sustainable TLV®/BEI® Program

- **Become a Committee Member!**

### Donate to the Foundation for Occupational Health and Safety (FOHS)

- **Define Your Science!**

- 2 CM Points from BCSP for 12 Months of Service; 1 CM Point from BGC for Chairs and 0.5 Point from BGC for Committee Members

---

**Donate to the Foundation for Occupational Health and Safety (FOHS)**

2 CM Points from BCSP for 12 Months of Service; 1 CM Point from BGC for Chairs and 0.5 Point from BGC for Committee Members

---

**Define Your Science!**
Collaboration with Industry Organizations

- **ACGIH®**
- **ABET**
- **ASHRAE**
- **BCSP**
- **IAQA**
- **OHTA**

**AIHA**
- Sponsor of American Industrial Hygiene Conference & Exposition (AIHce EXP)

**IEQ-GA**
- Full Member of the Indoor Environmental Quality – Global Alliance

**IOHA**
- Member Organization of the International Occupational Hygiene Association

**BGC**

- **ASSP**
- **NIOSH**
- **OSHA**

**Yuma Pacific-Southwest Section**
- ANNUAL MEETING
- REVIEW OF KEY IH ISSUES
- INDUSTRY REPORTS
- VALUABLE NETWORKING
- IMPACTFUL NEWSLETTER
AIHA: Representing the IH *Profession*

BGC: Representing EHS *Professionalism*

ACGIH®: Representing Occupational and Environmental Health, Industrial Hygiene, and Safety *Professionals*
DEFINE YOUR SCIENCE!
Invest in an ACGIH® MEMBERSHIP

ACGIH® advances the careers of professionals working in the occupational and environmental health, industrial hygiene, and safety communities interested in defining their science.

Educational & Professional Development Opportunities

Educational Benefits Package:
Earn ACGIH® CM Points to maintain Certified Industrial Hygienist (CIH), Certified Associate Industrial Hygienist (CAIH), Certified Safety Professional (CSP), Occupational Hygiene and Safety Technician (CHST), and Construction Health and Safety Technician (CHST) certifications.

- ACGIH®’s “The Action Level™” - Complimentary e-training, self-study, continuing education program. Earn up to 12 contact hours of CM credit and 1.2 recertification points per year.
- Alternate Registration — $200 Discount on Alternate EXP registration!
- Earn 18 CM CM credit and 1.5 BESP recertification points.
- AIHA PDUs — $50 Discount on Professional Development Courses — 1-Half Day PDC and 1-Three Day PDC.
- Recorded Ethics Training

Other Ways to Acquire Ethics Training: Maintain Certification and Develop Skills to Strengthen Your Professional Profile:

Services or credits? Members get discounts on ACGIH®-sponsored courses, e-Learning, symposia, workshops, and webinars.

ACGIH® offers:
- Webinars — Earn CIH CM credit and/or BESP recertification points
- Webinar Archives — Earn CM credit
- Webinar Test — Certificate of Completion
- Fundamentals in Industrial Ventilation & Practical Applications of Useful Equations Course — 32 hours of instruction to earn CIH CM credit and/or CSP recertification points.
- “The World’s Best CM Course”

Connect! Volunteer! Network! Opportunities to Contribute, Earn CM Points and Engage

Connect with industry scientists, researchers, academicians.

Volunteer: Become a Committee Member to develop, disseminate and define vital information to Your Scientific Field.

- Biosafety Committee
- Biological Exposure Indices Committee
- Industrial Ventilation Committee
- Threshold Limit Values for Chemical Substances Committee
- Miscellaneous Compounds (MSCO)
- Miscellaneous Compounds (MSCO)
- Threshold Limit Values for Physical Agents Committee

Network: Stay on the cutting edge of Techniques, Technology, Solutions.

Training, and Industry Best Practices.

Contribute: Support the continued existence of ACGIH® TLVs® and BEIs®

- Donate to the Sustainable TLVs®-BEIs® Program of the Foundation for Occupational Health and Safety.

Engage: Network with your colleagues in the field to help Define Your Science!

Publications and Resources to Help You in Your Field

ACGIH® members receive Complimentary and discounted publications as part of their membership, including a FREE copy of the renowned TLVs® and BEIs® Book every year.

- (1) Complimentary Annual TLVs® and BEIs® Book (electronic or printed format)
- (10) Complimentary 7th Edition Downoads of Documentation of the TLVs® and BEIs®
- (12) Complimentary online and print monthly issues of the Journal of Occupational and Environmental Hygiene (JOEH)

2020 Member Investment: Individual Professional Membership:

- Voting Member ($205)
- Regular Voting Member ($220)
- International Voting Member ($260)

Organizational Supporter: Membership:

- (5) Complimentary Annual TLVs® and BEIs® Books (electronic or printed format)
- (10) Complimentary 7th Edition Downoads of Documentation of the TLVs® and BEIs®
- (12) Complimentary online and print monthly issues of the Journal of Occupational and Environmental Hygiene (JOEH)

Join today at acgih.org/membership or call 513/424-2020.
What Scientific Leaders Say ...

Mike Ellenbecker, ScD, CIH; Immediate Past Board Chair ~ ACGIH®
“ACGIH® excels at translating data and actions into comprehensive knowledge.”

Shery Milz, PhD, MOD, CIH, FAIHA; 2017 & 2018 Board Chair ~ ACGIH®
“The scientific community for professionals looking to benefit worker and environmental health lies within ACGIH®.”

Torey Nalbone, PhD, CIH, FAIHA; 2014 & 2015 Board Chair ~ ACGIH®
“ACGIH® is THE toolbox for the I.H. practitioner.”

Don Weekes, CIH, CSP; 2018 – 2020 Board Member ~ ACGIH®
“Define your science and develop the art of communicating Industrial Hygiene by engaging with ACGIH®.”
FOLLOW US

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Twitter: @ACGIH
LinkedIn: ACGIH
Instagram: _acgih

#ACGIH  #DefineYourScience
Thank you for your consideration of supporting ACGIH®!

Frank Mortl III, CAE
Executive Director
ACGIH® - American Conference of Governmental Industrial Hygienists
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248-982-6179 (cell)
linkedin.com/in/frank-mortl-iii-cae
@frank_mortl