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.



<u>Agenda</u>

- 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 Pirectors



COL Mary S. Lopez, PhD, CPE (Ret.) (Chair)



Nancy E. Wilk, MHSc, CIH (Treasurer)



Jack Caravanos, DrPH, CIH (Director)



Michael J. Ellenbecker, ScD, CIH (Director)



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 Pirectors con't



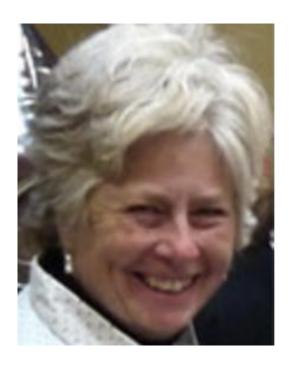
Donald M. Weekes, CIH, CSP (Director)



Frank Mortl III, CAE
(Executive Director)



ACGIH® Board Chair - Officer



- 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)

COL Mary S. Lopez, PhD, CPE (Ret.)

Chief, Occupational Therapist – Army
Manager, Automated Neuropsychological
Assessment Metrics (ANAM)

Director, Strategic Initiatives/360°

United States Army



ACGIH® Board Treasurer - Officer



- 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

Nancy Eva Wilk, CIH

Senior Consultant – Occupational Hygiene & OHS

Krivonosov Risk Management Consultants (KRMC)





- 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

Jack Caravanos, DrPH, CIH

Clinical Professor of Global and Environmental Health – College of Global Public Health

New York University





- 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

Michael J. (Mike) Ellenbecker, ScD, CIH

Professor Emeritus of Environmental & Occupational Hygiene
Director, Massachusetts Toxics Use
Reduction Institute (TURI)
University of Massachusetts Lowell





- 30+ Years of Government and Multi-Industry Experience
 - Medical Service Corps Officer: United States Navy
 - American Sugar Refining
 - Bayer CropScience
 - Marathon Petroleum
 - Whirlpool Corporation
- Executive Director, Environmental & Industrial Programs University of Alabama

Donald D. Elswick, CIH, CSP, CHMM, CIT

EHSS Trainer and Specialist

ELSMART Associates, LLC





- 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)





- 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

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





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

J. Torey Nalbone, PhD, CIH, FAIHA

Chair, Civil & Environmental Engineering and Construction Management Departments

University of Texas at Tyler





- 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 Pir.



- 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

Frank Mortl III, CAE

Executive Director

American Conference of Governmental Industrial Hygienists



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?



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

2020

TLVs® and BEIs®

Based on the Documentation of the

Threshold Limit Values

for Chemical Substances and Physical Agents



Biological Exposure Indices



Signature Publications

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 Librarywith DRM TitlesBundle Productswithin the EHS Field

Occupational & Environmental Health Products

Guidelines &Recommendations2020 Market-Ready Items

Digital Rights Management

Confirmed NewPublications & UpdatesLaptop, 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

ACGIH® Educational Benefits:

ACGIH®'s

"The Action Level!®"

AlHce Registration

AIHce PDCs

Recorded Ethics Training

Maintain CIH, CAIH, CSP, OHST & CHST Certifications:

- Complimentary At-Home, Self-Study,
 Continuing Education Program
- Earn Up To 12 Contact Hours of CM Credit
 & 1.2 Recertification Points Per Year
- **\$200 Discount** on AlHce EXP Registration
- Earn Up To 18 CIH CM credits
 & 1.5 BCSP Recertification Points
- \$50 Discount on Professional Development Courses
- 1-Half Day PDC & 1-Full Day PDC
- **Discounts** on ACGIH®-Sponsored Courses, e-Learning, Symposia, Workshops & Webinars
- Maintain Certification & Develop Skills to Strengthen <u>Your</u> Professional Profile

2020 ACGIH® Webinars: \$99 Each!

Computational Fluid
Dynamics: Fundamentals
in Industrial Ventilation

- DateMarch 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

Using the ACGIH® TLV® for Lifting

- Date October 21st
- 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

The ACGIH® Cold Stress TLV®:
Science & Use

- Date
 November 18th
- 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

Fundamentals in Industrial Ventilation & Practical Applications of Useful Equations

	What Do Students Receive?	Accreditation	Who Should Attend?
•	ACGIH®'s Industrial Ventilation: A Manual of Recommended Practice for Design, 30 th Edition	32 Hours of Instruction	Industrial HygienistsHVAC Engineers & DesignersPlant & Facilities Engineers
•	ACGIH®'s Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance	CM Credits	Safety ProfessionalsCompliance OfficersEnvironmental Engineers& Designers
•	Quantitative Industrial Hygiene: A Formula Workbook	BCSP Recertification	 Maintenance Supervisors & Engineers Business Owners Environmental Contractors & Consultants
•	ACGIH® Velocity Pressure Method: Calculation Spreadsheet for Performing Calculations and Equations Including Ventilation System Design	 Certificates of Completion at the Conclusion of the Course 	 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

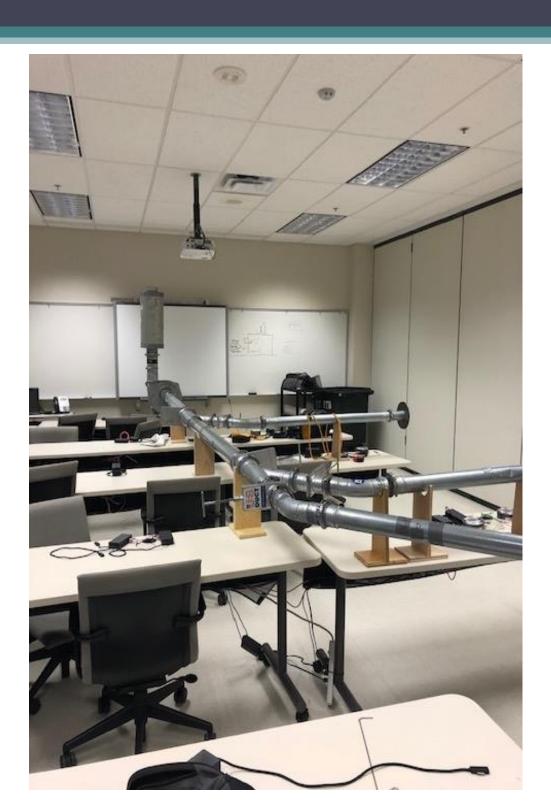
ACGIH® FIV "Road Courses"

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

Connect!	Volunteer!	Network!
With Industry Scientists, Researchers, Academics	Become a Committee Member to Develop, Disseminate and Define Vital Information to <u>Your</u> Scientific Field	Stay on the Cutting Edge
Opportunities to Contribute	Earn CM Points	and Engage
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) 	 Techniques Technology Solutions Training Industry Best Practices
Donate to the Sustainable TLV®/BEI® Program	Become a Committee Member!	Dialog with Your Colleagues in the Field
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 <u>Your</u> Science!

Collaboration with Industry Organizations



International Occupational

Hygiene Association

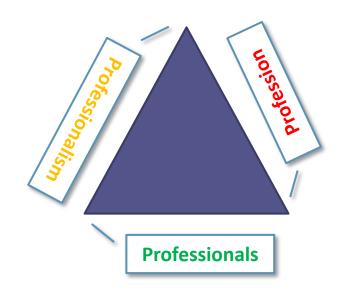
Indoor Environmental Quality

- Global Alliance

AIHA: Representing the IH <u>Profession</u>

BGC: Representing EHS <u>Professionalism</u>

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 All Your CM Points to maintain Certified Industrial Hygienist (CIH), Certified Associate Industrial Hygienist (CAIH), Certified Safety Professional (CSP), Occupational Hygiene and Safety Technicians (OHST), and Construction Health and Safety Technician (CHST) certifications.

- ◆ ACGIH®'s "The Action Level!®" Complimentary at-home, self-study, continuing education program. Earn up to 12 contact hours of CM credit and 1.2 recertification points per year.
- AIHce Registration \$200 Discount on AIHce EXP registration!
 Earn 18 CIH CM credit and 1.5 BCSP recertification points.
- Recorded Ethics Training

Other Ways to Acquire Ethics Training, Maintain Certification and Develop Skills to Strengthen <u>Your</u> Professional Profile:

Short on credit/points? Members get discounts on ACGIH®-sponsored courses, e-Learning, symposia, workshops and webinars.

ACGIH® offers:

- ♦ Webinars Earn CIH CM credit and/or BCSP recertification points
- ❖ Webinar Archives Earn CM credit
- ♦ Webinar Tests Certificate of Completion
- ◆ Fundamentals in Industrial V entilation & Practical Applications of Useful Equations Course – 32 hours of instruction to earn CIH CM credit and/or CSP recertification points: "The World's Best FIV Course!"



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

Connect: With industry scientists, researchers, academics, ...

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

- ◆ Bioaerosols Committee
- ◆ Biological Exposure Indices Committee
- ◆ Industrial Ventilation 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)
- ◆ 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 TLV®/BEI® Program of the Foundation for Occupational Health and Safety (FOHS)

Earn CM Points: Become a Committee Member! For 12 months of service, Chairs receive 1 point and Committee Members receive 0.5 point.

Engage: Network with your colleagues in the field to help Define <u>Your</u> 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
 Downloads of Documentation
 of the TLVs® and BEIs®
- (12) Complimentary online monthly issues of the Journal of Occupational and Environmental Hygiene (JOEH)
- ♦ 86% Discount on printed versions of JOEH
- ◆ 20% Discount on all ACGIH® Signature Publications
- FREE Shipping and Handling on all domestic publication orders
- ◆ Complimentary Today! Online Newsletter
- ◆ Complimentary Annual Reports of the Committees on TLVs® and BEIs®
- ◆ 20% Discount on individual Webinar Archives within the ACGIH® e-Library

2020 Member Investment

Individual Professional Membership:

- ◆ Voting Member (\$205)
- Retired Voting Member (\$50)
 Student Voting Member (\$30)
- Organizational Supporter Membership:
- ◆ Organizational Supporter (\$650)
- (5) Complimentary Annual TLVs® and BEIs® Books (electronic or printed format)
- (Unlimited) Complimentary 7th edition Downloads of Documentation of the TLVs® and BEIs®
- (12) Complimentary online and print monthly issues of the Journal of Occupational and Environmental Hygiene (JOEH)



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®."

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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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