

American Industrial Hygiene Association





National AIHA

- 10,600 Members
- Board of Directors
- Technical & Administrative Committees
- Special Interest Groups (SIGs)



Current AIHA Board - EC

- Lindsay Booher, President
- Cathy Cole, President - Elect
- Mike Brandt, Vice President
- Don Hart, Past-President
- Elizabeth Pullen, Secretary (Board Coordinator for Florida Section)
- Cindy Ostrowski, Secretary-Elect
- Allan Fleeger, Treasurer



AIHA Update and Laboratory Accreditation Program

Donald J. Hart, Ph.D, CIH
Past-President, AIHA





Current AIHA Board - Directors

- Dan Anna
- Ellen Clas
- Cindy Coe
- Barbara Dawson
- Kevin Gara
- Chris Jones
- Steve Lacey
- Zandra Walton
- Shelley Wheeling-Park



Local Sections

- 75 Local Sections
- Set own membership fees
- Run own programs
- Local Section Council
- AIHA contact is Thursa La
(703) 846-0768
tla@aiha.org



Local Section Benefits

- Leadership Workshop
 - February 27 - March 1, 2009 – Fairfax, VA
 - Also applies for student local sections
- AIHA website shows available resources
 - Other local section websites
 - Ideas generated at previous Leadership Workshops



Local Sections Council Task Force

- Quarterly calls with new officers
- Speakers Bureau
- 15% discount on AIHA products
- Collect LS dues and distribute back
- Implementation of MemberClicks
- Local Section Community
 - Enhance AIHA web site



Resources for Students and Early Career Professionals

- AIHA Foundation
- Future Leaders Institute
- Students and Early Career Professionals Committee



American Industrial Hygiene Foundation (AIHF)

- Established in 1981
- Distributed over \$1,000,000 in scholarships
- MIHS now has an endowed scholarship through the Foundation





Future Leaders Institute

- Open to members with < 15 years experience
- About 45 attendees plus thought leaders, advisory group members and AIHA staff
- Have completed 3 classes



Future Leaders Institute

- Many of the graduates are now serving as leaders:
 - On Students & Early Career Professionals Committee
 - On other AIHA committees
 - In local sections
 - On AIHA Board
- Every other year (odd-numbered years)



AIHA Alliances and Collaborations

- NIOSH
 - Renewed MOU in July, 2007
 - Meeting every 2-3 months
 - “Discoveries and Breakthroughs Inside Science”
- OSHA
 - Renewed in March
 - Sharing information on each other’s website
- ASSE
 - Renewed alliance in March, 2007
 - Meet yearly to discuss mutual goals



NIOSH Workshop

- 2008 NIOSH Dream (direct-reading exposure assessment methods) Workshop – November 13-14, 2008
- Research oriented
- Hilton Crystal City – Washington D.C.
- <http://www.team-psa.com/dream2008/main.asp>



Futurists Summit

- Held in Spring, 2008 at AIHA
- AIHA, ACGIH, AIH, ABIH
- Strategic priorities:
 - Development and harmonization of global standards of practice
 - Identification and harmonization of required skills and competencies for the professional practice of IH in the global community



Futurists Summit

- Strategic priorities (continued):
 - Increased participation to represent health in green and sustainability initiatives
 - Creation of a more collective professional voice and a more unified approach among U.S. based IH organizations
 - Re-vitalized professional education, training and lifelong learning in addressing required new competencies, skills and areas of specialization by leveraging best practice learning technologies which enable learning anytime, anywhere



News from the June/July 2008 Board Meetings

- Attendance at AIHce 2008 was 6000
- Creating an LLC for LQAP
- Newly formed Standards Council to provide direction for standards activities of importance to AIHA
- Re-design of AIH to have a more strategic focus



July Strategic Planning Meeting

- Recruiting and engaging student and early career professionals
- Clarifying and being more focused in international role and scope of activities
- Demonstrating value, return on IH programs, etc.
- Efficiently operating LQAP with appropriate international participation



Student and Early Career Professionals

- AIHA's efforts have resulted in considerable progress in assimilating students and early career professionals
- In depth review of activities has resulted in a slight shift in Board focus (more on college and grad students and less on K-12)
- Develop tracking mechanisms and metrics to measure success of efforts



International Role & Scope of Activities

- AIHA's international role will be focused on developing and expanding the profession of industrial hygiene through:
 - Dissemination of technical knowledge, education and training
 - International standards development
 - Retaining and expanding international membership
- The preferred approach to international activities will be via collaborations with IH organizations in the countries of focus.



International Activities

- Focus on 3 emerging countries
 - China
 - India
 - Mexico
- Continue cooperation with other countries
 - Australia
 - BOHS
 - Italy
 - Brazil
 - Romania/Poland
 - Malaysia



International Activities

- Formation of a standing Board committee (working group)
 - Board Chairperson
 - Board Coordinators for International Affairs Committee (IAC) and Practice Standards & Guidelines Committee (PS&G)
 - Chair of IAC
 - Chair of PS&G
 - AIHA Staff
 - Others as appropriate
- Coordinate all international activities



IH Value

- Coordinated by AIH
- Build on Value of IH Profession Study
- Creation of a “Value” manual by AIHce 2009
 - Patterned after AIHA’s *Strategy for Assessing Worker Exposure* book
 - Chapters tied to each segment of the flow chart and includes case studies, financial information and worksheets
- #1 priority for Academy for 2008-2009



AIHA's Lab Programs

- All programs are under the Laboratory Quality Assurance Program (LQAP)





History

- IH Laboratory Accreditation Program created more than 30 years ago
 - Good data is necessary to make good decisions
 - Laboratory sample results need to be accurate and defensible
 - Documentation of all laboratory areas is necessary



AIHA Laboratory Accreditation Programs

- Industrial Hygiene Laboratory Accreditation
 - Since 1974
- Environmental Lead Laboratory Accreditation
 - Since 1992
- Environmental Microbiology Laboratory Accreditation
 - Since 1998
- Food Laboratory Accreditation
 - Since 2001



Program Elements of a Good Laboratory

- Follow ISO 17025 requirements
- Appropriate facilities
- Qualified personnel
- Proper equipment and instrumentation
- Appropriate analytical methods
- Quality system in place
- Document control
- 3rd party accreditation



Facilities

- Adequate space and lighting
- Proper chemical storage and disposal
- Laboratory hood ventilation
 - Face velocities must be appropriate
 - Should be measured and recorded semi-annually
- Good housekeeping practices
- Mobile facilities need to meet criteria



Personnel

- Technical Manager
- Quality Assurance Manager
- Analysts
- Laboratory Information Management Systems (LIMS) Specialist
 - Recommended for laboratories with sophisticated data handling systems



Equipment and Instrumentation

- Equipment logs for each major item
 - Preventive Maintenance (PM)
 - Repairs
 - Performance checks
- Calibration logs
 - Calibration status checks
 - Procedures that indicate frequency of calibration status checks



Reagents and Standards

- Accuracy requirements to ensure the quality of testing
- Inspected, dated and initialed upon receipt
- Shall have expiration (or reevaluation) dates
- Must be properly controlled (security)
- Must have proper traceability



Test and Calibration Samples

- Chain-of-custody and sample receiving procedures
- Sample log that records:
 - Unique sample ID
 - Date
 - Client ID
- Associate blanks to proper samples



Quality of Test Results

- Determine accuracy and precision
- Use of blanks
- Acceptance limits
- Control charts



Analytical Methods

- Validated methods
 - NIOSH
 - OSHA
 - EPA
 - In-house
- Establish minimum reporting limits
- Calibration curves (minimum of 3 standards)
- QA check samples (every 10 or 20 samples)



Quality Assurance Program

- Reflects actual operation of laboratory
- QA Manual
 - Documents quality system used

QA Manual



- Table of Contents
- QA Manual maintenance & update procedures
- Organization & responsibility
- QA objectives & policies
- Personnel qualifications & training
- Sample materials & procedures
- Chain-of-custody/sample receiving/sample handling procedures
- Reagents & standards
- Equipment calibration & maintenance procedures
- Analytical methods
- Data reduction, validation & reporting



Document Control

- Analytical methods and procedures
- All personnel training records
- Record retention period
 - 3-5 years is typical
 - 10 years required for EPA lead program
- Electronic records
 - Appropriate security and access
 - Back-ups



3rd Party Accreditation

- Site assessments
 - Accreditation body/outside consultant
 - 1-3 day site visit using ISO 17025-based checklist
 - Deficiencies and areas for improvement
- Renewed every 2 years



Proficiency Analytical Testing (PAT) Programs

- Industrial Hygiene Proficiency Analytical Testing
- Bulk Asbestos Proficiency Analytical Testing
- Environmental Lead Proficiency Analytical Testing
- Environmental Microbiology Proficiency Analytical Testing
- Beryllium Proficiency Analytical Testing



Registry Program

- Asbestos Analysts Registry
- Asbestos Analysis Testing

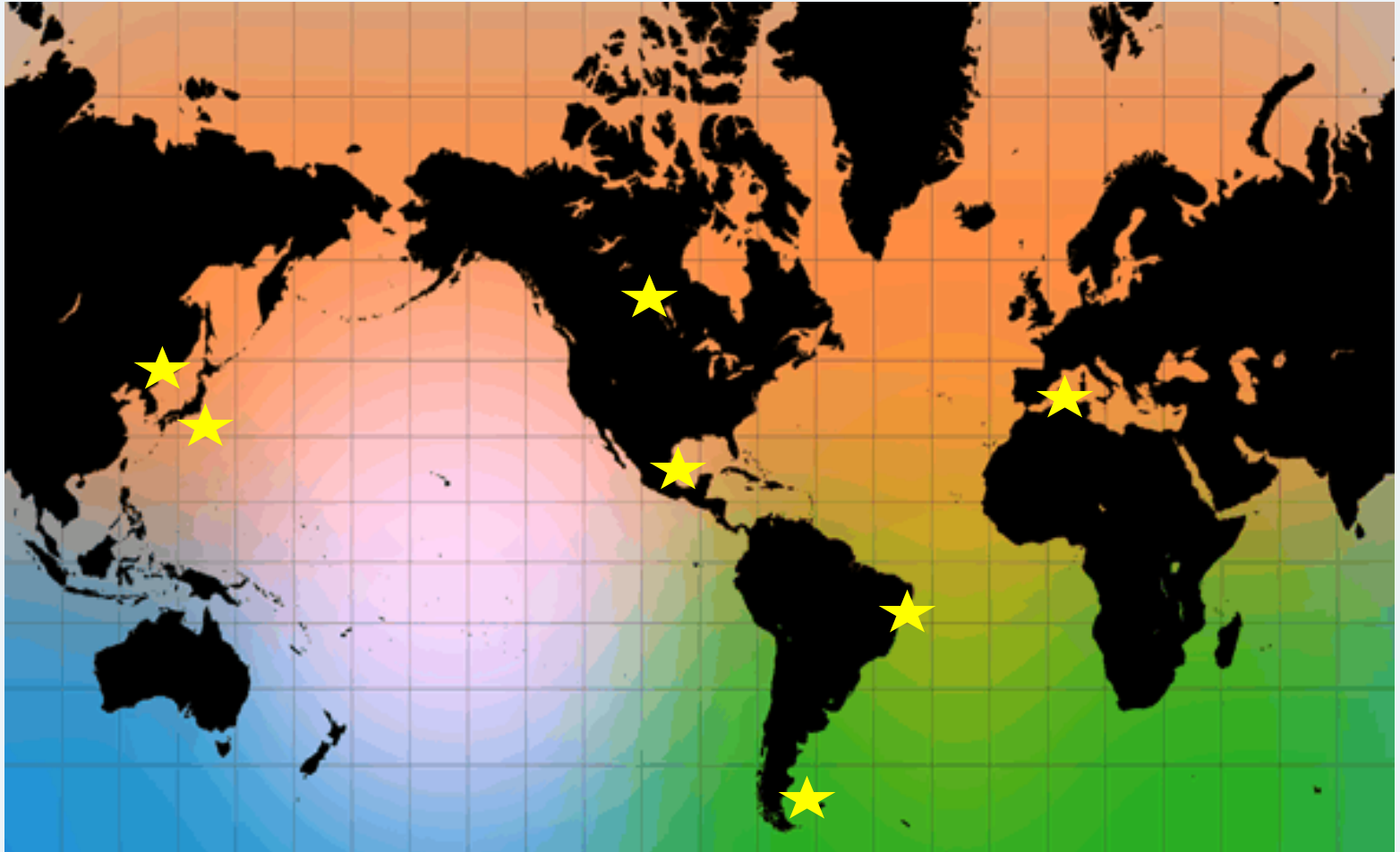




Analytical Accreditation Board (AAB)

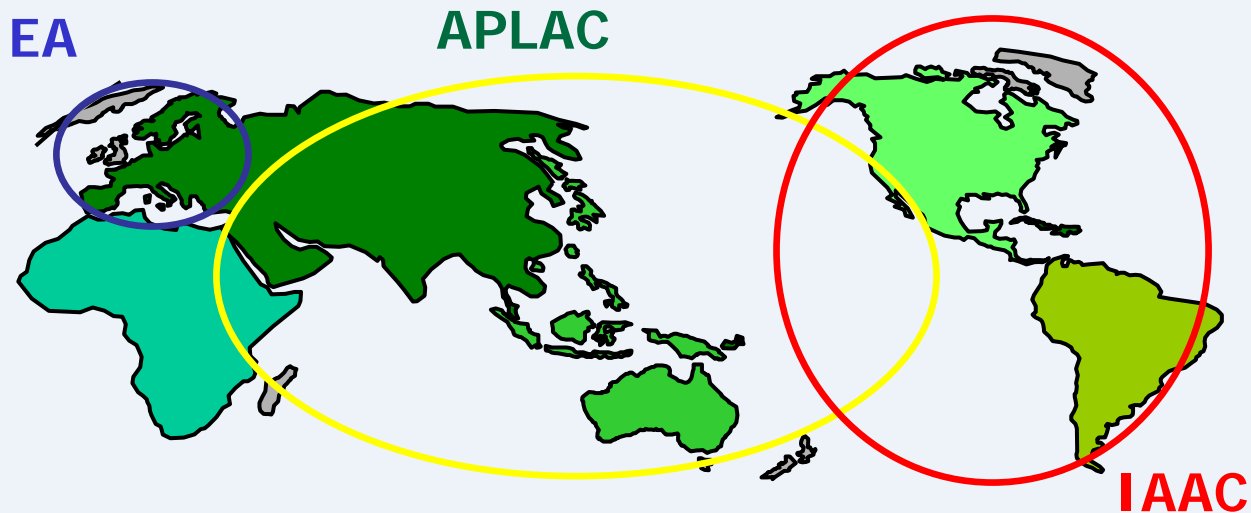
- 8 members elected by laboratory community
- 3 Officers (Vice Chair, Chair, Past Chair)
- 3 ex-officio members (AIHA Board Coordinator, AIHA Executive Director, Chief Site Assessor)
- Supported by the Technical Advisory Panel (TAP)

International Participants in AIHA's LQAP





The International Picture



- EA** European co-operation for Accreditation
- APLAC** Asia-Pacific Laboratory Accreditation Cooperation
- IAAC** Inter-America Accreditation Cooperation
- ILAC** International Laboratory Accreditation Cooperation



Formation of LQAP LLC

- Ability to respond quickly to market conditions and business opportunities
- Shields AIHA and its assets from liability
- AIHA will maintain control over this business entity
- The LLC will have formal agreements with AIHA and will purchase staff services



LLC Structure





Reminder!

- PCIH 2008 –
Tampa, Florida
November 8-11,
2008
- AIHce 2009,
Toronto, Canada
May 30 - June 4,
2009

