

**MICHAEL A. POLKABLA, CIH, REA**  
**BioMax Environmental, Inc.**  
**Senior Certified Industrial Hygienist, Principal**  
**1996 to Present**

## **PROFESSIONAL PROFILE**

Mr. Polkabila has over twenty five years of professional technical experience in the environmental health and safety (EH&S) field with emphasis in occupational safety and health, environmental regulatory compliance, exposure hazard assessment and industrial hygiene services. As BioMax's founder and Senior Certified Industrial Hygienist (CIH), Mr. Polkabila provides technical management and oversight of all industrial hygiene and environmental programs and services. Mr. Polkabila is responsible for the design, coordination, implementation, and quality assurance of BioMax Environmental's professional and technical capabilities and has been certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene and holds the right to the designation "Certified Industrial Hygienist" (CIH) under certification number CP7104. Mr. Polkabila has also been previously certified by the California Environmental Protection Agency (Cal/EPA) as a Class I Registered Environmental Assessor (REA) under certification number 05011.

A summary of Mr. Polkabila's professional and technical capabilities include the following areas of expertise:

- Certified Industrial Hygiene Services Including Worker Exposure Assessments and Industrial Hygiene Workplace Monitoring
- Clandestine Drug Lab Evaluations, Sampling Assessments, and Mitigation (Cleanup) Oversight for Methamphetamine and Opioid (Fentanyl and Carfentanil) Contaminants
- Cannabis Industry Consultation and Technical Support Pertaining to Permitting and EH&S Regulatory Compliance with Manufacturing, Distribution, and Growing Operations
- Expert Testimony and Legal Consultative Support Services
- Microbial Contamination Exposure Assessment and Evaluation Services
- Microbial Contamination Mitigation Protocol Development and Post Mitigation Clearance Verification
- Indoor Air Quality Investigations (IAQ) Investigations, Evaluations, and Sampling Assessment Services
- Residential, Commercial, and Community Environmental Contaminant Testing, Monitoring, and Sampling
- Hazardous Waste Operations and Emergency Response (HAZWOPER) Compliance Management
- Site-Specific Safety and Health Plan (SSHP) and Environmental Health and Safety Plan (EHASP) Development, Review, and Approval
- Hazardous Material Data Review (Air, Soil, Groundwater) Evaluations
- Environmental Health and Safety Program/Plan development and implementation
- Environmental Health and Safety Training (including custom and site-specific training)
- Environmental Regulatory Compliance Auditing and OSHA Compliance

- Construction Safety Management
- Respirable Silica Regulatory Compliance Including Sampling and Assessment Evaluations
- Lead and Asbestos Contaminant Assessment and Compliance Management
- Phase 1 and II – Real Estate Property Environmental Site Assessments (ESA) Review
- Emergency/Spill Response Project Oversight and Management
- Non-Ionizing Radiation (EMF) Evaluation and Monitoring Assessments
- Accident/Incident Investigation and Risk Management Consultation

Mr. Polkabila is particularly proficient in the "science and art" of risk communication through technical and non-technical writing, public speaking/presentations, expert witness testimony, and interaction with client management, employees, and the community.

## **PROFESSIONAL EXPERIENCE**

### **BioMax Environmental, Inc., Pinole, CA**

*Senior Certified Industrial Hygienist, Principal. Founder and Owner from 1996 to Present*

**(See Description Above)**

### **Harding Lawson Associates (HLA), Novato, CA**

*Senior Environmental Scientist, Regional Safety and Health Manager 1994 to 1996:*

Responsible for the safety management, oversight, and technical support for all operations and field activities in HLA's thirteen western regional offices. Developed and implemented HLA's Safety and Health Programs as well as developed and reviewed hundreds of Site-Specific Safety and Health Plans (SSHPs) for field construction and hazardous waste remediation operations and activities. Health and safety program responsibilities also included the performance of accident investigations, managing HLA's medical monitoring program, conducting hazardous waste site compliance audits, performing ergonomic and work station evaluations, and developing and conducting numerous training programs (e.g. 40 hour and 8 hour refreshers HAZWOPER training, , Permit Required Confined Space, Respiratory Protection, etc.). Other responsibilities included business development and project management of client specific projects ranging from multi-million dollar federal projects to smaller private industry projects involving industrial hygiene services.

### **Touchstone Environmental, Inc., Oakland CA**

*Health and Safety Program Manager 1993 - 1994:*

Responsible for industrial hygiene and OSHA compliance/regulatory expertise covering a wide variety of occupational disciplines. Duties include management of Touchstone's occupational and EH&S technical services group including industrial hygiene services, OSH regulatory compliance services, and project program management. Published author of OSHA compliance field guides and routinely performed comprehensive environmental and health assessment audits of multi-task facilities through hazard identification and effective risk communication. Provided industrial hygiene expertise through the development of sampling and exposure monitoring protocols, collecting and interpreting statistical analytical data, evaluation and analysis of environmental exposures to health hazards, and the development and implementation of control

procedures regarding these hazards. Also conducted regular EH&S worker training, and provided technical support on new and innovative hazard control and monitoring technologies.

### **Davy International, San Ramon, CA**

*Health and Safety Technologist 1993:*

Responsibilities as Davy International's corporate health and safety coordinator included conducting regular worker exposure monitoring for harmful exposures to airborne contaminants during Superfund cleanup site operations. Performed environmental health and safety compliance audits, health hazard assessments, and accident investigations for corporate and hazardous waste site activities to assure the continued protection of employees from exposures to hazardous substances and environments. Developed and managed a Personal Protective Equipment Program (PPE) for hazardous waste site personnel. Designed, developed, and implemented Davy International's corporate Environmental Health and Safety Program in compliance with federal and state environmental and OSHA requirements including a corporate International's Injury and Illness Prevention Program, Hazard Communication Plan, Emergency Preparedness Procedures (Emergency Action Plan), Fire Prevention Plan, and Hazardous Waste Operations and Emergency Response Program (HAZWOPER). Conducted specific health and safety related training for workers at hazardous waste cleanup sites including 40 Hour HAZWOPER, annual 8 Hour refresher training, Hazard Communication, and IIPP training. Also provided technical support for development, implementation, maintenance, and review of site specific health and safety plans for hazardous waste remediation projects and proposals throughout the United States.

### **ICF Kaiser Engineers, Oakland, CA**

*Environmental Specialist 1992:*

Responsibilities as an ICF Kaiser employee (as contracted through the United States Postal Service) in providing technical assistance and experience in risk assessment, hazard evaluation, and control strategies at a number of hazardous waste remediation/clean-up sites. Also managed exposure monitoring of workers to assure compliance with OSHA Permissible exposure Limits (PEL's) during remedial activities and surveying and sampling facilities for asbestos containing and lead containing materials during building renovation projects. Responsible for the performance and oversight of numerous hazardous waste surveys including exposure sampling of multiple facilities and real-estate properties. Conducted and reviewed Phase 1 and 2 environmental property assessments and oversaw third party subcontracts in five western states. Also provided technical counsel and recommendations regarding environmental concerns and liabilities as they relate to land development, acquisition, lease, and property transfers.

Also coordinated compliance with federal NEPA requirements regarding facility site selection, development, and property transfers. Implemented Permit by Rule and Storm Water Discharge Plan requirements and applications for hazardous waste generating facilities throughout California.

### **Independent Consultant**

*Environmental Health and Safety Consultant 1991:*

Performed environmental health assessment auditing, as an independent consultant, of employee workplaces for exposures to hazardous substances including physical, chemical, and biological

health hazards. Also prepared and implemented comprehensive Environmental Health and Safety Programs for Health Care Centers in San Francisco, California. These included Injury and Illness Prevention Programs, Hazard Communication Programs, Emergency Preparedness Plans, and Bloodborne Pathogen Exposure Control Plans.

### **Fisher Scientific and Amersham Corporation**

*Bio-analytical Technical Specialist 1986 – 1991:*

Provided technical expertise and consultation to sales and marketing teams regarding the proper selection and use of chemical and biopharmaceutical products. Conducted multiple training seminars and client support services regarding proper safety procedures involving the use of hazardous substances commonly found in the biotechnology field. Provided client information and consultation on innovative control technologies, improved laboratory handling techniques, monitoring equipment, and chemical hygiene protocols. Established waste minimization and inventory control computer tracking systems for the ICI Americas Richmond, CA facility and University of California Berkeley Life Sciences Departments. Conducted laboratory health assessment audits involving regulatory compliance, chemical hygiene, process analysis, hazardous materials management procedures, and exposure monitoring equipment. Provided criteria in the selection, use, and performance of personal protective equipment used during procedures involving physical, chemical, biological, and radiological hazards. Also provided technical training in bio-analytical procedures and methods used during polymerase chain reaction (PCR) techniques, DNA sequencing, pulse field electrophoresis, radioimmunoassay (RIA), as well as others.

## **EDUCATION**

Bachelor of Arts Degrees in Biochemistry/Molecular Biology, University of California, Santa Barbara, 1985

Bachelor of Arts Degree, Aquatic Biology, University of California, Santa Barbara, 1985  
Certificate Degree, Hazardous Materials Management, U.C. Berkeley Extension, 1992

## **PROFESSIONAL REGISTRATIONS, CERTIFICATIONS, AND AFFILIATIONS**

- Certified Industrial Hygienist (CIH), Core and Comprehensive Practice, American Board of Industrial Hygiene (ABIH) - Certification # CP 7104
- Previously certified as California EPA Registered Class 1 Environmental Assessor (REA) Certification # 05011
- Board Member (As appointed by Contra Costa County Board of Supervisors) - Contra Costa County Hazardous Materials Commission (2001-2004)
- Previous Chairman of the Contra Costa County Hazardous Materials Commission Planning and Policy Committee
- Active Full Member - American Industrial Hygiene Association # 127789 (AIHA) since 1993
- American Industrial Hygiene Association (AIHA) Opioid Responder Professional Working Group (Federal and California State)

- American Industrial Hygiene Association (AIHA) Cannabis Manufacturing Environmental Health and Safety (EH&S) 2018 Working Group (Federal and California State)
- American Industrial Hygiene Association Member Northern California Chapter since 1993
- Previous Board of Directors Member - Biological Safety Affairs Forum (BSAF)

## **SPECIALIZED TRAINING**

- OSHA 40 Hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training per 29 CFR 1910.120, current certification since 1991
- Hazardous Waste Operations and Emergency Response Supervisory training
- Hazardous Materials Transportation, HM 126F, US Department of Transportation
- Permit Required Confined Space Entry Procedures
- Certified Lead Professional with the California Department of Health Services
- Unexploded Ordnance Recognition and Avoidance, UXB
- Radiochemical Principles and Techniques, Amersham Corporation
- Preliminary Assessments/Site Investigations, US-EPA Region IX
- Diagnosing and Mitigating Indoor Air Quality Problems, IEE, University of Tulsa
- Ergonomic/Carpal Tunnel Syndrome Evaluation and Control Methodologies
- CPR/First-aid certified

## **FACULTY / TEACHING EXPERIENCE**

**University of California's Center for Occupational and Environmental Health (COEH).** *Comprehensive Review of Industrial Hygiene* - A five-day course focusing on the fundamentals rubrics of Industrial Hygiene for students preparing to take their exams in the comprehensive Practices of Industrial hygiene through the American Board of Industrial Hygiene (ABIH).

**Solano Technical College:** Faculty member of Solano College's Trade and Technical Division. Teaching semester courses entitled: *Introduction to Industrial Hygiene* and *Organization and Administration of Safety Programs*. Courses focus on the practical applications of industrial hygiene strategies and safety management issues surrounding the public and private industry sectors.

**University of California's Center for Occupational and Environmental Health (COEH).** *Fundamentals of Workplace Safety* – Faculty member participating in presentation of two day course focusing on the historical and current practices employed in controlling worker exposures to hazardous physical and chemical substances.

**University of California Berkeley Extension:** *Management and Administration of Health and Safety Programs* - A two day intensive course focusing on the practical aspects of identifying, developing, and managing effective health and safety plans required in the workplace.

**University of California Berkeley Extension:** *Advanced Environmental Law* – Lecturer during a four day intensive course presenting a comprehensive framework for evaluating

and interpreting hazardous materials and worker protection laws, as well as detailed reviews of specific regulatory requirements.

**University of California Berkeley Extension:** *Hazardous Materials Management, Hands on Compliance I and II* - A series of classes covering compliance strategies and "hands-on" implementation techniques designed to satisfy environmental health and safety (EH&S) requirements. Particular emphasis given in the development, implementation, and maintenance of corporate EH&S programs.

**University of California Santa Cruz Extension:** *Hazardous and Toxic Materials Regulatory Framework* - A four day intensive course over viewing hazardous materials and waste regulations and requirements on a federal, state, and local level.

**University of California's Center for Occupational and Environmental Health (COEH).** *Pesticide Control strategies and Personal Protective Equipment* - A two day course focusing on the hazard controls and health and safety issues anticipated during the remediation of sites and facilities which have been impacted by pesticide contamination.

**Hazardous Waste Operations and Emergency Response (HAZWOPER).** Mr. Polkabila regularly develops and conducts client specific HAZWOPER training and related hazardous material courses. Such training includes 40-hour HAZWOPER, 8-hour Supervisor, 8-hour Refresher courses.

**Client Specific Safety and Health Related Technical Training.** Additional training courses developed and presented by Mr. Polkabila include:

- Opioid Assessment and Cleanup of Contaminated Sites
- Microbial Assessment and Mitigation Strategies
- Indoor Air Quality Maintenance and Protection
- Methamphetamine Drug Lab Contamination Assessment and Cleanup
- HAZWOPER 40-hour, 24-hour, and 8-hour Refresher
- Silica Exposure and Assessment Strategies
- Permit Required Confined Space
- Lead and Asbestos Awareness Training
- Respirator Protection Program Safety (including Fit-Testing)
- Personal Protective Equipment
- Indoor Air Quality Management
- Lockout Tagout Procedures
- Bloodborne Pathogen Exposure Control
- Hazard Communication
- Injury and Illness Prevention Program
- Emergency Action/Fire Prevention Programs
- Spill Response and Mitigation

## **PUBLICATIONS AND TECHNICAL PRESENTATIONS**

Author of Worker Protection/OSHA chapters of environmental compliance manuals produced by Touchstone Environmental, Inc. and published through Specialty Technical Publishers Inc. These manuals are designed to aid readers of various backgrounds and responsibilities in the particular requirements and strategies necessary in to achieve and maintain compliance with federal, state, and local environmental regulations. Publications include the following:

- Environmental Compliance in California: The Simplified Guide
- Environmental Compliance: A Simplified National Guide
- The Complete Guide to Hazardous Materials Enforcement and Liability (DA Manual)
- Toxics Program Commentaries (for twelve States)

Selected technical presentations have included:

**Opioid Epidemic and EH&S Impacts Law Enforcement, First Responders, Cleanup Personnel, and Inspectors** – Performed a series of technical training presentations to impacted personnel and regulatory agencies including County Health Departments, Fire Districts, CUPA authorities, Law Enforcement. Also presented to American Society of Safety Engineers (ASSE) of Northern California and Sacramento Chapters

**American Society of Safety Engineers (ASSE) San Francisco Chapter** – Construction Health and Safety Technician (CHST) Exam preparatory course. Industrial hygiene Topics including Lead, Silica, Asbestos, PPE, Radiation, Lasers, Noise, Respiratory Protection, Heat Stress, Ventilation, Ergonomics, and Microbial Contaminants

**American Society of Safety Engineers (ASSE) - Crystalline Silica Health Hazards in Construction.**

**American Industrial Hygiene Association (AIHA).** Current Practices in Methamphetamine Assessment and Cleanup. Keynote presenter/speaker

**County of Santa Clara Department of Environmental Health.** Clandestine Methamphetamine Lab Awareness Seminar Keynote presenter/speaker

**Department of Toxics Substances Control (DTSC).** AB1078 Methamphetamine Contaminated Property Cleanup Act of 2005 Implementation Clinics presented in Los Angeles and Sacramento Current Practices in the Assessment and Control of Contaminated Sites.

**Environmental Justice Drug Lab Pilot Project.** Advisory committee member to the Department of Toxics Substance Control regarding setting appropriate assessment and cleanup procedures pertaining to methamphetamine contaminated properties.

**Property Management Associations and Real-Estate Advisory Group.** Strategies for the recognition and proper management of microbial contaminants found within real estate properties.

**Residential Home Builders Associations.** Management of microbial (Mold) contaminants within new and existing residential home constructions

**Business Owners and Managers Association (BOMA).** Fundamentals of Indoor Air Quality; and Current Issues in Ergonomics.

**International Facilities Manager's Association (IFMA).** Current Strategies for Managing Indoor Air Quality.

**Concrete Modification Contractors Association (CMCA).** Health and Safety Issues Surrounding the Management of Lead In Construction.

**Construction Contractors:** Management of Indoor Air Quality through the Design and Selection of Building Materials.

**Alburger, Basso de Grosz, Inc. Insurance Broker** Risk and Loss Control Management in the Workplace.

**S. J. Amoroso Inc.** Managing Lead and Asbestos on Construction Projects and in the Workplace.

**Engineering Contractors Association (ECA).** Mold Awareness Training, Lead Hazard Awareness within Construction Projects and in the Workplace, Respiratory Protection.

**American Welding Society.** Hazard Awareness and Safety Training and EH&S impacts during welding and machine shop operations.

**Construction and Demolition Contractors.** Lead in construction compliance and lead awareness training during demolition activities for site - specific activities.

**Microbial Restoration Contractors.** Microbial contaminant awareness training and safety procedures/methods employed during microbial clean-up and abatement activities.