

# Dean Calhoun

CIH, President, and CEO

## Executive Summary:

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Dean Calhoun is a certified industrial hygienist with over 29 years of professional experience in occupational toxicology, occupational health and safety, and industrial hygiene. He has significant experience in exposure assessment practice and methodologies, OSHA regulatory issues, potent compound safety, environmental health and safety auditing, and EH&S management systems.

## Education:

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- 2002     **Masters in Environmental Policy & Management**, University of Denver
- 2002     **Masters in Technology Management**, University of Denver
- 1985     **B.Sc. Petroleum Engineering**, University of Wyoming

## Work History:

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- 2002 – Present     **President and CEO, Affygility Solutions, LLC**
  - Co-authored over 500 occupational exposure limit and acceptable daily exposure limit monographs for active pharmaceutical ingredients.
  - Performed a potent compound safety audit at a large active pharmaceutical ingredient (API) manufacturer in Amman, Jordan.
  - Performed a potent compound safety audit at a medical device company in Minneapolis, MN.
  - Performed a potent compound safety audit at a pharmaceutical company in Cambridge, MA.
  - Performed potent compound safety audits at 3 locations nationwide for a pharmaceutical contract manufacturer.
  - Performed a potent compound safety audit of a distributor of APIs to compounding pharmacies in Alabama.
  - Performed workstation ergonomic evaluations at a software development company in Colorado.
  - Conducted numerous industrial hygiene monitoring projects at pharmaceutical manufacturing facilities.

- Perform numerous containment validation projects at pharmaceutical contract manufacturing facilities.
- Performed third-party EHS audits of medical device facilities.
- Performed a potent compound safety audit and containment validation project at a pharmaceutical contract manufacturer in Irvine, CA.
- Provide ongoing EHS support to a medium-size pharmaceutical company.
- Developed and conducted an online webinar series for presentation to over 40 people at a contract manufacturing facility in the United Kingdom.

1995 - 2002

**Associate Director, EHS, Gilead Sciences, Inc.**

- Performed numerous corporate EHS audits of pharmaceutical, biotechnology manufacturing facilities and laboratories.
- Chaired the global EHS steering committee used to assess corporate EHS performance and develop global EHS standards and guidelines.
- Provided oversight on the development of occupational exposure limits for active pharmaceutical ingredients.
- Development and implementation of EHS management systems.
- Emergency response team incident commander.

1993 – 1995

**Senior Industrial Hygienist, Rust Environment & Infrastructure**

- Provided a variety of EHS services for large corporate clients including Apple Computer, U.S. DOD, Samsonite Luggage, United Technologies, Waste Management of North America, Nexstar Pharmaceuticals, Geneva Pharmaceuticals
- Conducted dozens of Phase I Environmental Assessments for nation-wide clients.
- Completed biennial hazardous wastes reports, toxic release inventory reports, and Tier II reports for large national clients.
- Performed industrial hygiene monitoring on a variety of projects including luggage manufacturing, computer and printed circuit board manufacturing, secondary aluminum smelting, metal plating, pharmaceutical manufacturing, coal-fired power plants, and communication equipment manufacturing.
- Performed OSHA HAZWOPER training for a variety of clients throughout the nation.

1993 – 1995

**Environmental Compliance and Safety Coordinator, Rust Environment & Infrastructure**

- Reduced OSHA recordable injury frequency by 85% by developing and implementing EH&S programs including training of supervisors and employees, conduct of monthly employee safety meetings, chairing safety committee, and enforcement of EHS policies.

- Conducted environmental compliance activities, including supervising and training EHS technicians to conduct facility inspections, lab packing of hazardous wastes, and chemical inventory control. Provided coordination and oversight of hazardous wastes packaging, disposal, and recordkeeping.
- Performed industrial hygiene monitoring for hexavalent chromium, welding fumes, volatile organic compounds, nuisance and respirable dust, wood dust, asbestos, and hydrogen sulfide.

### **Professional Certifications:**

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#6117      Certified Industrial Hygienist

### **Professional Certifications:**

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07/2012      Elected as President of the Front Range American Biological Association

### **Memberships to Professional Societies:**

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- American Industrial Hygiene Association
- British Occupational Hygiene Society
- Front Range American Biological Safety Association
- International Society of Pharmaceutical Engineers
- National Association for Environmental Management

### **Publications:**

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- Calhoun, D., Coler, A., and Nieuwsma, J. Strategies for Preventing Occupational Exposure to Potent Compounds. Toxicology Mechanisms and Methods. May 2010
- Calhoun, D. and Nieuwsma, J. Design and Implementation of an Effective Potent Compound Safety Program. Contract Pharma. 9(8): 80-90, October 2007.

### **Presentations:**

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- Calhoun, D. Risk Management & Industrial Hygiene: Preventing Cross- contamination and employee exposure in the context of HPAPIs. Workshop presentation at the High-Potency Active Pharmaceutical Ingredient (HPAPI) conference. July 13th, 2015 Boston, MA.
- Calhoun, D. Hacking EH&S. Roundtable presentation at the American Industrial Hygiene Conference & Exposition. May 30 – June 4th, 2015. Salt Lake City, Utah.

- Calhoun, DM. Introduction to Potent Compound Safety. Presented to Hikma Pharmaceuticals, Amman, Jordan. May 2014.
- Calhoun, DM. Risk Assessments – The Forgotten Art. Workshop presented to the World HPAPI Summit. Philadelphia, PA May 28th, 2013.
- Calhoun, DM. Discussing criteria for categorizing potent drugs and understanding their potency levels to identify appropriate facility design requirements. Presented to High Potent Drugs 2013. Mumbai, India. January 23rd, 2013. Calhoun, DM. EHS Auditing of High Potency Facilities. Presented to the World HPAPI Summit. Philadelphia, PA. June 27th, 2012.
- Calhoun, DM and Nieusma, JL. Recent Enforcement Actions involving Pharmaceutical Wastes presented to the Occupational Toxicology Roundtable. Oct. 5th, 2009.
- Calhoun, D.M. Decommissioning of a Beta-Lactam Pharmaceutical Development Facility. Presentation at the American Industrial Hygiene Conference and Exposition. June 1st, 2009.
- Calhoun, D.M. Environment, Health and Safety Issues in the Pharmaceutical Sector. Presentation to the American Institute of Chemical Engineers Rocky Mtn. Chapter. Jan. 21st, 2003.
- Gilead Sciences' Environmental Health and Safety Management System. Presentation for USEPA Region VIII. October 2001.
- Environmental, Health & Safety in the Biotechnology Industry: A Leadership Approach. Presentation to the Colorado Biotechnology Symposium. 1998.
- Environmental, Health and Safety Auditing. Presentation at the National Safety Council Congress & Exposition. Dallas, TX. 1995.

# The Board for Global EHS Credentialing® (BGC®)

through its vested authority hereby confirms that

## Dean Calhoun

has met all applicable requirements such as education, experience, examination, and on-going maintenance, set forth through the BGC's American Board of Industrial Hygiene® (ABIH®) credentialing division for certification in Comprehensive Industrial Hygiene Practice and is thereby conferred the credential of

## Certified Industrial Hygienist® (CIH®)

The aforementioned individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of this credential, provided that it is neither suspended nor revoked and is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.



Certification Number: CIH-CP 6117

Award Date: Nov 24, 1993

Expiration Date: Jun 01, 2030

Joseph B. Cotier, CPEA  
Chair of the Board of Directors



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for information.

J. David Rozsa, FASAE, CAE, ICE-CCP,  
ACA Executive Director