



FORENSIC APPLICATIONS CONSULTING TECHNOLOGIES, INC.

Synopsis of Résumé
Caoimhín Pádraig Connell
Forensic Industrial Hygienist
(Curriculum vitae available upon request)

Synopsis

Caoimhín P. Connell has been continuously practicing Industrial Hygiene in Colorado for 23 years and meets the definition of Industrial Hygienist as specified in Colorado Revised Statutes §24-30-1402. The majority of Mr. Connell's Industrial Hygiene work has been related to toxicology and assessment of human exposures to chemicals, microbial entities, sound, ionizing and nonionizing radiation, ergonomics, and physical hazards. Prior to entering the Industrial Hygiene field, Mr. Connell had over ten years experience as an analytical chemist in a variety of laboratories in the US and Europe. The majority of Mr. Connell's laboratory experience has been inorganic analytical chemistry, in the mining industry, food industry and in soils chemistry.

Experience

Primary Role

2003- To Present

Forensic Applications, Inc.

Forensic Industrial Hygienist

Examples of Recent & Current Projects

- Welding fumes and sound exposure assessment in large fence manufacturing industry
- Human exposure assessment and toxicological risk assessment to pyrethrins/pyrethroids in a residence
- Epidemiological and risk assessment to asbestos in residential environment
- State of Colorado, Department of Health, Clandestine Laboratory Working Group (Foundational author of Regulatory Sampling and Analysis assessment for Meth Labs)
- Helium tracer gas contaminant migration study in the Foothills Laboratory (University Center for Atmospheric Research, Boulder, Colorado)
- Indoor mould assessments for the National Center for Atmospheric Research
- Over 300 indoor mould and microbial assessments for general residents and businesses
- Chemical exposure assessment of hydrocarbons during a roofing operation
- ASTM International D22.05.08 Indoor Air Quality Committee Sampling and Analysis of Moulds
- Fungal evaluation of a new 56 unit housing complex (construction defect litigation)
- Contract Industrial Hygienist for the US National Center for Atmospheric Research
- Member of the American Industrial Hygiene Association Clandestine Drug-lab Group
- Toxicological assessment of catastrophic mercury contamination in a medical office
- Evaluation and assessment of acanthamoeba in a residential water system
- Toxicological body burden modeling and illegal drug, chemical and mould exposure resulting in death of a child
- Ergonomic evaluation of computer workstations at a mortgage company
- Preparation of an HASP/SHERP for potassium permanganate well injection remediation of vadose zone tetrachlorethylene

- Toxicological assessment of monocyclic terpenes as fugitive emissions into a structure through vadose water
- Chemical exposure assessment in a commercial marijuana grow and cocaine house
- Chemical Exposure Assessment of a methlab in a 21,000 square foot educational facility.
- Evaluation of soil borne explosive gases at a construction site adjacent to a landfill
- Risk and Property Assessments of Meth-labs (over 170 performed for property owners, Realtors, Federal Government and Insurance Carriers)
- Expert witness (Plaintiff and Defense) in litigation concerning mould exposures
- Perchloric acid explosion hazard & toxicological assessment in US Gov Research Lab
- Human exposure/risk assessment/ OSHA Compliance organic compounds in an office
- Expert witness for plaintiff in litigation concerning Bacterial exposures in Apt Bldg.
- Toxicological assessment for hard metal product, western Canada
- Microbial investigations following a sewer loss in an elementary school, a restaurant, a multimillion dollar private residence, others
- Expert witness for defense in sodium sequicarbonate exposure at a rail yard facility
- Expert witness (Plaintiff) regarding indoor air quality mitigation issues.
- HIDTA Certified Meth Lab instructor, instructor for Colo Dept of Criminal Justice
- Toxicological body burden pharmacokinetic modeling of inhaled EtOH during a criminal investigation
- Microbiological degradation assessment of TPHs in Kuwaiti oil fields
- Preparation of trade secret MSDSs for proprietary cleaning products
- Laboratory fume hood assessments for an educational facility of the Federal Government
- Evaluation of Bacterial additives in an hydrocarbon degradation product

May 2002- To Present

Park County Sheriff's Office

Commissioned Deputy Patrol Division, Reserve

- General police work, criminal investigations, rough terrain manhunts, forensic applications of industrial hygiene in criminal investigations and explosive atmospheres, general patrol, traffic enforcement, civil process, DUI investigations (NHSTA SFST Certified), property theft, crimes against children, etc. Certified in various aspects of law enforcement, and providing training in Active Shooter, Clandestine Drug Lab issues, and other areas. Other agency assists include toxicological pharmacokinetic modeling for Boulder Police Department; methlab identification for USFS, etc. *Active Shooter* S.O.R.T. training; State of Colorado; Colorado Police Corps, Colorado Division of Criminal Justice (Sniper and Hostage Situations)

1987- 2003

Chemistry & Industrial Hygiene, Inc.

Senior Industrial Hygienist, Radiation Safety Officer

Examples of Projects

- Performed indoor mould and Bacterial assessments in several hundred residences and businesses
- Developed an extensive fungal database
- On-site industrial hygienist various Superfund CERCLA/SARA and NPL sites across the US for various actions involving PCBs, dioxins, hydrazine, furans, heavy metals, beryllium, and asbestos. Prepared S.H.E.R.P.s and H.A.S.P.s for these sites. Including:



- Broderick Wood Products Superfund Site, Colorado
- Submerged Quench Incinerator at the Rock Mountain Arsenal, Colorado
- Johnson Lumber, Katy TX
- Kellogg Site, Kellogg ID
- Provided training to ABIH Certification candidates through the AIHA
- Conducted personal and area air monitoring and laboratory analysis of various air contaminants using NIOSH, OSHA, MCAWW and EPA series protocols.
- Guest Lecturer in Risk and Toxicology, Denver University (Masters Program Environmental Policy).
- Performed several hundreds of IAQ investigations (chemical, microbial, radiation and comfort) for Federal (Expert witness), State and local governments, and other "Sick Building Syndrome" related issues involving moulds, Bacteria, and a variety of other insults.
- Conducted radon gas endangerment study for the German Government in Grafenwöhr, Germany.
- OSHA HazWoper Certification Trainer (including courses taught at Denver University, Rock Mountain Arsenal, Adjunct professor RRCC, Golden, CO)
- Investigated clandestine methamphetamine labs. Assisted local agencies and governments in identification and quantification of hazards associated with the labs.
- Performed proprietary sound modeling and noise investigations for the Federal Bureau of Investigation in conjunction with US Department of Corrections.
- Developed qualitative and quantitative mathematical airborne dispersion models for CO₂, asbestos, DMF, and non-specific hydrocarbons.
- Developed a laboratory fume hood evaluation protocol.
- Lead instructor at Red Rocks Community College for approximately 3 years, and at-large trainer providing classes on:
 - Fundamentals of Toxicology
 - Fundamentals of Radiation Safety and Radiation Toxicology
 - Air Monitoring and Analysis
 - Ergonomics
 - Respiratory Protection
 - Personnel Protection Equipment
 - Hazardous Waste Site Management and Control
 - Confined Space Entry Procedures
 - TSCA II Approved Classes
 - Fundamentals of Risk Assessment
 - OSHA Hazardous Waste Regulation
 - Noise Exposure
 - Heat and Cold Exposure
 - Environmental Regulations
 - Drum Handling and Sampling
- Expert witness for litigation in ergonomic, and toxic tort (toxicological aspects of asbestos, microbiological, fugitive emissions, smoke migration and chemical exposure cases).
- Performed ELF/EMF electromagnetic surveys for public and private industry
- Conducted mock OSHA inspections for heavy industry.
- Microbial investigations following sewer losses in storage facilities, private residences, government buildings, general industry.
- Team leader for environmental health and safety audit for over 100 U.S. Geological Survey laboratories.
- Conducted ergonomic assessments for industry and ergonomic training for Veterans Administration Medical Center.



- Conducting sound exposure assessment analysis, modeling and isoplethic mapping for heavy industry.
- Prepared proprietary and general M.S.D.S.s for various U.S. and foreign companies.
- Conducted radiological risk audit for radiopharmaceutical therapy provider.
- Team Leader for health and regulatory compliance audit for several medical laboratories for the Veterans Administration Medical Center including assessment of bloodborne pathogen exposure.
- Team leader for health and safety audit of several laboratories in a large metropolitan waste water treatment facility.
- Conducted exposure assessment to silica, heat, noise, lead, and solvents for employees of a heavy industry facility.
- On site Industrial Hygienist and Site Radiation Safety Officer on two separate remediation projects involving large quantities of alpha and gamma emitters.
- Performed AHERA style asbestos inspections in Rocky Mountain States
- Asbestos abatement over site for US Department of Commerce, US Bureau of Prisons, Denver Public Schools, US Department of Defense (USAF, US CoE, Dept. Army), Jefferson County Public Schools, Adams County Public Schools, Denver Health and Hospitals, American Telephone and Telegraph, and others)
- Heavy metals and sound exposure monitoring at elevated altitude mining operations
- Provided OSHA compliant Confined Space Entry Training to US Bureau of Prisons, Colorado Public Service Company, Rock Mountain Arsenal, and others.

1987

Associate Chemist

CORPEX, Inc., Golden, Colorado

Project manager and chief analytical chemist using S.W. 846, ASTM, NIOSH, MCAWW and RCRA analysis protocols for atomic absorption, ion chromatography, inductively coupled plasma emission spectroscopy and a variety of wet chemical methods. Established QA/QC protocol for the inorganic section.

1986-1987

Analytical Technician

Colorado School of Mines Research Institute

Golden, Colorado

Chemical analysis of blood, urine, faeces, organic and inorganic materials for heavy metals, cyanides and other analytes using ion chromatography, atomic absorption spectroscopy (flame, hydride, and graphite), UV and visible spectroscopy and various classical wet chemistry methods.

Developed a new graphite furnace atomic absorption method for analysis of lead in human blood using Zeeman correction and specific atomic spectral line correction. Developed new ion chromatography methodology for cyanide speciation and thiocyanide analysis. Established standard operating procedures and training of personnel.

1981-1986

Laboratory Technician

Hazen Research, Golden, Colorado

Analytical bench chemistry performing analysis on a variety of organic and inorganic materials. Analysis of materials using state-of-the-art and classical techniques. Primary instrumentation

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included Leco sulfur and carbon analyzers, atomic absorption spectrophotometry, fluorometry, etc. Research technician in mineral beneficiation (geochemical) applications. Supervised the fire assay laboratory for approximately 2-1/2 years. Performed microbiological bench testing using *Thiobacillus ferrooxidans*, cyanidation, etc.

1979-1981

Geochemist

Mercury Analytical, Ltd.

Limerick, Republic of Ireland

Helped establish and operate a small analytical facility equipped with AAS (hydride generation, flame and Delve's cup and graphite furnace), fluorometry and wet chemistry capabilities.

Elemental analysis of mining related products, including gold, silver, uranium, barium, and other commercial minerals and products.

1979

Laboratory Technician

CDM Limnetics, Inc., Denver, Colorado

Chemical analysis of soils and vegetable matter for environmental and mining related industries.

Determination of CODs, BODs, cation exchange capacities, soil classifications, clay swelling parameters, EDTA metals chelation, potential acidity, particle size distribution analysis in soils, (hydrometer method, and sieve methods) elemental analysis using atomic absorption spec, and other wet chem methods.

1978-1979

Laboratory Technician

General Foods (Ireland) Ltd.,

Dublin, Republic of Ireland

QA/QC laboratory performing a variety of tests on raw ingredients and finished food products including racimization rates of sugars, crystal identification, tasting, Karl Fischer titration moisture contents, etc., specific ion electrode methods of standard additions, particle size analysis, CO₂ contents of bulk crystalline sugar.

1977

Thornton Police Department

Thornton, Colorado

Ordinance Enforcement Officer

Enforcement of municipal ordinances, evidence/custody technician.

1975-1977

Laboratory Technician (Part-time)

CDM Limnetics, Denver, Colorado

Chemical analysis of soils and vegetable matter for environmental and mining related industries.

Determination of CODs, BODs, cation exchange capacities, soil classifications, clay swelling parameters, EDTA metals chelation, potential acidity, particle size distribution analysis in soils, (hydrometer method, and sieve methods) elemental analysis using atomic absorption spec, and other wet chem methods.



1973-1975

Laboratory Technician (Part-time)

CDC Laboratories, Boulder, Colorado

Performed sample preparation and elemental analysis on mineral samples using atomic absorption spectrophotometry and classic spark source emission spectroscopy.

Continuing Education Training Certificates (Partial List)

PART ONE – INDUSTRIAL HYGIENE ASPECTS (Partial List) See Appendix A of full CV

- Non-ionizing Radiation (NIOSH 583 Course), School of Public Health and Community Medicine, University of Washington, Seattle, February, 1997
- Diagnosing the Indoor Environment, Harvard School of Public Health, Harvard University, Boston, Mass, May, 2000
- Operation and Selection of Portable Combustible and Organic Vapor Instruments and Fixed Continuous-Monitoring Systems, Boston, Massachusetts, 1992
- Evaluation of Biological Safety Cabinets, Boston, Massachusetts, 1992
- Breath Examiner Specialist (Chromatographic Determination of Blood Alcohol Content for Law Enforcement, certificate missing), Golden Colorado, 1976; current Intoxilyzer Certified through Colorado Department of Health.
- First Aid for Emergency Responders and Bloodborne Pathogens (recertification) Feb 2004
- CPR for Emergency Responders (recertification) Feb 2004
- Registered: Colorado State-approved analytical technologist. Determination of heavy metals in human blood and urine.
- AHERA Asbestos Management Planner - Georgia Institute of Technology, Germany 1987
- AHERA Asbestos Inspection, Georgia Institute of Technology, Germany 1987
- HazWoper 40 Hour, Golden CO, 1987
- AHERA Asbestos Worker/Supervisor, 1989
- Hazwoper Recertification, Wheatridge, CO 1989
- AHERA Recertification Asbestos Inspector/Management Planner, 1990
- AHERA Asbestos AHERA Worker, 1990 Golden CO
- AHERA Asbestos Supervisor, 1990 Golden, CO
- Identification and Abatement of Lead, FRCC, Colorado 1991
- Radon Measurement, US EPA, CSU, Ft. Collins, CO 1991
- Radon Mitigation, US EPA CSU, Ft. Collins, CO 1991
- X-Ray Fluorescence Operation, Princeton Gamma Tech, NJ, 1991
- AHERA Recertification Asbestos Inspector/Management Planner, 1991
- Psychological Stress in the Work Place, AIHA PDC, Salt Lake City, UT, 1991
- Pesticide Exposure Assessment, AIHA PDC, Salt Lake City, UT, 1991
- AHERA Recertification Asbestos Supervisor, CO, 1991
- Hazwoper Supervisor Recertification, FRCC, Golden, CO 1992
- Hazwoper 40 Hour Recertification, Wheatridge, CO 1992
- Biological Safety Cabinets AIHA PDC, Boston MA, 1992
- Environmental Law, AIHA PDC 1992
- AIHA “Methlabs” October 19, 2005
- Lung Toxicology and Disease, AIHA PDC, Boston MA, 1992
- AHERA Recertification Asbestos Inspector/Management Planner, June 1993

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- AHERA Recertification Asbestos Inspector/Management Planner, October 1993
- Radon RCP Recertification, US EPA 1994
- Radon Measurement Recertification, US EPA 1994
- Respiratory Protection, U. of CA, SF School of Medicine, Richmond, CA 1995
- Hazwoper 40 Hour Recertification, Wheatridge, CO 1995
- Colorado Dept of Health; Radiation Safety – Rules and Regulations, Boulder, 1998
- US EPA Radon Measurement Recertification, Colo Springs, 1997
- Confined Space Training (OSHA Compliance), Wheatridge, CO 1998
- AIHA PDC Evaluation of Local Ventilation, 1994
- Hazwoper 40 Hour Recertification, Lakewood, CO 2005
- Indoor Air Quality Investigations, Denver 2000
- Hazwoper 40 Hour Recertification, Lakewood, CO 2002
- AIHA Mold and Assessment Methods, Golden 2004
- Midwest Counter Drug Training Center, Clandestine Drug Lab Safety Program, Cheyenne WY, 2004
- Hazwoper 40 Hour Recertification, CO 2004
- Multijurisdictional Counter Drug Task Force (Florida) Drug Interdiction in Rural Patrol, 2004
- Indoor Mould Assessments and Exposures, ASHRAE/AIHA, Boulder CO, April 2005
- Methlab Clean-up Management, Aurora, CO 2005
- Bureau of Justice Assistance, Methamphetamine Investigation Management, Denver, 2006
- Reid Technique Interviews and Interrogation, Boulder CO, 2006
- 40 Hour "Train-the-Trainer" Breckenridge, CO 2006
- Fraudulent Document Assessment, Lakewood, CO 2008
- Colorado Department of Labor and Employment Train The Trainer Meth Program , Jefferson County Workforce, Marathon Oil Corp., Golden Colorado 2008

PART TWO – LAW ENFORCEMENT ASPECTS (Partial List) See Appendix B of full CV

- FBI/CRCPI Counter Terrorism 2004
- Certificate in Law Enforcement, POST ACC, 2004 (President's List and Dean's List)
- CRCPI/POST/ADL Anti-bias Policing, 2004
- ACC Law Enforcement Academy Squad Leader, 2004
- PCSO Appointment, 2004
- POST Certification, State of Colorado, Department of Law, 2004
- State of Colorado, POST Board Certification, 2004
- POST/PCSO Ending Violence Against Women, 2004
- PPCT (FBI Modified), ACC, 2003
- PPCT, PCSO, Colorado 2004
- PCSO Radar Operations Certificate 2005
- Methlab manufacturing field exercises, El Paso County Sheriff's Office, April 2005
- Domestic Terrorism, Regis University, 2005
- Specialty Impact Munitions Certification, PCSO 2006
- Fourth Amendment Issue in Vehicle Law, PCSO, 2006
- Bureau of Justice Assistance, Narcotics Task Force, Anti-Terrorism, 2006
- Advanced Handgun, Rifle and Shotgun (Farnham School), Fairplay, CO 2006
- State of Colorado Regulation 5-CCR-1005-2, Colorado Department of Public Health and Environment, 2006
- Active Shooter, Contact Team, Platte Canyon School District, Colorado July 2006
- Active Shooter, Contact/Rescue Team, Platte Canyon School District, Colorado Dec 2006
- PPCT Recertification, 2007



- Central Mountain Training Foundation, Active Shooter/Hostage, 2007
- State of Colorado Regulation 5-CCR-1005-2 Update, CDPHE, 2007
- NHSTA SFST, PCSO 2008
- PCSO Active Shooter, 2008
- Colorado Autotheft Investigators, General VIN Inspection, 2008
- Sexual Homicide, Regis University 2008
- M26/X26 Taser Certification, Taser International, PCSO 2008
- State of Colorado, POST Board Certification, Certified VIN Inspector, 2008

Professional Associations

American Industrial Hygiene Association
Colorado Drug Investigators Association
Occupational Hygiene Society of Ireland
ASTM International

Current Committees

ASTM International Committee D22 on Air Quality
Chairman D22.08 Johnson Conference – Health Effects of Molds
ASTM International Committee E30 on Forensic Sciences
ASTM E50 Committee on Environmental Assessment & Risk Management
American Industrial Hygiene Association – Methlab Working Group
Colorado Board of Health Stakeholder Committee; Methlab Regulations, Sampling and Analysis
Colorado Board of Health Stakeholder Committee; Methlab Regulations, Decontamination
American Industrial Hygiene Association Clandestine La Working Group

Commendations and Letters (Others – See Appendix C)

Letter of Appreciation, 2006 Park County Sheriff's Office
Sheriff's Commendation Award 2006, Park County Sheriff's Office

Selected Presentations (Partial list)

Connell CP, Hardey G, HIDTA/POST Certified *First Responder Clandestine Drug Laboratory Safety*, Peer reviewed Professional Development Class provided to the American Industrial Hygiene Association, Denver May 2010

Connell C.P., *Sampling Strategies and Myths of Mould Monitoring Data Interpretation*, Annual Conference of the Environmental Information Association, Austin TX, 2010

Connell, CP, *Industrial Hygiene Aspects of Law Enforcement, Implications in Community Emergency Preparedness*, Arizona Center for Public Health Preparedness, Arizona Health Sciences Center (Mel and Enid Zuckerman College of Public Health), University of Arizona, Tucson AZ, September 10, 2009

Connell C.P., *Sampling Strategies and Data Interpretation*, Presented at the ASTM International D22 Committee: 2009 Johnson Conference: Standardization of Mold Response Procedures University of Vermont, July 2009



Field Measurements for Moulds: Spatial and Temporal Variations

Presented at the ASTM International D22 Committee: Bringing Science to Bear on Moisture and Mold in the Built Environment, University of Colorado, June 2006

Sample Results: What do they really tell us? IAQ Sampling Myths

13th Annual AIHA/ASSE OEH&S Conference, “Exchanging Knowledge – New Times, New Ideas” Denver, CO October 2007

Laboratory Fume Hoods and Laboratory Control Devices

Presented to the annual meeting of the National Environmental Balancing Bureau (NEBB), November, 1998, Palm Springs California.

Clandestine Methamphetamine Laboratories

Presented to the Colorado Chapter of the American Society of Safety Engineers , August, 2002

Methlabs – Recognition and Hazards

Guest speaker: CSI Seminar, Regis University, October 2008

Sample results... What do they really tell us?

Presented to the *IAQ in Schools and Commercial Buildings* seminar, Corpus Christi, Texas, March 2003

Clandestine Methamphetamine Laboratories

Presented to the Colorado Association of Realtors, March, 2003, Denver, Colorado

Indoor Air Quality

Round Table Mediator: Joint BOMA, IREM, IFMA Continuing Education Meeting February, 1998, Colorado Springs Colorado

Introduction to Mold

Presented to the Colorado Chapter of the American Society of Home Inspectors, June, 2002, Denver, Colorado

A computational fluid dynamics (CFD) and tracer gas comparison of the spatial distribution of an airborne contaminant in an office space as a function of general ventilation Rasmuson J, Hall D, Birkner L, Connell C, Martyny J (American Industrial Hygiene Association, American Conference of Governmental Industrial Hygienists AIHce, June, 2007, Philadelphia, PA)

Indoor Air Quality Issues

Presented at the Building Owner's and Manager's Association (BOMA) Annual Meeting, April 1997, Colorado Springs, Colorado.

General Considerations in Biological Safety

Rocky Mountain Section AIHA, March 2003

Laboratory Fume Hoods and Laboratory Control Devices

Presented to the annual meeting of the Colorado Environmental Balancing Bureau (CEBB), chapter of the National Environmental Balancing Bureau (NEBB). October, 1997, Denver, Colorado.

Search And Seizure- Law Enforcement Applications of the Fourth Amendment to the US Constitution; Platte Cañon School District, Dec. 2004



Regulations and Hazards Pertaining to the Cleanup of Methamphetamine Laboratories.
Presented to the American Industrial Hygiene Association, Rocky Mountain Section, June 2005

Recognition and Hazards Pertaining to Meth Laboratories.
Presented to the American Society of Home Inspectors, June 2005

Contemporary Thoughts on Fume Hood Evaluation
Presented to the American Industrial Hygiene Association, Rocky Mountain Chapter, February 2002, Golden, Colorado.

Clandestine Laboratory Operations
Park County Colorado Sheriff's Office Victim's Advocate Office, (June 2005), and Park County Sheriff's Deputies and Auxiliary November 2005

Decontamination of Meth-Labs
Presented to the Rocky Mountain Property Claims Association, September 2005, Denver

Recognition and Hazards Pertaining to Meth Laboratories
Aurora (Colorado) Association, December, 2005

Moulds and Myths
Aurora (Colorado) Realtor's Association, December, 2005

Moulds and Myths
National Association of Certified Home Inspectors, December, 2005

US EPA TSCA Title II Classes: Asbestos
Co-Instructor with Steve Herron, Hager Laboratories, 1990 through 1992

Provided CRCPI/POST Accredited HIDTA Eight Hour *Clandestine Drug Lab Safety* training to the following sponsoring organizations (Partial List):

- Gunnison County Sheriff's Office/Gunnison Police Dept. May 2005
- Montrose Police Department June 2005
- Denver Probation, June 8, 2005
- Park County Sheriff's Office, June 2005
- Denver Probation & Parole, June 24, 2005
- Western Area Power Authority, March 2006
- Delta County Sheriff's Office, Delta Police Dept., March 2006
- Firestone Police Department March, 2006
- Douglas County Sheriff's Office, Sedalia, March 2006
- Jefferson County Sheriff's Office/Denver Probation, May 2006
- Reise Environmental (4 Hour non-law enforcement) June 2006
- Colorado State Patrol, June 2006
- Monte Vista Probation and Parole, June 2006
- Gunnison Area Residents (4 Hour non-law enforcement) June 2006
- Montezuma County Sheriff's Office, Cortez Police Dept., July 2006
- Pueblo County Sheriff's Office, Probation/Parole, Sept. 2006
- Park County Office of Victim's Advocate, October 2006
- Colorado State Patrol (4 Hour), November, 2006
- Prestige Realty Group (4 Hour non-law enforcement) December 2006
- Denver Probation/Clear Creek and Park Co. SO, December 2006
- Platte Canyon High School (4 Hour non-law enforcement) Aug. 2007

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Colorado State Regulations Pertaining to Methlabs
County Sheriffs of Colorado Undersheriff's Meeting, Montrose, June 2006

Colorado State Regulations Pertaining to Methlabs
Aurora Board of Realtors, April 2007

Colorado Methlab Regulations – Aspects of Sampling
National Association of Certified Home Inspectors, October, 2008

General Considerations in Biological Safety
ABIH CIH Preparation Course sponsored by the RMS AIHA, April 2006

Law Enforcement Aspects of Methlabs
Impromptu Guest Speaker at the Colorado Department of Labor and Employment Train The Trainer Meth Program, October 2008

Methlabs, Hazards, and Recognition
Denver Board of Realtors, December 2005

Indoor Mould Assessments
National Association of Certified Home Inspectors, October, 2007

Colorado Real Estate Regulations and Methlabs
Craig Board of Realtors, Insurance Agents (Scheduled for Nov. 10, 2008)

Meth and Methlabs: Where are they and what are they? Hazards, Recognition and Evaluation
Craig Board of Realtors, Insurance Agents (Scheduled for Nov. 10, 2008)

Colorado Regulations pertaining to Methlabs- Assessment and Compliance
Craig Board of Realtors, Insurance Agents (Scheduled for Nov. 10, 2008)

Selected Writings (Partial List)

Blue Canaries – Industrial Hygiene Opportunities in Law Enforcement
AIHA publication “The Synergist” Vol. 20 No. 5, May 2009

Koch TD, McArthur HL, Martyny JW, Cameron MS, Havics AA, Connell CP
Clandestine Methamphetamine Laboratory Assessment and Remediation Guidance
American Industrial Hygiene Association, ISBN 13: 978-1-931504-80-5, July 2007

Connell CP, *Forensics by Any Other Name*, The Monitor, American Society of Safety Engineers,
Vol 6, No.2, December 2006

Chamomile Dust Exposure
British Occupational Hygiene Newsletter, May 2003

Connell, CP *Mold Rush*, Environmental Health and Safety Solutions; Fall/Winter 2003

Interview and photographs included in Cover Story; Reid, J *The Battle Behind “Toxic” Mold*
Colorado Builder Forum, Vol. 6 No.4 2002



Connell CP, *Occupationally Associated Carpal Tunnel Syndrome: An Historical Industrial Hygiene Perspective* www.forensic-applications.com/cts/cts.html (This article is the censored version of an expert witness work product prepared for litigation.)

Larson DM, Rasmuson JO and Connell, CP, *Comparison of Health Risks Associated with USEPA cleanup guidelines and workplace standards*, Fall Technical Conference, Colorado Hazardous Waste Management Society, October 1991.



Examples of Expert Witness Services

The following is a partial list of civil cases and projects where expert witness services were provided. The partial list is not intended to reflect any particular selection, except full exclusion of criminal cases. In the following list, "Cases" indicate the client identified my services, *ad initio*, as expert witness services or projects that eventually became actions of litigation where my work was used in a litigation process. "Projects" indicates that the client identified the services as work that may eventually be applied to some litigious action. Additional cases, criminal cases and specific projects available upon request.

Powers Case:

Primary Recipient: Home Owner – plaintiff

Case type: Residential microbial contamination due to alleged negligence in maintenance.

(Dr. Robert Powers vs. Embassy House Condominium, *et al* 03 CV 1766)

Approximate Date: April 23, 2003

Contact: Howard Haenel, Attorney at Law

Antonio Bates Bernard

3200 Cherry Creek South Drive

Suite 380, Denver CO 80209

Lebsack Case:

Primary Recipient: Appliance Contractor- defendant

Case type: Smoke damage allegedly due to faulty installation of a drier

Approximate Date: November 1998

Contact: Mr. David M. Bost, Attorney at Law

1290 Williams Street, Suite 203

Denver, Colorado 80218

Letterly Case:

Primary Recipient: Home Insurance Carrier- defendant

Case type: Residential microbial infestation allegedly as a result of improper remediation

Approximate Date: December, 2000

Contact: J. Bradley Hardman, Attorney at Law

UMB Bank Building, 5825 Delmonico Drive, Suite 320

Colorado Springs, Colorado 80919

Colorado Casualty Case:

Primary Recipient: Rick Angell, Attorney at Law (Offer of Proof)

Case type: Toxic tort, resulting from chemical exposures in an illegal drug lab.

Approximate date: April 2008

Contact: Rick Angell, Attorney at Law

Zupkas & Angell Law Firm

The McCourt Mansion

555 W 8th Ave, Denver, CO 80203

Trona Case

(UP/Romero v RMT Trucking/Gallegos)

Primary recipient: Attorney (Defendant)

Case type: Fugitive airborne emissions of bulk dry powders during transloading operations at a rail-yard, resulting in claims of pneumoconiosis and asthma.

Approximate date: June 2004

Contact: J. Bradley Hardman, Attorney

Wittman & McCord, Attorneys at Law

UMB Bank Building, 5825 Delmonico Drive, Suite 320

Colorado Springs, Colorado 80919

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Bracey Case:

Primary Recipient: Home Owner – defendant; Criminal/Civil Child Custody
Case type: Residential microbial contamination
Approximate Date: January 8, 2002
Contact: Mr. E. Douglas Bracey III
6318 Pottsburg Plantation Blvd.
Jacksonville, Florida 32216

Hinshaw Case:

Primary Recipient: Home Owner - plaintiff
Case type: Smoke damage to residence due to faulty construction resulting in a fire (George A. Hinshaw, PhD.; Ioana Hinshaw, MD *et al* v. Forest Glenn Inc., *et al*, District Court Arapahoe County, Colorado Case Number 99, CV 3649, Date –June, 2001)
Approximate Date: March, 2001
Contact: Mr. Jeff Cohen, Attorney at Law
600 17th Street, Suite 2800 South
Denver, Colorado 80202

Perini Case:

Primary recipient: Construction Surety
Case Type: Construction defect and claims of fungal colonization
Approximate date: Summer 2007 through fall of 2007
Contact: Brian Labbe, Program Manager
Perini Management Services Inc.
73 Mt. Wayte Ave.
Framingham, MA 01701

Odgen Street Case:

Primary Recipient: Home Owner - defendant
Case type: Clandestine methamphetamine production resulting in allegedly contaminated property
Approximate Date: July 29, 2002
Contact: Mr. Richard J. Korecki, Esq., Attorney at Law
3956 South Jersey Street
Denver, Colorado 80237

Burgess Case:

Primary Recipient: Home Owner – plaintiff; Insurance Carrier,- plaintiff
Case type: Residential microbial contamination. Various alleged causes including product defects and improper bioremediation
Approximate Date: July, 2001
Contact: Jynatha Bland
Travelers Insurance S.L.G., PO Box 5122
Denver, Colorado 80217

Van Putten Case:

Primary Recipient: Home Owner - plaintiff
Case type: Residential microbial contamination due to construction defects
Approximate Date: January 31, 2003
Contact: John Goutell, Attorney at Law
821 17th St. Suite 600
Denver, CO 80202



Mann Oriental Rugs Case:

Primary Recipient: Home Owner - defendant
Case type: Mercury contamination of carpet; Order to Destroy by Civil Authority
Approximate Date: May, 2001
Contact: Robert Mann
Robert Mann Oriental Rugs, Inc.
2540 Walnut Street
Denver, Colorado, 80205

Montana Case:

Primary Recipient: Home Builder - defendant
Case type: Residential microbial contamination as a result of alleged construction defects
Approximate Date: October, 2000
Contact: Mike Lilly, Attorney at Law
Berg, Lilly & Tollefsen, P.C.
1 West Main Street
Bozeman, Montana 59715

Galt Case:

Primary Recipient: Club Manager - defendant
Case type: Commercial microbial contamination due to alleged construction defects, order to cease and remediate
Approximate Date: June 24, 2003
Contact: The Boy's and Girl's Club of Galt, Executive Committee
905 Caroline Ave.
Galt, Ca 95632

Toporski-Hirschhorn Project:

Primary Recipient: Home Insurance Carrier - defendant
Case type: Residential fiber-glass contamination due to alleged construction defects
Approximate Date: December 3, 2001
Contact: Marty Van Buskirk, Claim Specialist
State Farm Insurance Companies
4900 South College Ave.
Fort Collins, Colorado 80525

Erkhart-Aregon project:

Primary Recipient: Home Insurance Carrier - defendant
Case type: Residential microbial contamination following civil engineering project
Approximate Date: December 2, 2001
Contact: Ms. Lynn Avedovech, Claim Specialist
State Farm Insurance Companies
PO Box 280929
Lakewood, Colorado 80228

Kalka V. US Case:

Primary Recipient: U.S. Department of Justice – defendant
Case type: Alleged deficiencies in indoor air quality and airborne contagia in a prison setting.
(Civil Action No. 91-Z-753)
Approximate Date: December 1995
Contact: Mr. George E. Gill, Assistant U.S. Attorney
U.S. Department of Justice
United States Attorney, District of Colorado, Civil Division
1961 Stout Street, Suite 1100, Drawer 3608
Denver Colorado 80294



Saccomano Case:

Primary Recipient: Home Builder - defendant
Case type: Residential microbial contamination following alleged construction activities,
Approximate Date: September, 2000
Contact: Deborah Broom, Attorney at Law
Kaufman & Broad
10990 Wilshire Blvd. 7th Floor
Los Angeles, California 90024

Klein case:

Primary Recipient: Attorney - defendant
Case type: Residential mould contamination due to water damage,
Approximate Date: June, 2008
Contact: Suanne M. Dell, Esq.
Attorney At Law
Wells, Anderson & Race LLC
1700 Broadway, Suite 1020
Denver, CO 80290

Ferris Case:

Primary Recipient: Home Insurance Carrier - plaintiff
Case type: Residential contamination due to alleged construction defects
Approximate Date: August 23, 2001
Contact: LeRoy Ortega, State Farm Claims
PO Box 546
Frisco, Colorado 80443

Price project:

Primary Recipient: Home Insurance Carrier - defendant
Case type: Residential mould contamination due to catastrophic water damage,
Approximate Date: August 26, 2002
Contact: Marty Van Buskirk
State Farm Insurance Company
4900 S College Ave.
Fort Collins, Colorado 80525

US Dept of Justice:

On October 22, 2008, sworn oral testimony was given to the US Department of Justice, Office of the Inspector General, in an undisclosed case. Presiding was:
S. Randall Humm
Investigative Counsel
US Department of Justice
Oversight and Review Division
Suite 13100
1425 New York Ave. NW
Washington DC, 20530

