



EnTox & Associates

*Medical and Environmental Toxicologists
Chemical Safety Consultants*

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RUDOLPH VON BURG, Ph.D., DABT, CIH, CEI.

EXPERTISE : Comprehensive Industrial Hygiene Practice. Provide consulting services for, Indoor Air, Mold, Hazardous Waste, OSHA compliance, HUD lead, Asbestos inspections and compliance and product labeling. Expert witness and litigation support have included hydrocarbons (Process Intermediates and Finished Products e.g. benzene and toluene), Generic Chemicals (e.g., TDI), Food Additives and Contaminants, Synthetic Chemicals (e.g., PCBs), Pharmaceuticals (tryptophan), Pesticides (Alar), Fibrous Materials (Asbestos), and pool chemicals.(chlorine and hypochlorite).

EDUCATION

- 1968-1970
- Post Doctoral training, University of Rochester, Rochester, NY. Department of Pharmacology & Toxicology.
Research in heavy metals and anticancer agents.
 - Ph.D. Biopsychology. Fordham University, NY.
 - M.S. Physiology, Yale University, New Haven, Connecticut. U.S. Public Health Service Training, Fellowship.
 - M.S. Biology, Long Island University, Brooklyn, NY. University Teaching Fellowship in Chemistry.
 - BS., Biology, Boston College, Chestnut Hill, Mass. Athletic Scholarship.

CERTIFICATIONS

Diplomate American Board of Toxicology (DABT) - 1980 – Pres.
Certified Industrial Hygienist (CIH) - Cert # 6839
Certified California Lead Inspector/Assessor (Cert. # I 1551) Monitor (Cert. # M 1551)
Certified Environmental Inspector (CEI) Cert. # 14453
California Certified Asbestos Consultant – (CAC) - Cert # 98-2471
Utah Asbestos Certification (Cert. # 2258)
AHERA certified for Building Inspection/Management Planning/Supervisor/Contractor
Utah Lead Based Paint Certification (Cert # PB-1160)
40 hr Hazwoper trained: Respiratory fit tested and certified; Certified CPR
Hazardous Waste Supervisor Training; Confined Space and DOT Shipping Trained

EMPLOYMENT EXPERIENCE

- 1996 - Pres. **PRINCIPAL** . EnTox & Associates. Responsible for generating clients and completing assignments. Projects include general toxicology consulting, toxic tort litigation support and expert witness testimony, Comprehensive Industrial Hygiene practice, construction site safety oversight, compliance training, hazard communication and Risk Assessments. **ADJUNCT INSTRUCTOR** for Toxicology and Risk Assessment with the UC Berkeley Extension the Program in Environmental Hazard Management.
- 1997 - Pres. **PROGRAM MANAGER SAFETY & HEALTH, SACRAMENTO TERC.II** Managing and providing toxicology and safety oversight for this \$260M Total Environmental Restoration Contract with the U.S. Army Corps of Engineers. Duties include implementing and overseeing Shaw E & I Corporation's health and safety program for seven on-going delivery orders for environmental remediation for Chemical Warfare Materiel (CWM) sites, Unexploded munition (UXO) sites, sewage lagoons and other hazardous waste sites. Also provide guidance in addressing regulatory compliance for hazardous materials and construction safety issues. Developed the Basewide Health and Safety Plans for anticipated work at Dugway Proving Ground, Ogden Depot , Tracy Army Depot and the Oakland Army Base.
- 1991 - 1996 **TECHNICAL DIRECTOR** of toxicology services and **WESTERN REGIONAL MANAGER** for Risk Assessment at ICF Kaiser Engineers. Provided technical direction and expertise in toxicology and management of the risk assessment activities in five regional offices. Also responsible for project bidding,

program management, client contact and sales. ADJUNCT INSTRUCTOR with the UC Berkeley Extension Program.

- 1989 - 1991 PRINCIPAL TOXICOLOGIST and PROGRAM MANAGER, ENSR CORP. Coordinated toxicology technical services including distribution of work, product development and product delivery. Resource for RCRA and TSCA compliance issues. Managed human and environmental health risk assessments and special projects. Directed client contact and business development.
- 1988 - 1989 PRINCIPAL TOXICOLOGIST, Bechtel Environmental Corporation. Organized and guided the corporate-wide risk assessment and toxicology effort. Specific tasks included evaluation of waste cogenerator facilities and stack sampling at a desalinization facility in Saudi Arabia.
- 1987 - 1988 REGIONAL STAFF TOXICOLOGIST, Department of Health Services, Division of Toxic Substances Control. Evaluated data on hazardous waste sites, assessed environmental and community impacts, conducted hazard and risk assessments, and provided toxicology support to compliance officers and local District Attorneys. Participated in community relations, meetings and communications. Reported directly to the Unit Chief.
- 1986 - 1987 STAFF TOXICOLOGIST, Cal/OSHA. Supervisor, Right-to-Know Unit. Supervised 8 people. Liaison with the California Pesticide Registration Board, HESIS and The California DHS. Also conducted special projects and investigations for Cal/OSHA. Reported directly to the Deputy Chief, Safety and Health.
- 1979 - 1986 SENIOR TOXICOLOGIST, Hazard Communication, Chevron Environmental Health Center, Inc. Supervisor of 9 technicians and professionals in the MSDS/ product label program. Designed and documented emergency response plans and community as well as worker right-to-know procedures. Supervised the activities of the Chevron Poison Information Center. Company Representative to appropriate regulatory agencies and trade union organizations. SENIOR TOXICOLOGIST, Community Health, Chevron Environmental Health Center, Inc. Performed hazard evaluations and risk assessments. Member of a task force organized to deal with product releases. Principal toxicologist for three major product spills throughout the U.S. Represented company and scientific interests to governmental agencies that have jurisdiction over such releases. Toxicology advisor to lawyers on "Consent Orders" and expert witness. SENIOR TOXICOLOGIST, Product Evaluation, Chevron Environmental Health Center, Inc. Duties involved evaluation of products for potential health effects for labeling and consumer use. Member of the Chevron Poison Information Center, which receives 6 - 8,000 calls per year.
- 1979 - Prior VISITING RESEARCH SCIENTIST, University of Rochester, NY. PROFESSOR and CHAIRMAN (Tenured) for Biology, Life Science, and Instrumentation Science, Ramapo State College of New Jersey. ADJUNCT PROFESSOR of Psychology, Fordham University. ASSISTANT PROFESSOR, Physical Science Department at York College, City University of New York. Obtained a C.U.N.Y. Grant for Research. Concurrent BIOCHEMIST RESEARCH ASSOCIATE in the Department of Anesthesiology, Montifiore Hospital, NY ASSISTANT PROFESSOR, Biology Department at the College of New Rochelle, NY. INSTRUCTOR in Botany and Zoology at St. Francis College, Brooklyn, NY. VISITING SCIENTIST at the New York University Environmental Health Center, Sterling Forest, NY. RESEARCH ASSOCIATE to the Department of Pharmacology and Toxicology, University of Rochester, NY. University representative to the Iraqi government during the Iraqi Methylmercury Epidemic (1971-1973). RESEARCH ASSISTANT to Dr. J.P. Flynn, Psychology Department, Yale University. RESEARCH ASSISTANT to Dr. E.A. Tonna, Medical Research Unit, Brookhaven National Laboratories, Upton, NY.

PUBLICATIONS More than 110 publications in peer reviewed journals.

REPRESENTATIVE PROJECT EXPERIENCE

Project Management Experience

Project Manager for industrial hygiene support at Western States Glass in Fremont, CA. Project involved conducting a noise survey, performing personnel noise monitoring, establishing training procedures, preparing documents for regulatory compliance and completing a hazardous chemical inventory.

Project Manager and CAC for an Asbestos and lead survey at Vishay Siliconix facility in Santa Clara, CA

Project Manager for an asbestos risk assessment for a residential housing complex in Hayward, CA. Housing development was constructed over a serpentine rock formation.

Project Manager for Radon Risk assessment for private residence in Tennessee regarding the etiology of lung cancer.

Consulting Toxicologist regarding TSCA, Consumer Products Commission and FDA clearances for soap and body cosmetic ingredients for potential import into the United States.

Project Management, Indoor Air Quality. Conducted and managed an indoor air quality investigation for a 10,000 sq ft office building in Novato, California.

Task Manager, Indoor Air Quality. As part of a pre-purchase due diligence, managed the indoor air quality investigation of a 40,000 sq ft office complex with respect to asbestos, lead, dust, mold and volatile chemicals.

Project Manager, Air Monitoring Program. Provided project management and oversight for air monitoring effort associated with excavation activities at a former Town Gas Site in San Francisco.

Project Management, Risk Evaluation. Conducted a risk evaluation on a herbicide (2,6 dichlorobenzonitrile) for suitability in sewer drains for Roto-Rooter.

Project Manager, Risk Assessment. Managed a human health risk assessment for an industrial property in Union City, California. Principal contaminants were chlorinated hydrocarbons from neighboring sites. Concomitantly conducted a Proposition 65 evaluation for vapor emanations from the groundwater.

Project Manager, Risk Assessment. Conducted, managed and supervised the risk assessment associated with chlorinated solvents in the groundwater under a planned housing development in Union City, California.

Program Manager, Safety & Health. TERC II. Manager for all Safety & Health aspects associated with the \$250 million clean up operations for the Army Corps of Engineers. Provide oversight for all Site Safety & Health Plans and supervise field safety officers located in Utah, California and Nevada. Coordinate with safety officers from subcontractors and provide liaison with ACE personnel.

Project Director for Spray Paint Hazard Assessment. Supervising Industrial Hygienist for personnel and area sampling of a spray paint operation at a small manufacturing facility in Grass Valley, California. Interpreted the data and provided a written report on the alleged hazards associated with the operation. Prepared final report for insurance company assessing the validity of health effects claims.

Project Director for Mercury Assessment. Supervised surface and air sampling for inorganic mercury following a spill in the instrument shop of the East Bay Municipal Utility District. Reviewed the data and conducted a hazard evaluation for occupational exposure to the residual air concentrations of mercury.

Project Director for an EPA ecological risk assessment for a fertilizer facility in Alaska. Past practices at an agricultural fertilizer production facility permitted the release of substantial quantities of production wastes into the soil. These wastes percolated into the groundwater that subsequently reached a discharge point into Cook's Bay. A risk assessment was performed on the ecological impact of these wastes on local fauna and flora as well as human subsistence fishermen and recreational use of the seashore.

Project Director for assessing risks associated with TCE and 1,4 Dioxane in household water supply. Due to a past spill, TCE and 1,4 Dioxane was reported to be traveling in the ground water towards a potable water supply well. The client requested a risk assessment for these two materials to determine potential liability. The risk assessments included the showering scenario.

Project Manager for an environmental risk assessment for an Alumina Processing Facility. Conducted a site visit to collect engineering and ecological information and assess potential environmental hazards from the red mud waste stack at Alumina Espanola, Spain. Conducted onsite inspection and provided oversight as the project manager for the

preparation of a screening risk assessment needed to expand the red mud stack and extend the life of the facility for another 30 years. The risk assessment also needed to include considerations for the final decommissioning of the facility and the waste stack.

Project Manager for Phase 1 Assessment of an electronic firm. In response to a request by an east coast law firm, a phase 1 assessment was conducted on an electronics design and testing firm in Sunnyvale, California. The assessment was conducted on a rush basis and completed within 48 hours due to an imminent final closing date.

Project Manager for Risk Assessment on elemental mercury at EBMUD. Directed risk assessment related to an elemental mercury spill at the EBMUD instrument shop. The risk assessment addressed OSHA concern's, California Proposition 65 concerns and residual risk associated with low level mercury vapor exposures.

Project Manager for a review and ghost writing of toxicological laboratory studies into publishable manuscripts. This project was performed for a Fortune 500 firm. It involved collecting and reviewing 30 years worth of laboratory toxicity studies and synthesizing these studies into fifteen separate manuscript acceptable for peer reviewed publication.

Project Manager for placing and conducting TSCA toxicity testing on proprietary materials for an aerospace company. A particular compound extensively used in the aerospace industry currently has an insufficient toxicology data base to properly assess potential health impacts associated with low level exposures. As the toxicology consultant to this client, I am responsible for the design of experimental protocols, their placement with contract laboratories, conduct oversight of the testing, and final data interpretation of the experimental results.

Project Manager for the preparation of approximately 100 OSHA compliant MSDSs on refinery streams for CITGO Inc. Refinery streams are even more complex than petroleum products and often lack direct toxicity data. This project involved searching data bases for related information and synthesizing this information into suitable warning statements to be included in the MSDS. The MSDSs were also designed to comply with federal and state standards.

Project Manager for the preparation of OSHA compliant MSDSs for specialized rare earth optical coatings. Rare earth metals have only limited data available with respect to their toxicity characteristics. However, from the limited information available in selected databases, MSDSs and suitable warnings were constructed to meet regulatory compliance.

Project Manager and Project Director for an environmental assessment of bauxite waste handling practices at Aughinish, Ireland. This facility has been "dry stacking" the "red mud" wastes for a number of years. This project involved assessing the occupational, general population and environmental toxicity of the caustic soda and sodium oxalate in the red mud. It was also necessary to assess potential environmental effects of past, present and future liquid leaks as well as the percolation and leach of the liquids from the red mud stack. Current environmental sampling practices were reviewed. Hydrological and geological factors were also assessed to calculate a mass water balance for the red mud stack.

Project Manager for an AB2588 refined risk assessment for a glass bottle manufacturing facility. A major glass bottle manufacturing facility conducted a preliminary risk assessment on its stack emissions of hexavalent chromium to comply with regulatory requirements. This risk assessment suggested that the surrounding population was being exposed to levels of this carcinogen that are considered to be unsafe. The company was therefore potentially liable to several millions of dollars in regulatory fines as well as toxic tort litigation. By conducting a refined risk assessment that considered details of site specific parameters, the calculated a risk level of less than 10⁻⁵ was achieved. This risk level is considered safe by the regulations.

Project Manager for an AB2588 refined risk assessment for a chemical manufacturing facility. A chemical manufacturing facility submitted an AB 2588 air emissions evaluation in an effort to meet regulatory requirements. This document suggested that emissions from the facility had and were exposing thousands of people in the general population to excessive levels of perchloroethylene; a substance considered to be a carcinogen by the state of California. The liability of such exposure as well as regulatory fines amounted to millions of dollars. ICF conducted a refined risk assessment that considered site specific factors and demonstrated that the risk to the surrounding population was less than 10⁻⁵. This risk level is acceptable to the regulatory agencies avoiding the million dollar fines and liability litigation.

Project Manager for assessing Proposition 65 liability associated with specialized petroleum products. Conducted literature review and calculated NSRLs for Proposition 65 compliance for several selected petroleum products employed by the client.

Project Manager for assessing Proposition 65 liability associated with some designated pesticides and specialized products for an aerospace company. Conducted literature review and calculated NSRLs for Proposition 65 compliance for several pesticides used by this aerospace company.

Project Manager for assessing Proposition 65 liability associated with specialized computer chip manufacturing processes. Conducted literature review and calculated NSRLs for Proposition 65 compliance for arsenic sources utilized in coating computer chips.

Project Manager for assessing Proposition 65 liability associated with specialized furnace and boiler products. Conducted literature review and calculated NSRLs for Proposition 65 compliance for a number of products used in the encasing and repairing furnaces and boilers.

Project Manager for CERCLA risk assessment for property contaminated with solvents and polynuclear aromatic substances and lead. Conducted a health risk assessment for a parcel of property that was being considered for use as a new primary grade school site.

Project Manager for environmental and occupational health issues for the Oakland Hills Firestorm clean-up. A major fire disaster destroyed over 2000 homes in the Oakland Hills. As project manager for the environmental and occupational health issues, I initially met with numerous local, state and federal regulatory agencies (OSHA, DHS, RWQCB, RAQMD, County Health, etc.) to discuss specific regulatory issues associated with the clean-up for the extensive fire debris. Subsequently, I was responsible for ensuring regulatory compliance and preventing any further environmental impacts. I interacted with the regulatory agencies, the public and the construction engineers on a daily basis. Asbestos was the material of primary health concern at this site.

Project Manager to assess potential occupational (OSHA) and consumer exposure (CPSC) to volatile organic compounds from newly constructed computers. An electrical transformer supplier modified their manufacturing practices that resulted in degassing and odor production from the transformer when heated to operating temperature. This caused great concern for the computer manufacturer due to possible exposure to toxic materials by assembly line workers (OSHA) as well as the consumer (CPSC). As project manager, I collected 3 new transformers, supervised and assisted in the design and collection of gaseous emissions from the transformers, arranged for the chemical analysis of the gases and prepared a final report which interpreted the results and possible occupational and private computer use effects. The rapid and organized response, over a single weekend, avoided a costly "shut down" of the computer assembly line as well as costly litigation between the component supplier and the computer assembler.

Project Manager for conducting a radiation survey (NRC) of a hazardous waste site in northern California. Due to the potential discharge of radioactive materials at this former test site and current hazardous waste site, a radiation survey was required for the 150 acre plot. Methodology, criteria and a safety & health plan were constructed and the radiation survey implemented. The site received a radiation clearance within one day.

Project Manager to develop soil lead clean up levels for a CERCLA waste site, Emeryville, CA. A prime parcel of property was found to contain lead as a soil contaminant. Assessed the concentrations of lead in the soil and estimated potential blood lead levels in children that might be attributed to direct soil ingestion. Blood lead levels were determined using the IUBK model for lead exposure.

Task Manager for the preparation of a Health & Safety Plan, an IIPP and Hazard Communication Plan for a small disadvantaged Protégé company in Oakland, CA.

Task Manager for the preparation of an IIPP and Hazard Communication Plan for an electrical contractor in Reno, Nevada.

Task Manager for the preparation of a Hazardous Waste Management Plan following the D & D of cooling Towers at Hinckley and Topock.

Task Manager for the preparation of the Health & Safety Plan for the renovation of a sewage lagoon and piping at the Army Defense Distribution Depot San Joaquin, Tracy CA. Primary chemicals of concern were a large variety of pesticides.

Task Manager for the preparation of site specific plans. Supervised the preparation of site specific Chemical Data Acquisition Plan, Regulatory Plan, Site Safety and Health Plan and Hazardous Waste Sampling Plan for the eventual disposal of mixed, low level radioactive wastes.

Task Manager for Phase I assessment for the Port of Oakland. Provided direction and oversight on the field survey and final report for the assessment of properties and roadways associated with several parcels of property that belonged to the Port of Oakland prior to transfer to the City of Oakland.

Task Manager for Phase I assessment for the City of Oakland. Provided direction and oversight on the field survey and final report for the assessment of a waterfront property where the USS Potomac was restored.

Task Manager for Phase I assessment on an Apartment Complex. Provided oversight on the preparation of a sampling protocol; actual asbestos and lead sampling and final report preparation for a Phase I assessment for a large apartment complex in South San Francisco. The complex was occupied with only a few empty apartments.

Task Manager for due diligence property evaluation. Conducted a site field visit and supervised a due diligence investigation of a high intensity bulb manufacturing facility in San Jose, California.

Task Manager for the preparation of a mercury "issues" document. At the request of the Electrical Power Industry (EPI) a document was formatted and constructed to allow the presentation of the critical issues related to the human health and environmental impacts of mercury releases from power plants.

Task Manager for assessing the exposure of humans to methylmercury through the consumption of fish. This task, conducted for the Electric Power Research Institute, involved reviewing the open literature for information on Hg deposition into lakes rivers and streams and assessing the per capita exposure of the U.S. population to methylmercury as well as the exposure of certain subpopulations such as recreational anglers, subsistence anglers and pregnant women.

RCRA evaluation of former gun club firing range for residual lead contamination, Folsom, CA. As a California DHS regional toxicologist, I conducted a site visit and reviewed analytical data regarding residual lead concentrations in soil at a former shooting range. Despite past screening of lead shot from backstop bunkers, residual lead still indicated a general hazard. Provided possible remediation alternatives suggestions for the site.

RCRA evaluation of residential development site for residual lead contamination, Richmond, CA. As a California DHS regional toxicologist, I assessed a former industrial reclamation site on Marina Way, Richmond CA. The site contained significant but localized lead contamination and was currently under development for a major residential complex. Suggestions were provided to allow concurrent continued construction and lead mitigation.

CERCLA evaluation of lead contamination at a former ASARCO site, Crockett, CA. As a California DHS regional toxicologist, I assessed a former ASARCO site was contaminated with lead slag and battery acid and threatened San Francisco Bay. Provided suggestions for in-place management of lead contamination.

As a California DHS regional toxicologist, evaluated and critiqued numerous RCRA, CERCLA risk assessments and RI/FS documents performed by responsible parties.

Critique of a regulatory agency conducted RCRA human health risk assessment and ecological risk assessment for a former Texaco refinery. Texaco Inc. closed and dismantled a surplus refinery in midwestern USA. The state regulatory agency insisted on conducting the human health and ecological risk assessment for the property and estimated greatly elevated risk levels for the site. This risk assessment was reviewed and a number of suggestions and refinements were delineated that allowed the risk level to be considerably reduced.

Evaluated numerous RCRA, CERCLA risk assessments and RI/FS documents while employed as the Regional Toxicologist for the State of California.

RCRA assessment of risk due to residual contamination of pesticides at three former manufacturing/formulations facilities. Past practices at three fertilizer distribution facilities in central California resulted in extensive contamination of the facility structures and grounds. As a toxicology expert, I evaluated the nature, extent and potential health impacts of this contamination to the workers at the facility and the surrounding community.

Litigation Support Examples

Expert Witness (Plaintiff) on the condition of asbestosis in automotive brake mechanics.

Litigation Support (Defense) on the premature death of an owner/operator of a mobile home service center due to mesothelioma.

Litigation Support (Defense) on the premature death of a prison guard alleged to be due to re-roofing fumes.

Expert in Toxicology (Plaintiff) for the allegation of laryngeal/lymphatic cancer following an occupational lifetime of exposure to nickel refinery dust.

Expert in Toxicology (Plaintiff) for the allegation of harassment and punitive termination of employment of an individual that questioned work practices vs OSHA regulations at a California winery.

Expert Witness (Defense) regarding the etiology of lung cancer in a microelectronics worker (New Hampshire).

Litigation Support (Plaintiff) on the allegation of adverse health effects attributable to an acute exposure to MTBE in gasoline.

Litigation Support (Defense) on the allegation that plaintiff developed Acute Lymphoblastic Leukemia (ALL) due to exposure to glycol ethers.

Litigation Support (Defense) on the allegation that plaintiff developed Acute Myelogenous Leukemia (AML) due to exposure to glycol ethers.

Expert Witness (Defense) on alleged asbestos exposure following the demolition and removal of a furnace in an apartment building.

Expert Witness (Defense) on alleged exposure to asbestos due to handling and drilling of bakelite panels.

Expert Witness (Plaintiff) regarding CO exposure due to a faulty stove.

Expert in Toxicology (Defense) regarding the etiology of lung cancer in a millwright (San Francisco).

Expert in Toxicology on a Prop 65 issue regarding the occurrence of lead in homeopathic medicines.

Expert Witness (Defense) regarding the source of mold and bacterial contamination in a private residence in Oakland, CA following black water intrusion on more than one occasion.

Expert in Toxicology (Defense) for the allegation of adult onset of poisoning due to environmental lead exposure.

Expert Witness (Defense) regarding the etiology (life style versus environmental exposures) of laryngeal cancer, melanoma and lung cancer (Florida).

Expert in Toxicology (Plaintiff) regarding fatal overexposure to CO during a building fire

Expert in Toxicology (Defense) regarding the allegation that cleaning chlorinated solvents were the cause of aplastic anemia in a computer field technician.

Expert Witness (Defense) regarding the etiology (life style versus occupational exposures) of lung cancer (New York)

Expert in Toxicology for product safety regarding allergic and contact dermatitis associated with stainless steel jewelry. Researched the EEC standards and regulations on this topic and provided product safety testing recommendations and label language.

Expert in Toxicology (Defense) and petroleum products for Chevron Corporation, Huntington Beach, CA. Allegations of health effects from fugitive vapors from an oil field SVE system and impinging on the claimants home.

Expert Witness (Defense) regarding the etiology (life style versus occupational exposures) of lung cancer (Missouri)

Expert in Toxicology regarding secondary manslaughter contributed by/due to intoxication by pharmaceutical agents and street drugs.

Expert in Toxicology regarding the identification and characterization of a methamphetamine operation in Eureka, CA.

Expert in Toxicology (Plaintiff) for lung damage associated with an acute exposure to a petroleum refinery stream.

Expert Witness (Defense) related to CO exposure by a dentist during travel in a U-Haul truck.

Expert Witness (Defense) regarding the association between lung cancer, asbestos and smoking.

Lead Investigator: (Plaintiff) Conducted a Lead and Lead Based Paint investigation according to HUD guidelines for litigation involving a lead poisoned child.

Panel Member and Expert in Toxicology and Applied Sciences for resolution of a patent infringement dispute on a manufacturing procedure. Morrison and Foerster, LLP.

Expert Witness (Plaintiff) regarding wrongful deaths attributable to workplace exposures to industrial carcinogens at a trucking company .

Expert in Toxicology (Plaintiff) regarding exposure to elevated levels of CO at a motel.

Expert in Toxicology (Plaintiff) regarding contamination of raw and ground coffee by smoke following an industrial fire.

Expert Witness (Defense) regarding cleanup efforts on a major oil spill in Boise, Idaho. The spill impinged upon a hospital, high school, nursing home, Ob-Gyn clinic, local newspaper and local residences and commercial operations..

Expert in Toxicology (Plaintiff) for premature death due to exposure to carcinogens including benzene by a railroad worker.

Expert Witness (Plaintiff) regarding non carcinogenic health effects due to PNA exposures at a housing project in Daly City, CA.

Expert in Toxicology (Defense) regarding incidental pyrethrin exposures from fogging of a food storage warehouse in Sacramento CA

Expert in Toxicology (Defense) regarding incidental chlorpyrifos exposure following a residential application by a commercial exterminator company.

Expert in Toxicology (Defense) for a wrongful death attributed to a drug interaction between Dilantin and Naprosyn.

Expert in Toxicology (Defense) regarding an allegation that exposure to hydrocarbons and hydrogen sulfide was a contributing cause for a myocardial infarct.

Expert in Toxicology (Plaintiff) regarding indoor air pollution with respect to paradichlorobenzene and naphthalene.

Litigation Support for Cr VI Contamination. (Defense) Assess chemical analytical data and review the literature data base to determine the association of Cr VI exposure through drinking water with specific cases of cancer alleged by the plaintiffs, Hinckley, CA.

Litigation Support for Tryptophan Exposure. (Defense). Reviewed files, records and literature for the defense on the association of Tryptophan exposure and Eosinophilia Myalgia Syndrome (EMS).

Litigation Support Sulfur Dioxide Release. (Defense) For a refinery support facility, reviewed files, reports and literature regarding a fire incident that released sulfur dioxide into the surrounding community.

Litigation Support for Synthetic Machine Oil. (Defense). For a major oil company, provided expert testimony regarding the alleged health effects associated with the inhalation of a synthetic machine oil. Also provided the company with suggestions on improving their MSDSs.

Expert Witness (Plaintiff) Multiphased million dollar law suit.. As an expert witness for the plaintiffs, testified about proper warnings on manufacturers MSDSs, proper warning labels and proper worker right-to-know procedures for a multitude of chemicals and components (Lockheed).

Expert in Toxicology (Defense) for PCB exposure and toxic tort cases where the plaintiff claimed a variety of ills allegedly attributed to exposure to PCBs.

Expert in Toxicology for asbestos exposure. A contractor was requested to conduct an asbestos abatement of a private dwelling prior to transfer of the property. The new owner subsequently discovered that the abatement had been conducted improperly and insufficiently and sued for contract violations and toxic tort issues.

Expert in Toxicology for nuisance dust exposures. Witness for the defense where plaintiffs claimed health effects and property damage related to nuisance dust exposures.

Expert in Toxicology for chlorine exposure. As a witness for the plaintiff, constructed a theoretical model capable of explaining plaintiffs allegation of eye damage due to chlorine exposure in a swimming pool.

Expert Witness for the people of California for local District Attorneys seeking felony convictions or Grand Jury Indictments for hazardous waste dischargers. Assisted the Grand Jury in their determinations regarding a defendant accused of midnight dumping of hazardous materials.

Toxicology Expert and Witness - Assessment of three major Chevron spills in CO, ID and CA. Within a two year period, Chevron Inc. discovered three major product spills. One associated with a retail outlet, one associated with a pipeline pumping terminal and one associated with a major refinery. As the major toxicology consultant for all three of these sites, I was responsible for assuring environmental and human health protection, provided counsel to the facility managers, assessed engineering proposal for mitigation, attended city and public hearings on the progress of mitigation. Liaised with state and local regulatory personnel and provided advice and technical support to legal counsel.

Principal Toxicology Advisor and Environmental Assessor for PCB contaminated gas production facilities. Past practice at gas and oil production facilities used PCB in large electrical transformers or a heat transfer medium. Such practices led to spillage and subsequent concern by the workers at these facilities. As the principal toxicology advisor I was responsible for conducting safety and public meeting that conveyed the potential hazards to the workers and their families as well as advise on the health and environmental impacts of mitigation procedures.

Senior Toxicologist for Environmental Assessments related to Petroleum Products at the Chevron Environmental Health Center. This position involved RCRA hazard and risk assessments mainly for non-occupational exposures to a variety of petroleum products. Principal toxicological advisor on three major spill regarding motor fuels, organic lead and crude oil. Assisted in the safety training of Chevron personnel associated with the Waste Discharge Order.

Expert Witness for toxicological issues related to solvent exposures, particularly BETX exposures. Supplied expert witness testimony on the potential and alleged toxic effects of solvents and their mixtures in several toxic tort litigation cases.

Expert in Toxicology for toxicological issues in a mal-practice suit filed against a lawyer. A lawyer's client was unhappy with the attorney's pursuit of a toxic tort claim and filed a malpractice suit against the lawyer. As a toxicology expert for the defense, I supplied evidence that the original claim had no initial merit and hence the subsequent claim was superficial.

Expert in Toxicology regarding occupational exposure to toxic materials at a clinical chemistry medical laboratory. This case involved a carpet cleaning company that attempted to remove stains from the carpeting in the reception area of the laboratory facility. Subsequently there were complaints from an employee that led to toxic tort litigation. As an expert for the defense, the alleged condition was reenacted and the findings indicated that occupational exposure limits for toluene were not exceeded.

Industrial Hygiene

CAC for asbestos and lead inspection of a forty office complex and storage facility in Sunnyvale, CA prior to demolition.

CAC for asbestos and lead inspection of a four building office complex in Sacramento, CA as part of a due diligence property transfer.

CAC for asbestos and lead inspection prior to the demolition of the Systron offices and manufacturing facility in Concord, CA.

CIH for oversight on well drilling operations at Hunter's Point Naval Station, San Francisco, CA.

CIH for oversight on lead based paint abatement and "Trigger Tasks" of structural steel members for retrofit strengthening of building for new equipment installation at Vishay Siliconix, Santa Clara, CA.

CIH for oversight for Cingular wireless on lead based paint encroachment due to antenna installation in Stockton, CA.

CIH for noise monitoring of personnel in response to a Cal/OSHA citation at Western States Glass in Fremont, CA.

CIH for Western States Glass for training on fire extinguisher use, hazard communication, lockout and tagout procedures, noise survey monitoring, fire protection plan and hazardous chemical inventory.

CIH for oversight on the construction of levees for wetland restoration at Hamilton Air Base in Novato, CA..

CAC Asbestos and Lead Inspector for a due diligence survey of the Modern Ice Storage facility in Fremont, CA.

CIH for oversight and preparation of the Health & Safety Plan for the Remedial Investigation and clean-up of a former Junk Yard in Richmond, California.

CIH for oversight on the relocation and capping of HWMU 43 landfill at Dugway Proving Ground, Utah.

CIH for noise survey and monitoring at Palm Source Facility in San Jose, CA.

CAC for asbestos assessment for the former theater building at Fort Ord, California.

CIH for auditing and monitoring welding fume and lead fume exposure at an pipe and ironworks manufacturing facility in Vacaville, CA. Also developed an lead management and compliance plan for this same facility.

Compliance Auditor for Health & Safety in a facility-wide compliance inspection of the Goodrich facility in Fairfield, CA. that specializes in explosive manufacture

CIH for oversight on the excavation, and transfer of a pesticide landfill and installation of a bentonite enhanced landfill cap at Travis Air Force Base, Fairfield, CA.

CIH for oversight on the installation of a SVE system at Piedmont Lumber, Walnut Creek, CA.

CIH for oversight on the OE clearance of multiple ranges at Fort Ord, Monterey, California, following a eucalyptus and poison sumac burn.

CIH for oversight on rock crushing operation at Mare Island, Vallejo, CA.

CAC for asbestos and lead assessments of multiple potential antenna stations for Cingular Wireless Company.

CAC for asbestos inspection prior to demolition of a building in Winters, CA.

CIH for oversight on a Phytoremediation Pilot Study on underground industrial contaminants at Hunter's Point, California.

CIH for oversight on well drilling operations at Hamilton Air Force Base, Novato, CA.

CAC for asbestos and lead assessment of surplus buildings and facilities at the NASA Crow's Landing Flight Facility, Crows Landing, CA.

CIH. Conducted approximately 100 ergonomic work station evaluations for personnel at the Shaw hub office and its satellites.

CAC. Conducted asbestos inspections of over a dozen bridges and sound walls for Caltran. Structures are planned for demolition.

CIH and Task Manager for oversight for the asbestos and mold abatement of Building 17 at the NASA Ames Center in Mountainview, CA.

CAC. Conducted an inspection, and sampling for asbestos and prepared an asbestos abatement plan for the removal of subterranean sewage pipe at HWMU 47 at Dugway Proving Ground.

CIH. Oversight CIH for the cleanup and removal of 3 sewage lagoons at Dugway Proving Ground, Utah.

CIH. Conducted a Due Diligence asbestos inspection for the property transfer of Campus Gardens, a large apartment complex, in Sacramento, CA.

CIH. Conducted an asbestos inspection in 4 burnt out apartments prior to renovation and reconstruction at Pathfinder Village in Fremont, CA.

CIH. Conducted cyanide air monitoring and area sampling during a silver plating operation at Northrup Grumman Center in Newark, CA

CIH for oversight and the cleanup of an industrial waste site contaminated with TPH and industrial solvents at the Army Defense Distribution Depot in Tracy, California.

CIH for assessment of transitory high level noise and nuisance dust exposures at the Morton Salt packaging facility in Newark, CA.

CIH for noise monitoring and nuisance dust monitoring at the Morton Salt packaging facility in Newark, CA

CIH for evaluation and assessment of lead contamination to neighboring businesses and the environment attributed to an indoor shooting range in Sparks, Nevada.

CIH and H&S Officer for an IDLH methane atmosphere confined space entry into a 10 ft x 52 ft well dug into a municipal landfill at Kirby Canyon, Morgan Hill, CA.

CIH and Consultant for the transfer of asbestos and medical waste from one cell to another at the Andersen Landfill in Andersen, CA.

CIH and H&S Officer for the clean up of a small arms fire range at Dugway Proving Ground, Utah.

CIH for oversight and preparation of Health & Safety Plans on more than a dozen UST fuel tank pulls throughout California.

CIH for oversight regarding air monitoring for TNT exposures and Heat Stress at the Army Depot in Hawthorne, NV.

CIH for oversight for the offshore remedial investigation for fuel and chlorinated solvent contamination at the Oakland Army Base, Oakland, CA.

Auditing CIH on a Caltrans Stormwater Pilot Plant in South Lake Tahoe for Cal/OSHA compliance, general occupational safety and NPDES compliance.

CIH for oversight on the management of UXO and CWM during remediation efforts at Dugway Proving Grounds, Utah.

CIH for oversight for groundwater monitoring, landfill closure, PCB clean up and Imhoff Tank demolition at Dugway Proving Grounds, Utah.

CIH for oversight on the O & M of Pacheco Landfill, Contra Costa County. Site audit conducted one day prior to a Cal/OSHA inspection prevented fines associated with non-compliance.

CIH for oversight compliance and development of O & M safety plans on the rehabilitation of copper mine adits and drifts at the Iron Mountain Mine in Redding, CA.

CIH and Onsite Safety Officer for the cleanout of a 500,000 gallon liquid hazardous waste tank at the Altamont Wastewater Treatment Plant in Altamont, CA.

CIH and Consultant for environmental cleanup of asbestos and ancillary debris piles and buildings at the Stewart Facility in Carson City, Nevada

CIH Consultant to the US Postal Service for the PCB cleanup of the Postal Building at SF International Airport. The PCB spill was due to failure of the contractor to follow the correct work plan during demolition and reconstruction..

CIH Training. Conducted special ergonomic training for over 90 individuals working with office equipment. Evaluated over 24 work stations for worker ergonomic fit on request.

CIH for oversight and QA on the demolition of the southern wing of Stilwell Hall at Fort Ord, Monterey, CA. The building was in danger of collapse due to beach/cliff erosion. Building demolition required special concerns due to the presence of asbestos and lead in surface coatings, boiler room and pipeways.

CIH for oversight on the demolition of an AST at Fort Ord, Monterey, CA. Issues of concern were lead paint and hydrocarbon contamination of soil.

CIH for oversight at the construction of the north anchor point for a PG&E pipeline across the Carquinez Straights Bridge.

CIH for investigation and air sampling for mold contamination in a new residence located in Pleasanton, CA.

CIH for oversight regarding indoor air quality for mold and bacteria at the Carson-Tahoe Medical Facility in Nevada.

CIH for oversight on a mold infiltration, abatement and renovation of a private residence in Reno, Nevada

IAQ Consultant for possible black/grey water intrusion onto the property and into the building undergoing extensive renovation in Mill Valley, CA.

IAQ Consultant for mold infiltration following a swimming pool flood event at Acalanes High School, Lafayette, CA

IAQ Consultant and Toxicologist for mold and coliform bacteria infiltration following a December flood of office facilities at Pearl Harbor Naval Station, Honolulu, HI.

IAQ and Mold Consultant for a single family residence in Sacramento, California. Primary complaint was adverse health effects associated with the residence.

IAQ and Mold Consultant for a 4 unit apartment complex in Santa Rosa, California. Primary complaint was severe mold infestation of outer walls of the units.

CIH and IAQ Consultant for the asbestos and mold abatement of Building 17 at the NASA Ames Center in Mountainview, CA.

CIH and IAQ Consultant to Harvest Festival Foods office space in Novato California. Employee registered general and subjective health complaints.

CIH on IAQ regarding mold intrusion in a private residence in Hayward, CA.

IAQ Consultant regarding mold infiltration at a Marriott Motel in Hayward following a swimming pool flood incident.

IAQ Consultant regarding allegations of workplace induced health effects at Harrah's, Lake Tahoe.

IAQ Consultant regarding allegations of health effects at the Hilton Hotel in Reno Nevada.

IAQ Consultant at the AT&T switching and relay station in Reno, Nevada

IAQ Investigator. Conducted indoor air survey for a distressed home in San Francisco for the presence of carbon monoxide emanating from the heating system and penetrating the living space.

IAQ Investigator. Conducted an indoor air survey for foul odors for an apartment unit in Fremont CA. Identified mold source emanating from faulty bathroom grouting and mold growth.

IAQ Investigator. Conducted an indoor air survey and performed air sampling for a distressed home in Alameda, CA. Chemical of concern was dichlorobenzene and possible adducts.

IAQ Investigator. Conducted indoor ventilation and heat assessment for a private apartment dweller in Berkeley CA. Identified lack of suitable insulation and faulty thermostat connections as the cause of excessive heat.

IAQ and Toxicology Consultant for health concerns in the workplace during asbestos abatement activities at the Marin County Civic Center, San Raphael, CA

CIH for oversight of the PCB, lead and hydrocarbon cleanup of the PG&E former Key Trolley substation in Piedmont, CA.

CIH for the preparation of the Health & Safety Plan for the cleanup of a former oil recovery/recycling operation in Fresno, CA.

CIH for the preparation of the Health & Safety plan for the cleanup of a former oil field in Hayward, CA.

CIH for the audit/inspection/evaluation of a gas recovery operation associated with a municipal solid waste facility in Altamont, CA.

CIH for oversight during the updating of a PG&E powerplant facility and former town gas site in South San Francisco, CA.

CIH. Conducted a Safety & Health audit and inspection for a small manufacturer of nitroparaffins (explosives) in Las Vegas, Nevada.

CIH for oversight for National Parks Service for sites at Death Valley, Pinnacles, Yellowstone and Lake Mead. Projects involves USTs, asbestos products and general waste site investigations.

CIH for oversight related to PCB and hazardous waste investigations and clean up at the Army Depot in Ogden, Utah.

CIH for oversight related to UXO and CWM investigations at Dugway Proving Ground, Utah.

CIH for oversight related to the D&D of PG&E cooling towers in Hinckley CA and Topock AZ.

CIH for oversight activities related to surface water diversions at the Sulfur Bank Mercury Mine in Clear Lake, CA.

CIH for the collection of air samples during re-roofing operations at the Marin County Civic Center.

CIH for the preparation of an IIMP for an electrical contractor in the state of Nevada. Plan was completed on day prior to an OSHA inspection. Client avoided significant compliance fines.

CIH for the preparation of the Health & Safety Plan associated with the remedial investigation of the Motorola Superfund site in Phoenix, AZ.

CIH for oversight for the mercury cleanup at Rocketdyne.2. CIH for oversight on activities related to the cleanup of wastes, and hazardous wastes at the former Oakland Army Base in Oakland CA.

CIH for auditing, inspection and oversight for O&M operations at the Casmalia, California land fill.

CIH for oversight on the mercury mine tailing clean-up at the Indian reservation at Clear Lake CA.

CIH for an extended Phase I assessment for PG&E. Chemicals of concern included gasoline condensate, mercury, asbestos, lead and other hazardous materials. Oakley, CA.

CIH for the conduct of a focused asbestos and lead survey at Lemoore National Laboratories, CA. This multitask project included the upgrade and renovation of the HVAC system in several office buildings such as the Flight Simulation Center, Base Control Operations and the primary filters associated with the potable water treatment system.

Trainer. Conduct initial site Safety & Health Training for Sacramento TERC II program sites.

California Lead Designer. Designed and wrote a medical surveillance plan for lead exposures for a northern California contractor.

CIH. Conducted personnel and area monitoring for welding fumes at a building retrofit operation in Redwood City, CA.

Auditor. Health and Safety Audit for hypochlorite handling practices for EBMUD.

Oversight CIH on the EBMUD modernization plans for the Oakland Waste Water Treatment Facility.

Reviewed and recommended updating of site specific asbestos and lead Health & Safety Plans for a construction company in northern California.

Reviewed and Updated Corporate Health and Safety Plans for ICF Kaiser Engineers for all aspects of construction.

Oversight CIH on multi-site surveys. Provided oversight on the sampling and assessment of asbestos, lead and indoor air in multiple buildings and branch offices for a California Bank.

Oversight CIH on multi-site asbestos surveys. Supervised asbestos surveys of district facilities of the United States Postal Service in the state of Washington.

Oversight CIH on the D&D of General Dynamics Lindbergh Field Facility. Supervised the preparation of the Health and Safety Plan and provided support and oversight to the Site Safety and Health Officer during the decommissioning and demolition of this 93 acre airplane manufacturing site. The primary chemical hazards were occupational and environmental exposures and releases of asbestos and lead. The primary physical hazards were associated with fall protection, falling object protection and heavy equipment traffic.

Field Health & Safety Officer (CIH). Ensured compliance with OSHA regulations and conducted personnel and area sampling for dust, metals, dioxins and other organics at a former wood treating facility in Selma, California.

Assessor of toxic testing methodology application to refinery streams at Texaco refineries. Due to concern over the lack of toxicity data on refinery streams, Texaco Inc. requested a "decision tree" and matrix system to establish an organized approach to collecting the necessary toxicity information. The final document included the recommendation of additional physical, chemical, biological and animal testing.

Toxicology expert and public relations representative. Activities were related to environmental PCB contaminated sites and product contamination in Alaska and California.

Instructor. Organizer and participating instructor for the OSHA 40 hour training course that was presented four times for ICF Kaiser personnel. Also, participating Instructor for emergency response training course at Lawrence Livermore National Labs.

Instructor. Organizer and participating instructor for the OSHA 8 hour Supervisor training course

Occupational Safety and Health. Written or reviewed numerous Site Specific Health & Safety Plans, Operations and Management Plans and Chemical Data Acquisition Plans for clients.

RDF Risk Assessment. Prepared Scope-of-Work for conducting Risk Assessments for mass burn and refuse derived fuel (RDF) waste-to-energy facilities.

Instructor and field oversight for stack emission testing on a desalinization facility in Saudi Arabia. Current practices of fueling the boilers and controlling the emissions were reviewed for the principal desalinization facility in Jeddah. Stack emission testing was performed before and after modification of the fueling operation to study the optimal fuel/additive ratio that would prolong the life of the facility and minimize pollution. The technical theory, actual stack sampling and practical applications of the effort was also taught to the local technicians.

Designed the experimental protocol and prepared the Health and Safety Plan for testing efficacy of algacide treatment of a PG&E power canal. In an effort to reduce algal fouling of a power canal, PG&E requested an implementation protocol for cleaning the canal with sodium hypochlorite.

Prepared Scope-of-Work for conducting an EIR for a mixed waste storage facility. A public client requested a work plan for conducting an EIR for the siting of a LLWSF.

AFFILIATIONS (Past and Present)

1. Honor Societies: Sigma Xi, Phi Sigma, and TriBeta.
2. AAAS - American Association for the Advancement of Science.
3. Society of Toxicology.
4. American College of Toxicology.
5. American Industrial Hygiene Association.
6. Northern California Association of Environmental Genetics.
7. American Academy Clinical Toxicology.
8. American Academy Poison Control Centers.
9. International Society for the Study of Xenobiotics.
10. Certified, American Board of Toxicology, September, 1980. Recertified 1985; 1990; 1995, 2000.
11. Editor in Chief, Journal of Applied Toxicology, 1985-1988; Assistant Editor, Journal of Applied Toxicology, 1981-1985; Referee for the J. Applied Toxicology.
12. President, Northern California Section, Society of Toxicology, 1989-1990; President Elect, 1988-1989; Vice President, 1986-1988.
13. Chairman, Constitution Committee, NorCal SOT, 1990-1991; Chairman, Nominating Committee, NorCal SOT, 1991-1994.
14. Secretary, Roundtable Toxicology Consultants, 1987. Newsletter Editor, 1987-1990.
15. Director Placement Service, Society of Toxicology, 1991-1992; Assistant Director, 1989-1991; Committee Member, 1988.
16. Cal/OSHA Air Contaminants Advisory Committee (5155) 1990-1991.
17. Expert Panel Member, Toxics Awareness Project, San Francisco, CA, 1987-1990.
18. Adjunct Instructor, U.C. Berkeley, Hazardous Materials Handling and Risk Assessment (1995- pres.).
19. Instructor for ICF Kaiser 40 Hour OSHA Hazardous Materials Training Course.
20. Member, American Board of Forensic Examiners.
21. Referee, Neurotoxicology, an International Journal.
22. Member American Industrial Hygiene Association and Northern California Industrial Hygiene Association.

LITIGATION EXPERIENCE

More than 200 cases. Cases include evaluation of:

1. Petroleum Hydrocarbons including process intermediates and finished products)
2. Generic Chemicals (e.g., TDI)
3. Food Additives and Contaminants (e.g., L-tryptophan).
4. Synthetic Chemicals (e.g., PCBs)
5. Pesticides (e.g., chlorpyrifos).
6. Fibrous Materials (e.g., asbestos).
7. Product Labeling.
8. Pharmaceuticals including drug interactions (Tryptophan)
9. Pool Chemicals (e.g., hypochlorite)
10. Public exposures to industrial chemicals (e.g., SO₂).
11. Indoor Air (including molds).
12. Expert Witness for People of California on Hazardous Wastes, 1987-1988.

PUBLICATIONS

1. W.C. Corning and R. Von Burg, 1967. Behavioral and Neurophysiological Studies of *Limulus polyphemus*. In: "Invertebrate Neurobiology," (J. Salanki, ed.) Plenum Press, New York, pg 463-477.
2. R. Von Burg and W.C. Corning, 1967. Central Nervous System Regulation of Cardiac Rhythms in *Limulus polyphemus*. *Am. Zool.* 7:771 (Abstract)
3. R. Von Burg and W.C. Corning, 1968. Neurologically Active Drugs in *Limulus* Central Nervous System. *Am. Zool.* 8:379d (Abstract).
4. R. Von Burg and W.C. Corning, 1969. Cardioinhibition in *Limulus*. *Canadian J. Zool.* 47:735-737.
5. R. Von Burg and W.C. Corning, 1970. Cardiorespiratory Properties of the Abdominal Ganglia in *Limulus*. *Canadian J. Physiol. and Pharm.* 48:333-341.
6. W.C. Corning & R. Von Burg, 1970. Neural Origin of Cardioperiodicities in *Limulus*. *Canadian J. Zool.* 48:1450-54.
7. W.C. Corning, R. Von Burg and R. LaHue, 1970. Endogenous and Exogenous Influences of *Limulus* Heart Rhythm. *Am. Zool.* 10:303 (200). (Abstract).
8. W.C. Corning and R. Von Burg, 1970. Protozoan Learning - A bibliography. *J. Biol. Psych.* XII:91-96.
9. W.C. Corning, R. LaHue and R. Von Burg, 1971. Supraesophageal Ganglia Influences on *Limulus* Heart Rhythm: Confirmatory Evidence. *Canadian J. Physiol. and Pharm.* 49:387-393.
10. J.C. Smith, T.W. Clarkson, M. Greenwood, R. Von Burg and E. Laselle, 1971. The Form of Mercury in North Atlantic Fish. *Fed. Proc.* 156.
11. R. Von Burg and W.C. Corning, 1971. The Effects of Drugs on *Limulus* Cardioreceptors. *Canadian J. Physiol. and Pharm.* 49:1044-1048.
12. W.C. Corning and R. Von Burg, 1973. Protozoa. In: "Invertebrate Learning." Volume I, (Corning, W.C. et al., editors). Publishers, Plenum Press, New York.
13. R. Von Burg, H. Rustam and L. Amin-Zaki, 1973. Efficacy of Prostigmine Therapy on Methylmercury Poisoned Patients. *New England, J. Med.* 289:1202-1203.
14. R. Von Burg and H. Rustam, 1974. Nerve Conduction Studies on Methylmercury Poisoned Patients. *Bull. Environ. Contam. and Toxicol.* 12:81-85.
15. R. Von Burg and H. Rustam, 1974. Neurophysiological and Electromyographic Studies on Methylmercury Poisoned Patients in Iraq. *EEG and Clinical Neurophysiology.* 37:381-392.
16. R. Von Burg, R. Farris and J.C. Smith, 1974. Determination of Methylmercury in Blood by Gas Chromatography. *J. Chromatography.* 97:65-70.
17. F. Farris, R. Von Burg and J.C. Smith, 1974. Gas Chromatography Determination of Organomercury Compounds in Samples from the Iraq Epidemic. *Proc. Conference on Intoxication Due to Alkylmercury Treated Seed.* Baghdad. World Health Organization, Geneva, Switzerland.
18. J.C. Smith, F. Farris and R. Von Burg, 1974. Chemical Type of Mercury in Patients in the Outbreak in Iraq. *Proc. Conference on Intoxication Due to Alkylmercury Treated Seed.* Baghdad. World Health Organization, Geneva, Switzerland.
19. R. Von Burg, H. Rustam, L. Amin-Zaki and X. El-Hassani, 1974. Electrophysiological Observations on Methylmercury Treated Seed. *Proc. Conference on Intoxication Due to Alkylmercury Treated Seed.* Baghdad. World Health Organization, Geneva, Switzerland.
20. H. Rustam, T. Hamdi, and R. Von Burg, 1974. Methylmercury Poisoning In Iraq, A Neurological Study. *Proc. Conference on Intoxication Due to Alkylmercury Treated Seed.* Baghdad. World Health Organization, Geneva, Switzerland.
21. H. Rustam, R. Von Burg and L. Amin-Zaki, 1975. Evidence for Neuromuscular Disorder in Moderate to Severe Methylmercury Intoxication. *Archiv. for Environ. Health.* 30:190-195.
22. A. Lijoi, C. Smith and R. Von Burg, 1975. Changes in Oxygen Consumption of Surviving Liver Slices Exposed to Methylmercury. *Northeast Regional Meeting of the Division of Comparative Physiological and Biochemistry.* New York.
23. R. Von Burg and T. Landry, 1975. In Vitro Evidence for a Neuromuscular Blockade by Methylmercury Chloride. *International Conference on Heavy Metals in the Environment.* Toronto, Canada.
24. R. Von Burg and T. Landry, 1975. Methylmercury Induced Neuromuscular Dysfunction in the Rat. *Neuroscience Letters.* 1:169-172.
25. A. Lijoi and R. Von Burg, 1976. Changes in Oxygen Consumption of Surviving Liver, Kidney, and Brain Slices Exposed to Methylmercury. *AIBS Meeting, New Orleans, LA.*
26. A. Lijoi and R. Von Burg, 1976. Changes in Oxygen Consumption of Surviving Liver, Kidney and Brain Slices Exposed to Methylmercury. *Am. Zool.* 16:255 (426).
27. R. Von Burg & T. Landry, 1976. Methylmercury and the Skeletal Muscle Receptor. *J. Pharm. Pharmacol.* 28:548-551.
28. R. Von Burg, 1976. Book Review: Trace Elements in Human Nutrition. *Med. Res. Engineering.* 12(1):32.
29. R. Von Burg, A. Lijoi and C. Smith, 1979. Oxygen Consumption of Rat Tissue Slices Exposed to Methylmercury in Vitro. *Neuroscience Letters.* 14:309-414.
30. R. Von Burg and P.J. Conroy, 1979. Evaluation of the Anticholinesterase Activity of Metronidazole and Misonidazole. *Europ. J. Pharmacol.* 55:417-420.
31. R. Von Burg, F. Northington, and A. Shamoo, 1979. Methylmercury Inhibition of Muscarinic Receptors in the Rat. *Fed. Proc.* 38:1400. Abstract #6181.
32. R. Von Burg and J.C. Smith, 1979. Mobilization of Liver Cadmium by BAL. *Tox. Appl. Pharmacol.* 4:Suppl. A. 114.

33. R. Von Burg, P. Conroy and W. Passalacqua, 1979. Peripheral Electrophysiological Parameters in Mice Treated with Misonidazole. *Brit. J. Cancer.* 40:134-143.
34. P. Conroy, R. Von Burg, W. Passalacqua, D. Penny and R. Sutherland, 1979. Misonidazole Neurotoxicity in the Mouse: Evaluation of Functional, Pharmacokinetic, Electrophysiologic and Morphologic Parameters. *International J. Rad. Oncol. Biol. and Phys.* 5:983:991.
35. R. Von Burg and D. Penny, 1979. Acrylamide Neurotoxicity in the Mouse: Behavioral, Electro-physiological and Morphological Study. (Abstract). *Internat.'l Congress of Neurotoxicology.* Varese, Italy, Sept. 27-30.
36. P. Conroy, R. Von Burg, W. Passalacqua and R. Sutherland, 1980. The Effect of Misonidazole on Some Physiologic and Metabolic Parameters in Mice. *J. Pharmacol. Exp. Therapeu.* 212:47-52.
37. R. Von Burg, P. Conroy, D. Penny, W. Passalacqua and R. Sutherland. 1980. Effects of Acute and Chronic Misonidazole Administration on Peripheral Nerve Electrophysiology in Mice. *Brit. J. Cancer.* 41:523:528.
38. R. Von Burg, R. Northington and A. Shamoo, 1980. Methylmercury Inhibition of Rat Brain Muscarinic Receptors. *Toxicol. and Appl. Pharmacol.* 57:119-215.
39. R. Von Burg and J.C. Smith, 1980. Biliary Mobilization of Cadmium by BAL and Some Related Compounds. *J. Toxicol. and Environ. Health.* 6:75-85.
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51. M. R. Greenwood and R. Von Burg, 1984. Quecksilber. In: "Metalle in der Umwelt." Editor, E. Merian, Verlag Chemie, Publisher, Deerfield Beach, Florida.
52. R. Von Burg, 1985. Book Review: Treatment and Disposal of Hazardous Waste. *J. Appl. Toxicol.* 5:110.
53. R. Von Burg, 1985. Book Review: The Dose Makes the Poison. A Plain Language Guide to Toxicology. *J. Appl. Toxicol.* 5:110.
54. R. Von Burg, 1986. Book Review: Chlorinated Dioxins and Dibenzofurans in the Total Environment II. *J. Appl. Toxicol.* 6:381.
55. R. Stranberg, F. Ciofalo, R. Von Burg and R. Turkington, 1986. Smoke Components and Fire Toxicity: A Report by the Department of Industrial Relations for the Department of Health Services. Ron Rinaldi, Director. California OSHA.
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58. R. Von Burg, 1987. Book Review: Photobiology of the Skin and Eye. *J. Appl. Toxicol.* 7:354.
59. R. Von Burg, 1988. Book Review: Silent Spring Revisited. *J. Appl. Toxicol.* 8:149.
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61. R. Von Burg, 1988. Book Review: Solving Hazardous Waste Problems: Learning from Dioxins. *J. Appl. Toxicol.* 8(2):151-152.
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66. R. Von Burg, 1989. The Chemical Risk Assessment. Distinguishing a Hazard from a Risk. 1989 Conference on Municipal Solid Waste as a Utility Fuel. October 10-12. Springfield, Mass.
67. R. Von Burg, 1989. Chemical Risk Assessments: Science or Science Fiction. Presented at: Total Exposure Assessment Methodology, New Horizons. November 28-30, 1989, Las Vegas, Nevada.
68. R. Von Burg, M. Lakin, B. Thomas & B. Egan. 1990. Public Interest Group use of your SARA 313 Data. NPRA 88th Annual Meeting. San Antonio Texas. March 25-27, 1990.
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70. R. Von Burg, 1990. Application of the Health Risk Assessment to Metal Casting Foundries. California Cast Metal Association. May 10th, 1990. San Francisco, CA.
71. R. Von Burg, 1991. Human Health and Environmental Risk. Successful Air Strategies. May 6-7, 1991. Seattle, Washington.

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79. R. Von Burg, 1992. Boron, Boric Acid, Borates and Boron Oxide. Toxicology Update. J. Appl. Toxicol. 12:149-152.
80. R. Von Burg and T. Stout, 1992. Creosote. Toxicology Update. J. Appl. Toxicol. 12:153-156.
81. R. Von Burg, 1992. Use of the Box Model to estimate air concentrations of perchloroethylene from an indoor chemical spill. Presented at the Annual meeting of the Northern California Chapter of the Society of Toxicology. June 4, 1992.
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84. M.C. Miller and R. Von Burg, 1993. Evaluating NSCs as COPCs at Hazardous Waste Sites. Northern California Society of Toxicology Meetings. June 2, 1993. Concord California.
85. M. Easter, R. Gentry, A. Shipp, K. Crump and R. Von Burg, 1993. Inappropriate Policy Needlessly Elevates CSF Estimates and Wastes Money. Northern California Society of Toxicology Meetings. June 2, 1993. Concord California.
86. R. Von Burg, 1993. Heading off Citizens Litigation; Getting the Real Risk Story to the Public. Invited guest lecturer. ICF Kaiser Engineers Annual Risk Assessment Meeting. Denver Colorado.
87. R. Von Burg, 1993. Risk Assessment for Petroleum Products. Invited lecture. ICF Kaiser Engineers, Environment Group West, Operations Review Meeting. San Francisco, CA. June 2 & 3, 1993.
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