



Christina J. Schwerdtfeger, Ph.D., REA

Coto Consulting, Inc.

AREAS OF EXPERTISE

- Strong Program and Management Skills
- Multi-Media Compliance Experience
- Regulatory Agency Negotiations
- Teamwork with Multiple Stakeholders
- Strong Writing and Speaking Skills
- Instructor in Various Academic Programs

EDUCATION

Rutgers University: BA, Chemistry, 1983
University of Southern California: PhD, Chemistry, 1987

REGISTRATIONS

GHG Lead Verifier, California Air Resources Board (ARB) Executive Order H-10-186
Registered Environmental Assessor (REA) No. 04367, California

REPRESENTATIVE EXPERIENCE

Christina Schwerdtfeger has 24 years experience in environmental consulting as a multi-media compliance and sustainability expert. Christina is a greenhouse gas (GHG) lead verifier who is accredited by the California Air Resources Board and is a Registered Environmental Assessor (REA) with the State of California, Department of Toxic Substances Control (DTSC).

Her strengths include: program management, regulatory compliance, strategic planning, sustainability, pollution prevention, agency negotiations and regulatory interpretations and exemptions.

Program Management Examples:

- For Marine Corps Base (MCB) Camp Pendleton, Dr. Schwerdtfeger served as Program Manager for a \$3 million IDIQ contract to support the Comprehensive Environmental Training and Education Program (CETEP).
- For Marine Corps Air Ground Combat Center (MCAGCC) Twentynine Palms, Dr. Schwerdtfeger served as Program Manager to help the Environmental Management System (EMS) Coordinator and CETEP Coordinator put procedures and tools in place to meet requirements from Headquarters Marine Corps (HQMC). This contract was funded at \$400,000 and took 18 months to complete all tasks.
- While employed at CH2M HILL, Dr. Schwerdtfeger served as the Regional Project Delivery Manager (PDM) and Vice President for 4 years. She managed a regional staff of 30 personnel and had profit and loss responsibility for her business unit. She prepared the annual business plans and reported a variety of financial metrics monthly, quarterly and annually to the Senior Vice President.

Climate Change Project Examples:

- Dr. Schwerdtfeger received accreditation from the California Air Resources Board under Executive Order H-10-186 to provide verification services to the refinery, cement, electricity and general stationary combustion sectors as a GHG lead verifier.
- Performed 3rd party greenhouse gas verifications for 28 facilities: 15 power plants, 2 refineries, 8 natural gas compressor stations, 1 pharmaceutical company, 1 telecommunications company and 1 news media company.



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- For ExxonMobil and XTO, Dr. Schwerdtfeger assisted with the creation of data collection systems and tools for over 30,000 onshore oil and natural gas production and processing facilities to support reporting to EPA under Subpart W of the GHG mandatory reporting rule. Her role has been to: provide senior level and quality assurance review of the data collection forms and equations; and assist with preparation of the GHG Management Plans.
- For Hexacomb Corporation, Dr. Schwerdtfeger completed a greenhouse gas (GHG) assessment to verify that the facility fell below the 25,000 metric ton threshold for reporting under Assembly Bill (AB) 32. Dr. Schwerdtfeger calculated carbon emissions from stationary combustion sources and indirect electricity usage using emission factors and protocols established by the California Climate Action Registry and regulations proposed by the California Air Resources Board (CARB).
- For Marine Corps Installations West (MCIWEST), Dr. Schwerdtfeger prepared a comprehensive GHG inventory and strategic plan. The objective was to create a stream-lined technical approach for quantifying GHG emissions and determine whether reporting is required under AB 32, EPA's MRR and EO 13514. This project also identified applicable early action measures, future GHG reductions and previous GHG reductions. Created a GHG Inventory Management Plan for the Las Pulgas Landfill. Dr. Schwerdtfeger co-presented her findings on this project with MCIWEST personnel at the 2009 Federal Environmental Symposium. This study included eight bases in the Southwest United States:
 - MCAS Yuma (including Main Base, Cannon Complex and Camp Billy Machen)
 - MCB Camp Pendleton
 - MCAS Camp Pendleton
 - MCLB Barstow
 - MCAGCC Twentynine Palms
 - MCAS Miramar
 - MCRD San Diego
 - MCMWTC Bridgeport
- For EPA's laboratories in Research Triangle Park, Dr. Schwerdtfeger evaluated the use of laboratory chemicals, research gases and refrigerants with high global warming potential. Quantified the use of each chemical for reporting under EO 13514.
- For MCIWEST, developed a management strategy and plan for the use and management of high GWP refrigerants and SF₆ at eight bases to comply with new regulations in California and at the federal level. Developed a training module to assist HVAC&R personnel with understanding the requirements in layman's terms. Oversaw field work to inventory equipment in the field. Served as a subject matter expert (SME) for the creation of an in-house web-based recordkeeping tool.
- For Jerry Leigh Apparel (JLA), quantified and reported Scope 1 and 2 GHG emissions for submittal to the Carbon Disclosure Project to assist with meeting the requirements of Walmart's Supplier Sustainability Program. Calculated GHG intensities going back to 2008 as a function of annual units sold and number of employees in order to assess overall performance and identify GHG reductions.
- For DOI's Office of Environmental Policy and Compliance (OEPC), evaluated the GHG emissions from fugitive sources including landfills, refrigeration systems, SF₆ and wastewater treatment from nine bureaus and wrote portions of the GHG Inventory Management Plan for:
 - Bureau of Indian Affairs



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- Bureau of Land Management
 - Bureau of Ocean Energy Management, Regulation and Enforcement
 - US Fish & Wildlife Service
 - National Business Center
 - National Park Service
 - Office of Surface Mining, Reclamation and Enforcement
 - Bureau of Reclamation
 - US Geological Survey
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- For Plains All American Pipeline, Dr. Schwerdtfeger served as a team member to assess the GHG impacts of a new pipeline and AST construction project. Dr. Schwerdtfeger identified the GHG assumptions and oversaw the completion of the detailed calculations. She also performed an analysis to determine the current regulatory requirements and upcoming actions from the Governor's Office of Planning and Research (OPR) under Senate Bill 97 pertaining to the California Environmental Quality Act (CEQA) and establishing GHG significance levels.
 - Under attorney-client privilege, Dr. Schwerdtfeger identified several options to offset the carbon emissions from a large new construction project in the Southern California area. She evaluated the cost, technical feasibility, public relations impact and risks of each option. Detailed analyses were completed for: an urban tree planting program, photovoltaic systems, and purchase of carbon offsets through a broker.
 - Served as the third party senior reviewer on the San Pedro Waterfront project to review GHG estimates, assumptions and mitigation measures in the Draft Environmental Impact Report (DEIR). This project is being proposed by the Port of Los Angeles to improve the public waterfront and open space areas, expand the cruise ship facilities and operations, expand commercial development and improve local transportation and parking. The construction is expected to take 7 years.
 - Served as the regulatory analyst for a confidential company to participate in CARB workshops on GHG reductions and AB32 implementation. Dr. Schwerdtfeger listens to the regulatory proposals and opinions, feedback and questions from other participants, summarizes the regulatory actions and technical issues, and develops a summary report to identify potential impacts to the client's operations and future plans.
 - Hosted and led online webinars to assist current and potential customers to understand the impact of climate change on their operations. Typical webinar titles were: "Calculating Your Carbon Footprint: Relief is on the Way!" and "Carbon Trading – What are the Potential Impacts to my Firm?"
 - For MCI West, Dr. Schwerdtfeger evaluated the impact of EPA's proposed rule for mandatory reporting of GHGs on eight bases. This effort includes recalculating GHG emissions from an earlier GHG inventory, calculating methane emissions from landfills using the IPCC model, identifying and analyzing differences between the state and federal programs, and developing a compliance strategy.
 - For the Los Angeles/Orange County Environmental Training Center, Dr. Schwerdtfeger developed and presented a 4-hour course entitled *GHG Compliance: Reality vs. Myth*.



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Sustainability Project Examples

- Developed a customized 4-hour course for a confidential client called “Sustainability and the ESH Strategic Direction”. This included a lecture, interactive exercises and customized examples to match the client’s operations and sustainability program.
- For Jerry Leigh Apparel, quantified sustainability metrics for reporting to Walmart’s Supplier Sustainability Program: Scope 1 and 2 GHG emissions, water use and solid waste diversion. Prepared and submitted corporate responses and strategy to CDP website.
- For MCB Camp Pendleton, Dr. Schwerdtfeger served as PM to evaluate the base’s progress towards the DOD’s Measures of Merit. (This was the DOD’s policy for its first sustainability program that contained numerical goals.) The key performance indices (KPIs) addressed: hazardous waste generation, release of toxic chemicals, disposal and recycling of non-hazardous waste, and acquisition of alternatively fueled vehicles. Dr. Schwerdtfeger collected data to quantify and assess the ongoing practices at the base. She demonstrated for the first time that the base was exceeding the waste reduction goals mandated by the DOD. MCB Camp Pendleton has received numerous awards from the Secretary of Defense for its environmental stewardship.
- As the first step in Northrop Corporation’s sustainability program, Dr. Schwerdtfeger developed a comprehensive waste management program which advocated a proactive 90% reduction of hazardous waste and toxic air emissions within 6 years. She created a policy statement and corporate-wide goals which were signed by the CEO and approved by the Board of Directors. Within 6 years, Northrop had exceeded its goals and received numerous state and federal awards for its innovation and environmental stewardship.
- The second step in Northrop Corporation’s sustainability program was to institute paper recycling measures for the corporate office and track non-hazardous waste recycling efforts in California. Dr. Schwerdtfeger worked with the public relations department to create a colorful coffee mug with the logo, “Northrop is Proud to Recycle, Reuse and Reduce”. She also developed an employee communication plan with a series of articles and pictures in the *Northrop News* featuring the CEO, herself and other employees involved in these sustainable business practices.
- For MCIWEST, completed a Gap Analysis for Executive Orders (EO’s) 13423: Strengthening Federal Environmental, Energy and Transportation Management. This is the federal government’s current policy that was issued in 2007 that contains metrics on sustainability. The EO covers: use of alternative vehicles, petroleum conservation, use of alternative fuels, energy efficiency, GHGs, renewable power, building performance, water conservation, procurement of environmentally-sound goods, electronics management (recycling and Energy Star), environmental mgmt systems. This assessment was expanded to include EO 13514: Federal Leadership in Environmental, Energy, and Economic Performance.
- Completed an inter-industry benchmark survey to determine the use of information systems in tracking and reporting sustainability metrics. Created a web-based survey and collected results on-line from companies over a two-month period. The respondents were responsible for over 44,000 sites in the United States and Canada, with annual revenues ranging from \$231 million to \$179 billion. Forty-eight percent of the respondents were on the Fortune 1000 list of companies. Based on the results of this study, Dr. Schwerdtfeger published “A Benchmark Study of Current Practices and Tools



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for Sustainability” in *Environmental Management*, a publication of the Air & Waste Management Association in October 2008.

- Created a 6-week online course for University of California Irvine called “Sustainability Reporting: Drivers, Protocols and Quantitative Methods” which has been taught every summer since 2009.

Air Quality Project Examples:

- For a confidential client, Dr. Schwerdtfeger researched air quality rules and regulations promulgated by SCAQMD and CARB for locomotives, rail yards and movement of goods. Her findings were incorporated into the client’s final report to identify current and upcoming emission control requirements for NO_x and diesel particulates, as well an implementation and compliance schedule.
- For Hexacomb, Dr. Schwerdtfeger served as PM for air quality permitting and regulatory support. Dr. Schwerdtfeger testified in front of the SCAQMD Hearing Board on two occasions for Hexacomb, obtained six permits, developed voluntary operating limits for hazardous air pollutants (HAPs), and prepared the annual emission reports (AERs) since 1999. Hexacomb continues to rely on her as a key member of their team with knowledge of their operations and history with SCAQMD.
- For Marine Corps Air Station (MCAS) Yuma, Dr. Schwerdtfeger served as PM for air quality support. This included inventorying all stationary and fugitive emission sources, preparing an air quality permit, conducting a hazardous material inventory, and preparing the EPCRA 312 and 313 submittals. Dr. Schwerdtfeger was able to obtain a NESHAP Permit Shield and avoid Title V by proposing and obtaining voluntary operating limits for MCAS Yuma. Dr. Schwerdtfeger also obtained an exemption from ADEQ for 400 non-road engines by providing regulatory precedents from other states and a technical justification to support changing the regulatory status of tactical ground support equipment (GSE).
- For Northrop Corporation, Dr. Schwerdtfeger assisted with the development of a corporate-wide program to implement Air Toxic Hot Spots (AB 2588) consistently throughout all California facilities. She helped develop the air toxics emission inventory plans (ATEIPs).
- For Plains All American pipeline, Dr. Schwerdtfeger participated in webcasts by CARB for rule-making on Reducing Emissions from Diesel-Fueled Auxiliary Engines on at-Berth Ocean-Going Vessels and summarized the impacts for her client and legal counsel.
- For Hughes Aircraft Company, Dr. Schwerdtfeger completed the EPCRA 313 submittals for the Toxic Release Inventory at the Torrance facility.
- For Northrop Corporation, Dr. Schwerdtfeger assisted with the development of a corporate-wide program to implement Air Toxic Hot Spots (AB 2588) consistently throughout all California facilities. She helped develop the air toxics emission inventory plans (ATEIPs).
- For a large airline, Dr. Schwerdtfeger completed an application to register one and cancel several portable engines used as ground support equipment. She also served as the PM on the annual emission inventory report for this client.
- Served as the regulatory analyst for a confidential company to participate in CARB workshops on proposed air quality regulations. Dr. Schwerdtfeger listened to the regulatory proposals and opinions, feedback and questions from other participants, summarized the regulatory actions and technical issues, and developed a summary report to identify potential impacts to the client’s operations and future plans.



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- For Plains All American Pipeline, Dr. Schwerdtfeger reviewed emission estimates and calculations for a Draft Environmental Impact Report (DEIR) being prepared by the Port of Los Angeles for the construction of Pier 400. This new facility will increase the amount of petroleum products available to local refineries in Southern California.
- For Eastern Municipal Water District (EMWD), Dr. Schwerdtfeger deconstructed 200 air quality permits for input into the environmental management information system (EMIS). EMWD wished to assign specific action items and deadlines to individuals in order to maintain compliance with over 1,800 discrete requirements in these permits.
- For a confidential client, Dr. Schwerdtfeger reviewed regulations and identified applicable requirements and constraints for operations under consideration: hot-ironing of ship engines; locomotives and switchyards; short-term emission reduction credits (STERCs); and feedstream analysis for possible use as fuels in a MSW incinerator. Each regulatory analysis was summarized and delivered as a short technical memorandum.
- Served as the Subject Matter Expert (SME) for development of two computer-based training (CBT) courses at MCI West – Air Quality Course and Refrigeration Management Course.

Attorney and Litigation Support Project Examples:

- Testified in front of the SCAQMD Hearing Board on two occasions in support of Hexacomb Corporation's requests for variances and assisted the legal team (Latham & Watkins and Jenner & Block) with defense and settlement negotiations related to a notice of violation.
- Provided technical support to Ameron with regard to a legal dispute over residual contamination at a property formerly leased by Ameron. Developed a timeline and maps from existing documents to prove contradictions in the plaintiff's claims.
- Provided technical support to legal counsel (Brownstein Hyatt Farber Schreck LLP) in a toxic tort case for a confidential client. Researched available data and potential sources of chemical exposure to assist with the creation of a timeline and GIS map related to the plaintiff's whereabouts. Also reviewed the client's health risk assessment and air toxics emissions inventory report (ATEIR) to identify areas of concern and assess the validity of the facility's assumptions, technical approach and calculations.
- Provided third party expertise for the identification, characterization and disposal of 20,000 ultra-capacitors (UCs) and other hazardous wastes during a bankruptcy proceeding. Assisted a potential purchaser and their legal counsel (Sheppard Mullin Richter & Hampton, LLP) to evaluate the potential environmental liability and associated cost of acquiring the assets of a company that developed, manufactured and distributed heavy-duty battery hybrid drive systems and energy storage systems.
- Participated in rule-making sessions with the California Air Resources Board related to greenhouse gases and shore power for ocean-going vessels ("cold ironing") to identify impacts to a petroleum client's operations. Prepared written summaries for the client and legal counsel (Weston, Benschopf, Rochefort, Rubalcava, MacCuish LLP).
- Provided technical support to a shipping company and their legal counsel (DeOrchis & Partners) during an appeals process to recover damages paid as a result of shipping and delivering cargo from the United States to a European destination that was contaminated with hydrofluoric acid.

Auditing Project Examples:

- For Chevron, Dr. Schwerdtfeger was the Project Manager on a multiple year program where approximately 100 TSDFs were evaluated to determine their financial stability, operational procedures



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and the potential for on-site contamination. She performed audits herself and oversaw junior staff to determine Chevron's risk associated with the long-term use of treatment, storage and disposal facilities (TSDFs).

- Dr. Schwerdtfeger audited several facilities in Southern California for Ameron to determine their compliance with federal, state and local environmental regulations. These sites manufacture concrete pipes and streetlight poles.
- Hill Pet Nutrition requested a multi-media compliance audit to assist the EHS Manager with identifying areas of improvement.
- For an asphalt refinery in California, Dr. Schwerdtfeger served a team member for a detailed compliance audit that EPA Region IX required as part of a settlement agreement with the facility operator. She was responsible for the following audit domains: air, EPCRA and GHGs. Each finding was categorized and substantiated with photos or other documentation.
- For Lockheed Martin, Dr. Schwerdtfeger served as the PM for an "exit audit" from the 20-acre Kearny Mesa facility in San Diego which had been leased for 2 years. Dr. Schwerdtfeger was able to show that Lockheed Martin had not damaged or contaminated the property during the lease period.
- For Northrop, served as PM on a pre-lease assessment of a sealant/coating repackaging warehouse facility in Southern California. Northrop's Electronics Systems Division wished to lease the facility and identify any potential liabilities left behind by the previous occupant.
- For Northrop, served as PM on a pre-lease assessment of 10 buildings at the Redstone Arsenal in Alabama for the Electronics Systems Division. Northrop intended to lease these buildings and needed to document previous activities and any potential liabilities from previous tenants. Of particular concern was the presence of explosives and energetic residuals from the previous tenant's rocket manufacturing process.

Training Project Examples:

- For MCB Camp Pendleton, Dr. Schwerdtfeger served as the Business Process Analyst for the integration of the Learning Management Portal (LMP) and Environmental Management Portal. She suggested functional changes to the client and programmers to add dashboard capability and graphical displays to illustrate the performance of the base against its targets and objectives.
- For MCAGCC Twentynine Palms, Dr. Schwerdtfeger prepared a base order for the Natural Resources and Environmental Affairs (NREA) Department and the Commanding General (CG) which outlined the roles, responsibilities, policy and requirements for the Comprehensive Environmental Training and Education Program (CETEP). Less than one month after submittal, it was signed by the CG and implemented at the base.
- For General Electric Aircraft Engines (GEAE), Dr. Schwerdtfeger served as the trainer for the introductory course on hazardous waste management.
- While serving as Project Delivery Manager at CH2M HILL, Dr. Schwerdtfeger provided regular training sessions to staff on a variety of project management topics. At least annually, she provided an intensive longer course on project financials and estimating and forecasting techniques.
- For BNSF Railway, performed a functional and user needs analysis to identify a new learning management system (LMS) for implementation. Reviewed BNSF's legacy software tools being used to manage its current training program and six commercial off-the-shelf (COTS) LMSs. Provided recommendations and cost estimates for selecting and implementing a single LMS for the entire company.



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- Developed a 6-week online course for UC Irvine's Continuing Education Program called "Sustainability Reporting – Drivers, Protocols and Quantitative Methods" which has been taught every summer since 2009. This is an elective course in the Sustainability Leadership Certificate Program.
- Developed and taught a 1-hour guest lecture for the Paul Merage School of Business at UC Irvine called "Sustainability and Supply Chain Management".
- Developed and delivered a 4-hour course called "*GHG Compliance: Reality vs. Myth*" for the Los Angeles / Orange County Environmental Training Center.
- Developed and taught a 4-hour course for a confidential Fortune 100 client called "Sustainability and the ESH Strategic Direction". This included lectures, interactive exercises and customized examples to match the client's operations and sustainability program.
- Developed and taught a 5-hour course for MBAs and Executive MBAs called *Key Concepts and Tools for Decision-makers*. Course was delivered at the Claremont Graduate University, Peter F. Drucker & Masatoshi Ito Graduate School of Management.
- Developed a 2-hr online course for Future Perfect called "GHG Verification – Best Practices and Basic Principles".
- Creating a ½ day course for Saddleback College's Community Education Department called "Save Money by Greening Your Business or Home" for delivery in Spring 2012.
- Creating a 2-day course for the Los Angeles / Orange County Environmental Training Center called "GHG Fundamental: Reality vs. Myth" which will be taught four times in 2012 under a grant from the Chancellor of the California Community College's Responsive Training Fund (RTF) Program.

Peer Review Roles:

National Science Foundation, 2005. Reviewed grant proposals for the Division of Chemistry's Discovery Corps Program.

Port of Los Angeles, 2009. Served as the third party senior reviewer on the San Pedro Waterfront project to review GHG estimates, assumptions and mitigation measures in the Draft Environmental Impact Report (DEIR).

Served as a peer reviewer for ERG to review applications submitted to EPA's Small Business Innovation Research (SBIR) program in the area of Greenhouse Gases.

PRESENTATIONS/PROCEEDINGS

1. Oliphant, R. and Schwerdtfeger, C. "Solvent Substitution for Electrical Equipment Cleaning" published as Chapter 5 in *Pollution Prevention Applications for Solvent Use* (EPRI, February 1995).
2. Oliphant, R. and Schwerdtfeger, C. "Rags: California Site" published as Chapter 6 in *Pollution Prevention Applications for Noncombustion Waste* (EPRI, January 1995).
3. Oliphant, R. and Schwerdtfeger, C. "Empty Containers" published as Chapter 6 in *Pollution Prevention Applications for Noncombustion Waste* (EPRI, January 1995).



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4. Schwerdtfeger, C and McHenry, J. "The Permitting and Regulatory Nightmares of Using EPA Method 24 to Determine the VOC Content of Water-Based Coatings and Adhesives." *Proceedings of the 93rd Annual Conference and Exhibition of the Air & Waste Management Association*. June 2000.
5. Schwerdtfeger, C. and Phillips, E. "An Emergency Response and Regulatory Compliance Tool for a Large Military Base in California." *Proceedings of the Fourth Tri-Service Environmental Technology Symposium*. June 2001.
6. Schwerdtfeger, C. "How to Select Permit Conditions to Ensure Maximum Operational Flexibility: A Case Study at a Cardboard Manufacturing Facility." *Proceedings of the 96th Annual Conference and Exhibition of the Air & Waste Management Association*. May 2003.
7. Schwerdtfeger, C., DeCosta, T., and Martinez, M. "A Recycling Exemption for Oil/Water Separator Waste at a Large Military Base in California." *Proceedings of the 96th Annual Conference and Exhibition of the Air & Waste Management Association*. May 2003.
8. Schwerdtfeger, C. and Schroeder, J. "A Benchmark Study of Current Practices and Tools for Sustainability." *Environmental Management, a publication of the Air & Waste Management Association*. October 2008.
9. Schwerdtfeger, C. and DeCosta, T. "The First Greenhouse Gas Assessment at Eight Bases Within Marine Corps Installations West". *2009 Federal Environmental Symposium*. June 2009.
10. *GHG Risks, Reporting and Stakeholders*. Southern California Joint Meeting of The Auditing Roundtable, The Institute of Internal Auditors & American Public Transportation Association. November 2009.
11. *Preparing for GHG Verification*. 2010 Winter Meeting & Technology Expo. The Auditing Roundtable. January 2010.
12. *An Inefficient and Costly Patchwork Quilt of GHG Reporting*. Energy, Utility & Environment Conference (EUEC). January 2011.

GUEST LECTURES/TRAINING SESSIONS

1. *Working as a Bench Chemist at Hughes Aircraft Company*. University of California Irvine, Industrial Chemistry Class. May 1998.
2. *Professional Opportunities for Chemists in an Environmental Consulting Firm*. University of Southern California, The Trojan Chemistry Club. October 1992.
3. *RCRA Generator Training for GEAE Employees*, General Electric Aircraft Engines. Palmdale, CA. July 1995.
4. *Environmental Concerns and Reasons for Technology Changes*. University of Southern California. Society of Women Engineers. 1996.
5. *Project Delivery Bootcamp*. CH2M HILL, presented annually 1999-2006.
6. *PM Training Session #1: Setup and Status of Projects*. EM-Assist. January 2007.
7. *Small Business Perspective: Recommendations to Improve Contracts and Contracting*. Marine Corps Installations West. Conservation Expo. March 2007.
8. *Sustainability/Green Careers - Panel Member*. University of California Irvine Extension. April 2009.



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9. *Sustainability Reporting – Drivers, Protocols and Quantitative Methods (a 6-week online course)*. University of California Irvine Extension Program. Taught each summer since 2009.
10. *GHG Compliance: Reality vs. Myth*. Los Angeles/Orange County Environmental Training Center. October 2009.
11. *Sustainability and Supply Chain Management*. University of California, Paul Merage School of Business. November 2009.
12. *Sustainability and the ESH Strategic Direction*. Confidential Fortune 100 Client. February 2010.
13. *Helping You Navigate GHG Compliance Issues at Various Regulatory Levels*. Los Angeles/Orange County Environmental Training Center. March 2010.
14. *Greenhouse Gases – Key Concepts and Tools for Decision-makers*. Claremont Graduate University. Peter F. Drucker & Masatoshi Ito Graduate School of Management. March 2010.
15. *Expert Host for Roundtable Discussion on Education*. Women in Green Forum. September 2010.
16. *2011 Career Fest. Speaker for “GREEN Spotlight”*. University of California Irvine. February 2011.
17. *Multi-media Environmental Compliance (a 6-week online course)*. University of California Irvine Extension Program. Fall 2011.

AWARDS

- Project Manager of the Year (Southern California). Radian International. December 1996.
- Project Manager of the Year (Southern California). Radian International. January 1999.
- Award for Excellent Mentoring and Coaching of Junior Staff. CH2M HILL. February 2001.
- Business Achievement Award for Consulting & Engineering (C&E) Firms: New Practice Areas: Climate Change and Sustainability. Environmental Business Journal. January 2010.
- Business Achievement Award for Consulting & Engineering (C&E) Firms: Climate Change Practice. Climate Change Business Journal. January 2010.
- Business Achievement Award for Consulting & Engineering (C&E) Firms: New Practice Areas: Climate Change and Sustainability. Environmental Business Journal. January 2011.
- Finalist for Outreach and Education. International Green Industry Hall of Fame. March 2011.

AFFILIATIONS

Los Angeles County Bar Association, Environmental Section

Air & Waste Management Association

Society of American Military Engineers

Industrial Environmental Coalition of Orange County