

Curriculum Vitae

Felix W. Flechas, P.E., BCEE

EXPERTISE:

- National EPA RCRA Expert for Hazardous Waste Management (Retired from EPA 2/2010)
 - Hazardous Waste Laws
 - Compliance with Environmental Laws
 - Hazardous waste engineering, compliance, management, disposal and facility design
 - Superfund/industrial Site Remediation and RCRA Corrective Action
 - RCRA and Industrial Site Closure
 - Groundwater Remediation
 - Hazardous Waste Exemptions (Bevill Mining Waste, Coal Combustion Waste and Petroleum Exploration and Production)
 - Engineering Project Management
 - Federal Court Witness/Depositions
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EDUCATION:

Walla Walla University, BS - Civil Engineering
University of Colorado, MS - Water Resources/Sanitary Engineering

LICENSES AND CERTIFICATIONS:

Professional Engineer (PE) - Colorado and Wyoming
Board Certified Environmental Engineer (BCEE) -American Academy of Environmental Engineers

WORK EXPERIENCE:

Burnside Environmental Group, LLC **Broomfield, Colorado**

Member of Burnside Environmental Group which works on behalf of clients throughout the United States to provide specialized litigation support services and develop legal strategies to avoid or defend against, civil or criminal environmental enforcement actions.

**Environmental Compliance and Sustainability Engineering, LLC (ECSE)
Broomfield, Colorado**

Founder and managing member of ECSE which provides professional environmental compliance services to government and industrial clients. Services include but are not limited to forensic environmental investigations, analyses, and audits to determine compliance with environmental laws and regulations and the adequacy of inspections done by government regulators.

Faculty

**University of Colorado Denver
Denver, Colorado**

Adjunct professor at the University of Colorado Denver College of Engineering and Applied Science where I teach graduate level engineering classes in 1) Environmental Laws and Regulations, 2) Hazardous Waste Site Remediation, 3) Hazardous Waste Management, and 4) Sustainable Urban Water Systems.

**University of Missouri Science and Technology
Rolla, Missouri**

Adjunct Professor at the University of Missouri Science and Technology College of Engineering where I teach Environmental Law and Regulations.

Managing Director

**Center for Sustainable Infrastructure Systems
University of Colorado Denver
Denver, Colorado**

As Managing Director of the University of Colorado Denver Center for Sustainable Infrastructure Systems (CSIS), leadership was provided to implement:

- Development of the Center's Strategic/Marketing Plan and Resources Budget;
- Development of strategic initiatives;
- Annual assessment of strategic achievements, strengths, weaknesses and redirection needed for the upcoming year;
- Establishing and engaging the CSIS External Advisory Board;
- Development of External Partnerships at the local, state and national level with businesses, industries, and governments;
- Development of Internal Partnerships with other UC Denver colleges, the Anschutz Medical Campus and with the UC Denver Administration;
- Oversight of CSIS Financials and Activity Summary; and
- Oversight of large external partnership projects.

RCRA Enforcement Team Leader

**USEPA, Region 8
Denver, Colorado**

Served as the team leader of the EPA Region VIII Resource Conservation and Recovery Act (RCRA) Enforcement Team. As team leader:

- Developed and negotiated enforcement and inspection targets for the Enforcement Program;
- Developed and oversaw civil enforcement cases;
- Supported the chosen enforcement response and provided the necessary support for subsequent negotiations or litigation;
- Lead, advised, and mentored a diverse technical and professional staff responsible for RCRA enforcement activities in six states;
- Assisted in the development, implementation and interpretation of national RCRA policies and procedures;
- Represented EPA Region VIII at policy meetings, national conferences and on various national workgroups which included the Pharmaceutical Universal Waste Rulemaking Workgroup and the Coal Combustion Waste Workgroup.

Environmental Engineer (Technical Enforcement Program)

**USEPA, Region 8
Denver, Colorado**

Served as team leader for the technical enforcement team responsible for clean-up of a metal refinery. The team leader was responsible for;

- Development and implementation of EPA's regulatory compliance, risk assessment, remediation, and worker health issues;
- Regulatory issues related to the Bevill exemption and mining beneficiation waste interpretations;
- Coordinating team members which consisted of scientists, engineers, geologists, toxicologists, industrial hygienists, epidemiologists, and lawyers from the state DEQ and EPA regional and HQ offices;
- Development of technical strategies and solutions to environmental, ecological and human health problems and preparation of Agency decision documents and responses to the problems. Responses required coordinating with multiple environmental state and federal agencies and DOJ and briefings for higher level management at the Regional and national level;
- Testimony in Federal District Court, District of Utah, depositions on hazardous waste issues and development of government settlement positions.

Environmental Engineer (Solid and Hazardous Waste Program)

USEPA, Region 8 Denver, Colorado

Duties of this position were to:

- Serve as EPA National and Regional Expert in Hazardous Waste Management and provided hazardous waste management, site remediation and geo-technical assistance at hazardous waste sites and site remediation projects throughout EPA Region VIII and internationally;
 - Serve as a senior project manager/Team Leader for permitting and enforcement order negotiations, hazardous waste permitting, hazardous waste site investigations and inspections, waste management studies, and managed clean-up of industrial hazardous waste facilities. (Two national EPA awards for innovative management of hazardous waste site remediation teams were awarded to my teams);
 - Serve as EPA's Region 8 Expert Witness on RCRA issues during court testimony and depositions;
 - Represent US/EPA to foreign governments for assistance with and training in hazardous waste management issues;
 - Represent EPA Region 8 on national workgroups and as the regional coordinator for issues and regulations dealing with DNAPL remediation, soil vapor intrusion, hazardous waste site closure, bio-remediation technologies, corrective action for ground water and soil chemical contamination, hazardous waste landfill construction, petroleum refinery waste regulations, federal land disposal restrictions, and petroleum exploration and production wastes and exemptions;
 - Provide training to industry and government personnel on hazardous waste management, treatment, and disposal regulations and policies;
 - Develop and negotiate civil environmental enforcement orders and hazardous waste management RCRA permits.
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PROJECT EXPERIENCE:

Assessment of technical adequacy of federal enforcement actions taken against an oil and gas treatment facility.

Development of regulatory compliance options for a regional warehouse.

Project leader for development of options and implementation of a large waste site clean-up.

Federal Team leader for development of remediation protocols at a national metal refinery.

Permit Team leader for hazardous waste permitting of a commercial hazardous waste integrated treatment/landfill facility.

Permit Team leader for permitting the closure and capping of four large oil refinery sludge surface impoundments.

Permit Team leader for hazardous waste permitting of a container and tank storage facility at an industrial solvent distribution center.

Permit Team leader for hazardous waste permitting of a container storage area at a US Air Force base.

Permit Team leader for hazardous waste permitting of a sulfide treatment facility at a natural gas sweetening plant.

Permit Team Leader for hazardous waste permitting of a refinery hazardous waste land treatment facility.

Project Team Leader for studies of in-situ biological and physical/chemical remediation technologies at a wood treatment site.

Project Team Leader for remediation of two large and complex oil refineries and a 420-acre wood treatment facility.

Team Leader for research effort to determine the effects of thermally-enhanced water flooding on oil recovery from alluvial aquifers.

Team Leader for research effort which determined the sludge retention efficiency of petroleum refinery API separators.

Team leader and US/EPA representative to Czechoslovakia for environmental evaluation and site characterization of the only used oil refinery in the nation and for providing technical assistance on new refining techniques and technologies.

US/EPA representative to the Cook Islands Nation for technical assistance on siting and designing a national solid waste landfill and for creation and implementation of a national solid waste management strategy.

Team leader and US/EPA representative to India for environmental evaluation and site characterization of an abandoned chromium refinery site and for providing technical assistance on new refining techniques and technologies.

Team leader and US/EPA representative to Malaysia for technical evaluation of a proposed national hazardous waste treatment and disposal facility.

US/EPA representative to Malaysia to train Malay Environmental Protection Agency staff in methods and skills needed for writing environmental hazardous waste permits.

Member of the Science Advisory Committee, Great Plains/Rocky Mountain Hazardous Substance Research Center at Kansas State University

JOB-RELATED HONORS AND AWARDS:

EPA - Gold Medal for Commendable Service 2009

EPA - Bronze Medal for Commendable Service 1998 and 2003

EPA 1995 Federal Engineer of the Year: Awarded by the National Society of Professional Engineers

EPA - National Notable Achievement Award for Corrective Action Team of the Year 1999

EPA - National Notable Achievement Award for Corrective Action Team of the Year 2001

EPA Outstanding Performance Awards - 1985, 1986, 1988, 1989, 1994, 1995, 1997, 1998, 2002, 2003, 2004, 2005, and 2007

EPA Special Achievement Awards - 1983, 1987, 1998, 1999, 2000 and 2001

PUBLICATIONS:

Book Chapter: "Regulatory Evaluation and Acceptance Issues for Phytoremediation Projects", Advances in Biochemical Engineering/Biotechnology, Tsao and Tsao, Springer-Verlag, 2003.