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CAROL E. LYONS
EXECUTIVE DIRECTOR
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SPECIALTIES

- Independent, objective environmental engineering analysis and problem solving
- Pollution prevention, reduction, control, and compliance
- Interdisciplinary program management / design, implementation, completion
- Industry / government / community education, outreach, and communication
- Community-based social marketing

ENVIRONMENTAL ENGINEERING; POLLUTION REDUCTION AND PREVENTION

- Environmental engineering specializing in diverse areas, including air quality, water quality and conservation, climate change, stormwater management, environmental policy and analysis, pollution prevention, and engineering.
- Comprehensive stakeholder engagement and active involvement.
- Managed residential wood smoke pollution reduction project in Lincoln County, Montana which resulted in dramatic decreases in particulate air pollution.
- Facilitated innovative engineering analyses as process engineer for Amoco Production Company for oil and gas exploration and production in the western United States.
- Designed, implemented environmental compliance programs while engineering improved manufacturing and production.
- Experienced, hard-working with successful government and business experience in solving pollution problems through collaboration and sound science.

TECHNICAL, ENVIRONMENTAL, AND POLICY PROGRAM MANAGEMENT

- Managed the landmark urban air pollution study, the 1987-88 Metro Denver Brown Cloud Study, achieving scientific answers for visibility problems in Denver; responsible for the success of the \$1.5 million, 14-month private sector / public-sponsored study.
- Developed and implemented long-term successful comprehensive corporate environmental training, environmental management systems, and internal audit programs.
- Administered air pollution monitoring, modeling, analysis, and control; directed corporate air quality discipline; coordinating work of 50 staff members in 15 offices.
- Designed and implemented the Small Business Stationary Source Air Pollution Technical Compliance Assistance program for Pennsylvania, serving 30,000 regulated businesses.
- Task-oriented leadership achieving goals through flexible problem solving, stakeholder participation, active listening and thorough technical work.

PROBLEM SOLVING, COMMUNICATION, TRAINING

- Extensive experience and track record in community training [community-based social marketing]; training of graduate students and environmental professionals

- Created environmental training programs including industrial training for operating engineers, compliance briefings for corporate management and government executives
- Implemented customer service oriented environmental compliance programs
- Chaired 3 advisory committees of the Brown Cloud Study; technical, socio-economic, and peer review, with all scientific, government, industry, and community stakeholders.
- Rebuilt deteriorating oil company relations with federal, state, and local environmental agencies, designing effective government partnerships and educating company personnel.
- Overseas experience in environmental management and training; adept at communication in multiple languages and cultures, including high technology and computers.

EXPERIENCE

- Institute for Environmental Solutions, Executive Director; independent non-profit organization committed to science based, technically sound solutions to complex environmental and natural resource problems, Denver, 2002 – present
- Bridges Unlimited LLC, President, Engineering and Environmental Consulting, Denver, Colorado, 1986 to present
- Visiting Lecturer, Urban and Regional Planning, University of Colorado, 1989 – present
- Adjunct Professor, Environmental Policy & Management, University of Denver, 1989-96
- Manager, Environmental Pollution Control and Prevention Research, National Renewable Energy Laboratory, Golden, Colorado, 1994 to 1996
- Manager, Air Quality, PRC Environmental Management, Inc., Denver, CO, 1990 to 1994
- Project Manager, 1987-88 Metro Denver Brown Cloud Study, 1987 to 1988
- Environmental Coordinator; Process Engineer, Amoco Production Company, Denver, Colorado and Liberal, Kansas, 1980 to 1986

EDUCATION

M.S. Chemical Engineering, California Institute of Technology, Pasadena, CA, 1976
 Graduate Organic Chemistry, École National Supérieure de Chimie de Montpellier, 1973 to 1974
 B.S. Physics/Chemistry, Université des Sciences et Techniques, Montpellier, 1973 (with honors)
 Plume Evaluation Training (Opacity Certification, “Smoke Reader”), ODEQ, 2002
 40-hour OSHA Hazardous Waste training, 1991
 ISO 14000 Continuing Education Program, A&WMA, June 1997
 Numerous short courses, university classes, technical and business seminars, 1978 to present
 French: Fluent speaking, reading, and writing. Some Spanish, Mandarin Chinese, Tagalog.

PROFESSIONAL AFFILIATIONS

American Institute of Chemical Engineers (journal author), Life Member, 1974 to present
 American Chemical Society (section speaker), member, 1989 to present
 Colorado Alliance for Environmental Education
 Colorado Nonprofit Association
 Colorado Watershed Assembly
 Qualified Environmental Professional (QEP), 1994-2007.
 Air & Waste Management Association (author, session chair), member, 1979 to 2005

- Fellow Member 2000
- Ethics Committee (vice-chair)

Colorado Hazardous Waste Management Society, Board of Directors, 1997 to 1999