RIFFAT MAQBOOL QADIR, PE
Principal, Enpro Solutions, Inc., Dublin, California

AREAS OF EXPERTISE

Project Management and Cost Control, Soil and Ground Water Remediation, Project/Process Engineering, Water and Air Treatment, Feasibility Studies, Regulatory Negotiation and Case Closure, Risk Assessment, Fate and Transport Modeling, Phase I and Phase II Site Assessment, Environmental Permitting (air, water, RCRA), Environmental Compliance and Auditing, Accidental Release Prevention, Process Hazard Analysis, Hazardous Materials Management, and Pollution Prevention.

SUMMARY OF EXPERIENCE

Mr. Qadir, Principal, has twenty three years of consulting and industrial experience and has managed environmental projects for a variety of Fortune 500 clients, municipal clients and the Department of Defense. Mr. Qadir has prepared risk management plans including CalARP/RMP Plans, RCRA Part B operating plans, spill prevention control and countermeasure plans (SPCCs), storm water plans (SW3Ps), hazardous materials plans and hazardous waste minimization plans. He has performed QA/QC, cost estimating and planning for facility and remediation system decommissioning. Mr. Qadir has also developed products and processes in the areas of coatings, wet-welding electrodes and explosives.

Mr. Qadir has managed turnkey soil and ground water remediation projects from concept through detailed design, procurement, installation, startup, operation and maintenance and closure. His experience spans industrial, superfund, military, commercial, and service station sites. He has performed and directed phase I ESAs for property transfers and Phase II Remedial Investigations. Mr. Qadir has managed large, complex remediation projects, served as the lead engineer on multimillion dollar projects and managed diverse teams comprising professionals from many engineering and scientific disciplines.

Mr. Qadir has prepared feasibility studies (FS), life-cycle cost estimates, remedial action plans (RAPs), design drawings and construction specifications. He has performed pilot studies, prepared remedial designs (RD), directed remedial investigations (RI) or managed operation of remediation systems at over 50 sites. He has directed or performed fate-and-transport modeling including free product, ground water, solute transport, vadose zone leachate and vapor extraction modeling. Mr. Qadir has obtained site closure, remediation system shutdown or reduced monitoring at several sites with multiple petroleum, chlorinated hydrocarbon, metal or other contaminants in ground water.

Mr. Qadir has implemented numerous remediation technologies including soil excavation and treatment, dual-phase extraction, product recovery, soil vapor extraction (SVE), hot air injection, air sparging and ground water extraction/treatment at sites involving chlorinated or petroleum hydrocarbons. He has designed vapor and ground water treatment systems using processes including activated carbon, thermal/catalytic oxidation, ozone sparging, air stripping, steam stripping, bioreactor, ion exchange and reverse osmosis. Mr. Qadir has provided third party review and litigation support for several environmental projects.

PROFESSIONAL HISTORY

President, Enpro Solutions, Inc., January 1998 - Present
President/Principal, Amador Engineering & Infrastructure, Inc., February 1997 - December 1997
Engineering Manager/Senior Engineer, Environmental Science & Engineering, Inc., Concord, California, 1993 - 1997
Senior Engineer/Project Engineer, Harding Lawson Associates, Santa Ana, California, 1990 to 1993.
Staff Engineer, Kennedy/Jenks/Chilton, Irvine, California, 1988 - 1990
Senior Engineer, Broco Inc., Rialto, California, 1984 - 1988

Development Engineer, Advanced Coatings and Chemicals, Temple City, California, 1983

EDUCATION
MS Chemical Engineering, University of Michigan, 1981
BS Chemical Engineering, University of Engineering and Technology, Pakistan, 1980
Graduate work at Cal-Poly, Pomona, 1985,
Graduate work at the Illinois Institute of Technology 1982.

TRAINING
OSHA and EPA 40-hour Training with annual refrresher/8-hour Supervisory Training
Management Development for Entrepreneurs, 60-hour course, Certificate, UCLA, 2001
California Accidental Release Prevention (CalARP), Short Course, Hazmacon, 1998
Risk-Based Corrective Action (RBCA), Short Course, ASTM, 1997
Bioremediation of Hazardous Waste Sites: Practical Approaches to Implementation, EPA Seminar 1996
Nuclear Gage Radiation Safety Training Class, 1996
Assessment, Control and Remediation of LNAPL Contaminated Soils, ES&T Workshop, 1995
Basic Principles of Project Management, 30-hour course, Certificate, Project Management Institute, 1993
Soil Remediation Workshop, Shell Oil Co., 1992
Soil Remediation Workshop, Shell Oil Co., 1991
Chemodynamics, Environmental Fate and Mobility, Short Course, AIChE, 1990
HazCat Chemical Identification System Short Course, Hazmacon, 1988
Sputter Deposition and Ion Beam Processes, Short Course, American Vacuum Society, 1985
Safety and Handling of Marine Explosives, Safety Course, Broco Inc., 1984
Southern California Meter Association, Instrumentation Short Course, 1984

REGISTRATIONS AND LICENSES
Professional Engineer, California #CH4767, 1992
General Engineering Contractor, California, License #750661, with Hazardous Substance Certification, 1998

PROFESSIONAL AFFILIATIONS
American Institute of Chemical Engineers (2001-2002 Chair, Northern California Section)
American Council of Engineering Companies
Consulting Engineers and Land Surveyors of California

PUBLICATIONS AND PRESENTATIONS
"The Brownfield Challenge", R. Maqbool Qadir, PE, Environmental Protection, March 2002

"Final Site-Wide Feasibility Study for Lawrence Livermore National Laboratory Site 300", (L. Ferry, R. Ferry, W. Isherwood, R. Woodward, T. Carlsen, Z. Demir, R. Qadir and M. Dresen), University of California - U.S. Department of Energy Publication UCRL -AR- 132609, November 1999

Risk-Based Corrective Action and Natural Attenuation: Recent Trends in Site Restoration, or "To Remediate or Not To Remediate, That Is The Question", presented at Northern California AIChE, Berkeley, California, September, 1998.

"Predicting Cleanup Time and Transient VOC Concentrations in Vapor Extraction Systems with Mathematical Models in Hydrocarbon Contaminated Soils and Ground Water", R. Maqbool Qadir, Volume 3, edited by Paul T. Kostecki & Edward J. Calabrese, Lewis Publishers, 1993.