

Richard W. Lewis CPG

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E D U C A T I O N

State University of New York <ul style="list-style-type: none">• BS in both Biology and Geology 1975	Brockport, NY
State University of New York <ul style="list-style-type: none">• MS Geology	Fredonia, NY
University of Oklahoma (Post Graduate Classes) <ul style="list-style-type: none">• Hydrology and Clay Mineralogy	Norman, OK

E M P L O Y M E N T

Oklahoma Health Department (Oklahoma City, OK) - Staff Geologist <ul style="list-style-type: none">• Research of Hazardous Waste Management -US EPA Grant• Permitting Underground Injection control Program	1977-1978
Engineering Enterprises Inc. (Norman, OK) - Project Manager <ul style="list-style-type: none">• RCRA Permitting• Refinery Oil Recovery operations	1979- 1982
Oil Recovery Systems Inc. (Norwood, MA) - Operations Manager <ul style="list-style-type: none">• Site Investigation and remediation for LNAPL releases• Site Investigation and remediation for DNAPL releases	1982 - 1986
Groundwater Technology Inc. (Norwood, MA) Senior Vice President <ul style="list-style-type: none">• Site Investigation and remediation for LNAPL and DNAPL• Established 9 Offices in US and 5 outside of US plus 2 joint venture companies	1986 - 1996
Fluor Daniel GTI (Norwood, MA) - Senior Vice President <ul style="list-style-type: none">• Senior Hydro-geologist in charge of technology development• Management of Senior Staff for Key Industrial Client program	1997 - 1999
Shaw/IT Corporation. (Norwood/ Hopkinton, MA) - Vice President <ul style="list-style-type: none">• Key Client Management and Remediation Specialists - development of innovative technologies	1999 - 2002
Environmental Resources Management (ERM). (Boston/Mansfield, MA) - Partner <ul style="list-style-type: none">• Key Client Management and Remediation Specialist	2002 - 2011
Lewis Groundwater Consulting <ul style="list-style-type: none">• Hydro geologic advisory services regarding contaminated site investigation and remediation	2011 - Present

E X P E R I E N C E

Mr. Lewis has conducted hundreds of remediation projects involving a wide range of technologies that were adapted and successfully applied to the local site conditions. These environmental investigations and remediations have dealt with a wide variety of industrial chemicals such as solvents, petroleum products, coal tars and metals. Coal tar remediation programs have involved a variety of innovative and successful approaches. Some technologies or combination of technologies have involved thermal treatments, soil blending with oxidation treatments, use of biological methods for degradation and beneficial reuse of coal tars when blended coal as a fuel supply.

Mr. Lewis has worked in the environmental industry for more than 40 years, serving clients in 47 different US states, as well as in Canada, Australia, China, Japan, New Zealand, South Africa, Mexico, Brazil, Venezuela, and many Western and Central European countries.

Mr. Lewis currently provides technical and strategic guidance on key client projects and the development and application of innovative remediation technologies.

Mr. Lewis is a nationally recognized expert in the design and application of Insitu Chemical Oxidation (ISCO) and has conducted training sessions on ISCO for both State (MA LSPA education program) and US EPA training program for the Chinese EPA (12/07).

Mr. Lewis has served as qualified expert witness on litigation projects in Connecticut, Georgia, Florida,

Kansas, Maine, Massachusetts, Missouri, New York, New Hampshire, Vermont, Wisconsin, and Ontario, Canada. Some of these litigations have involved former Gas works sites.

Registrations & Professional Affiliations

- Certified Professional Geologist (CPG), American Institute of Professional Geologists, No. 6111
- American Institute of Professional Geologists
- National Ground Water Association, Technical Division
- ASTM Subcommittee D18, Ground Water Monitoring Standards
- ASTM Subcommittee E50, Environmental Assessment
- ASTM Subcommittee D34, Waste Management

P U B L I C A T I O N S

Contributing Author to two chapters - In Situ Chemical Oxidation for Groundwater Remediation, R. L. Siegrist et al.: Springer Publishing 2011(Funded by SERDP and ESTCP)

Lewis, R., Pac, T., Brown, R., and Otz, M. *Design of ISCO Injections to Address Lithology and Hydrogeology*. Proceedings of the Sixth International Conference Remediation of Chlorinated and Recalcitrant Compounds, May 19, 2008.

Lewis, R., and Gill, K. O (The Dextra Group). *The Goal is Site Closure – Mistakes are Costly*. Proceedings of the Sixth International Conference Remediation of Chlorinated and Recalcitrant Compounds May 19, 2008.

Ravella, M., Fiacco, R.J., Pac, T., and Lewis, R. *Adaptive Remediation: Using MIP to Enhance Efficacy of Permanganate Application in Real Time*. Proceedings of the Sixth International Conference Remediation of Chlorinated and Recalcitrant Compounds May 19, 2008.

Lewis, R. and Heuling, S. (US EPA), *Workshop on In-Situ Chemical Oxidation as Remediation for Contaminated Sites*. Presentation for Taiwan, EPA, Taipei, Taiwan, December 2007.

Pac, T.J., Lewis, R., Ravella, M., and Kabir, A. *Importance of Delivery Methods for Remedial Effectiveness*. ORTS-5 Conference, Niagara Falls, NY, September 26, 2007.

Pac, T.J., Lewis, R., and Washburn, B. *Constant Head Enhanced In-Situ Chemical Oxidation of Fractured Bedrock Aquifer*. ORTS-5 Conference, Niagara Falls, NY, September 27, 2007.

Lewis, R. W., Luhrs, R. C. (Raytheon), Heuling, S.G. (USEPA). *ISCO's Long Term Impact on Aquifer Conditions and Microbial Activity*. ORTS-4 Conference, Chicago, IL, October 25, 2005

Lewis, R.L., Brown, R.A., Dablow, J. *Thermally Based Contaminant Destruction*. ORTS-4 Conference, Chicago, IL, October 25, 2005

Lewis, R.L., Brown, R.A., Dablow, J. *An Examination of Heat Activated Persulfate*. ORTS-4 Conference, Chicago, IL, October 25, 2005

Lewis, R.L., Brown, R.A., Fiacco, R., Leahy, M. C. *In-Situ Chemical Reduction, an Evolving Technology*. ORTS-4 Conference, Chicago, IL, October 25, 2005

Pac, T.J., Lewis, R.W., and Frazier, J. *Importance of Delivery Methods for Remedial Effectiveness*. ORTS-4 Conference, Chicago, IL, October 25, 2005.

Pac, T.J., Lewis, R. W., and Connelly, T. *Sequential Implementation of In-Situ Chemical Oxidation and Reductive Dechlorination*. Proceedings of the Fourth International Conference on Remediation of Chlorinated and

Recalcitrant Compounds May 25, 2004.

Pac, T. J., Lewis, R. W., Fiacco, Jr., R. J. and Madera, E. *Innovative Delivery Method for In-Situ Chemical Oxidation*. Third Oxidative Reductive Technologies Conference, San Diego, CA, October 2004.

(ADDITIONAL PUBLICATIONS UPON REQUEST)