

TECHNICAL SPECIALTIES

Groundwater flow and contaminant fate and transport; groundwater/soil contamination investigation and remediation; CERCLA, RCRA and various state program requirements for soil and groundwater remediation; environmental site assessments.

EXPERIENCE SUMMARY

Over forty years of experience: Chairman/founder of Roux Associates, Inc.; Senior Hydrogeologist at Stauffer Chemical Company; various hydrogeological positions at Geraghty & Miller, Inc.; and Engineer at Spectral Data Corporation. Directed and participated in CERCLA and RCRA studies, environmental impact statements, water quality and contaminant mobility studies, groundwater assessments, technical support for legal counsel, expert witness, regulatory agency negotiations.

EDUCATION

M.A. Geology, Queens College, City University of New York, 1978

B.S. Engineering Science, C.W. Post College, Long Island University, 1968

CREDENTIALS

Certified Professional Hydrogeologist, A.I.H.

Certified Professional Geologist, A.I.P.G.

Certified Professional Geologist: Indiana, North Carolina, Florida, Arkansas, New York, Tennessee and Georgia

PROFESSIONAL AFFILIATIONS

National Groundwater Association

American Institute of Professional Geologists

American Institute of Hydrology

PROFESSIONAL ACTIVITIES

Executive Committee, American Institute of Professional Geologists, Northeast Section, 1976 – 1978

Groundwater Management Task Group and Superfund Task Group, Chemical Manufacturers Association, 1980 – 1981

Editorial Board, *Ground Water Monitoring and Remediation*, 1983 – 1993

Board of Registration, American Institute of Hydrology, 1996 – 1998

KEY PROJECTS

- Principal-in-Charge of the Remedial Investigation/Feasibility Study for the Shore Realty Superfund Site in Glenwood Landing, New York. Evaluated the extent of volatile organic chemicals, metals and PCBs in soil, sediments and groundwater. Demonstrated the technical impracticability of groundwater remediation to meet New York State Clean-up levels. Evaluated and pilot tested in-situ clean-up methods, including soil

vapor extraction, and negotiated a cost-effective remedy with NYSDEC and USEPA.

- Principal-in-Charge of the Remedial Investigation/Feasibility Study for the Delaware City PVC Plant Superfund Site in Delaware City, Delaware. Conducted an extensive groundwater investigation, including installation of numerous monitoring wells, an aquifer pumping test and a geophysical evaluation of a confining clay layer. Evaluated various remedial options and determined that pump and treat would be an effective method at this site because of the nature of the impacted aquifer and the specific chemicals of concern. Designed a groundwater capture system that has effectively halted the migration of the plume and has cleaned up major portions of the aquifer to non-detect levels.
- Project Manager for the Remedial Investigation of the Industri-Plex 128 Superfund Site in Woburn, Massachusetts (ranked No. 5 on the NPL). Conducted an extensive investigation of soil, sediment, surface water and groundwater contamination. Contaminants of concern included arsenic, lead, chromium and volatile organics. Made extensive use of geophysical techniques to map the extent of buried wastes. Evaluated groundwater flow patterns and groundwater/surface water interactions and the use of engineered wetlands as a groundwater remedial measure. Negotiated investigative and remedial activities with USEPA Region I. Made regular presentations to the local Citizens Advisory Committee.
- Principal-in-Charge of a groundwater investigation and remediation project at a former RCA Plant site in Taoyuan, Taiwan. Employed state-of-the-art investigation and in-situ remedial methods for chlorinated solvents in groundwater. Responded to new and developing Taiwan EPA regulations regarding contaminated site remediation and made presentations to the Taiwan EPA and Taoyuan EPB (Environmental Protection Bureau) on behalf of an international client (former property owner).
- Principal-in-Charge for a RCRA Corrective Measures Study for an industrial facility in Florence, South Carolina. Conducted a soil and groundwater investigation to determine sources and extent of various chlorinated organic compounds at the facility and develop appropriate corrective measures. No further action was required for soils. A groundwater extraction and treatment system was developed along with a groundwater monitoring program.

- Managed the evaluation of groundwater conditions at over 100 industrial plant sites throughout the U.S. for various clients in response to RCRA monitoring requirements and various state environmental programs. Advised clients regarding sources and extent of contamination and appropriate remedial measures. Prepared technical reports and presentations and negotiated investigative and remediation programs with state and federal regulatory agencies.
- Principal-in-Charge of approximately 20 studies conducted for a major agricultural chemical manufacturer to define areas vulnerable to groundwater contamination from pesticide application. Developed and implemented study methods for evaluating pesticide and herbicide leaching potential in eight states. Evaluated pesticide occurrence in 25 major river systems throughout the United States. Testified on pesticide occurrence in groundwater before the USEPA Science Advisory Panel.
- Served on the Chemical Manufacturers Association Groundwater Management and Superfund Task Groups, assisted with the development of a CMA groundwater policy statement and prepared a technical presentation to the USEPA on the Hazard Ranking System for Superfund sites.
- Evaluated the impact of waste disposal activities in Gloucester and Camden Counties, New Jersey on the quality of groundwater resources in this region. Inspected dozens of active and inactive landfills and dumps, reviewed and evaluated extensive groundwater quality data, consultants' reports, air photos and published information regarding geology and groundwater. Prepared a report for the USEPA. Conducted a similar project for Westchester, County, New York.
- Project Manager for the investigation and remediation of groundwater contamination at a pesticide formulating plant in Dayton, New Jersey. Oversaw the installation of dozens of monitoring wells, developed a conceptual model of groundwater flow and contaminant transport, negotiated investigations and remedial activities with the NJDEP, oversaw the installation and operation of a groundwater containment and remediation system.
- Project Manager for the evaluation of the source of 111-trichloroethane and other volatile organic compounds in a public supply well in South Brunswick, New Jersey. Oversaw the installation of monitoring wells and developed a conceptual model of complex groundwater flow in a two aquifer system with a discontinuous clay layer.
- Investigated the impact on soil and groundwater of releases from approximately 20 gasoline service stations in the Northeast and California. Evaluated the causes of releases and appropriate remediation. Negotiated remedial activities with various regulatory agencies.
- Investigated the sources and migration of methyl tertiary-butyl ether (MTBE) associated with releases from several gasoline service stations and gasoline underground storage tanks at vehicle maintenance facilities at various locations in the northeast. Developed conceptual flow and transport models for MTBE and BTEX plumes in groundwater to determine source and timing of releases. Evaluated various remedial options for MTBE and BTEX contaminated groundwater, including natural attenuation, soil vapor extraction, sparging, in-situ bioremediation and pump and treat.
- Project Manager for the investigation of the sources and extent of volatile organic chemicals in a fractured rock aquifer in northern New Jersey. Oversaw the installation of monitoring wells and the conduct of pumping tests. Developed a conceptual model of groundwater flow and contaminant transport. Provided expert testimony in a lawsuit between responsible parties regarding contributions for costs.
- Provided technical oversight of the USEPA contractor conducting the RI/FS at the Tybouts Corner Superfund Site (Ranked No 2 on the NPL). Assisted the PRP committee in evaluating the investigation methods and results, as well as, various remedial options. Provided deposition testimony regarding contractor activities at the site as part of litigation regarding the remediation of the site.
- Project Manager for the investigation of the impact on soil and groundwater of a 7,000-gallon PCB spill in Old Bridge, New Jersey. The PCBs were spilled along an unpaved road adjacent to a public supply well field. An emergency clean-up of PCB oil and surficial soil was conducted by a contractor to the NJDEP. An investigation was then undertaken to determine what additional remedial measures would be needed to protect the well field. A technical report with recommendations was prepared for NJDEP.
- Project Manager for the investigation of the source, extent and remedial options for a large benzene spill at an industrial plant in Nevada. The benzene had mobilized extensive pesticide and other contamination in the subsurface and created a complex LNAPL/DNAPL problem. Evaluated various remedial measures and negotiated investigative and remedial measures with the NDCNR.

- Project Manager for the investigation and remediation of groundwater contamination at the Rollins Environmental Services hazardous waste treatment facility in Bridgeport, New Jersey. Conducted groundwater testing, and geophysical surveys to develop data for design of a groundwater containment system. Developed a long-term monitoring program and negotiated investigative and remedial measures with NJDEP.
- Principal-in-Charge of Remedial Investigation/ Feasibility Study for The Sabin Metals New York State Superfund site in Modena, New York. Conducted an investigation of sediment and groundwater contamination and developed a remedial approach of wetlands dredging and reconstruction using the dredged material as landfill cover.
- Principal-in-Charge for the investigation of the impact of several waste burial areas on groundwater and surface water quality in a fractured limestone aquifer and related surface stream in central Tennessee. Oversaw the installation and sampling of numerous piezometers and monitoring wells. Developed a conceptual groundwater flow model, conducted aquifer tests and evaluated various remedial options. Negotiated investigative and remedial measures with TDEC.
- Project Manager for the investigation of the impact of coal tar on groundwater and surface water at the site of a former coal gas manufacturing plant in upstate New York. Evaluated and pilot tested an in-situ remedial method for groundwater at the site.
- Evaluated the sources, extents and remedial options for chlorinated solvents, including DNAPLs, in soil and groundwater at over 30 sites across the country.
- Implemented numerous water supply development projects. Clients included Shell Oil, Union Carbide, Puerto Rico Water Resources Authority, East Orange and Fairlawn townships in New Jersey, and Middletown and Weston townships in Connecticut. Utilized geophysical techniques and fracture trace analysis to select optimum well locations. Oversaw the construction and testing of numerous public supply wells.
- Evaluated a site in central New Jersey for possible location of a hazardous waste incinerator and provided testimony to the Siting Commission regarding the suitability of the site.
- Determined the sources, paths of migration and extent of organic solvent contamination of groundwater in a fractured rock aquifer in northern New Jersey. This

work was done in connection with contamination of several public supply wells.

- Engineer operating electronic equipment to measure spectral signatures of underwater targets at various depths at the U.S. Naval Weapons Testing Facility, Andros Island, Bahamas. Data were then used to develop remote sensing techniques and equipment for detection of submarines and other underwater features.
- Engineer operating electronic equipment to measure spectral signatures of trees stressed by elevated levels of various minerals such as gold, copper and platinum in remote regions of South Africa and Namibia. Data obtained were then used to develop remote sensing techniques and equipment for mineral prospecting in these regions.

LITIGATION SUPPORT

- Expert for Liberty Mutual Insurance Company in an insurance claim for environmental damages at an industrial facility in Massachusetts. Provided opinions on sources and extent of groundwater contamination at the facility. Liberty Mutual Insurance Company vs The Black & Decker Corporation, et al. U.S. District Court, District of Massachusetts; 2003; expert report, deposition and trial. (Holland & Knight, Boston, Massachusetts).
- Expert for Gould Electronics in a cost recovery case involving remediation of lead contaminated soil at a former battery recycling facility in eastern Pennsylvania. Provided opinions on consistency of corrective measures with CERCLA and RCRA requirements and consultant's costs. Borough of Throop v. Gould Electronics, Inc. U.S. District Court for the Middle District of Pennsylvania; 2002; expert report. (Schnader, Harrison, Segal & Lewis, Philadelphia, Pennsylvania).
- Expert for Exxon Mobil Corporation in a cost recovery case involving soil and groundwater contamination at four gasoline service stations in New Jersey. Provided opinions regarding underground storage tank (UST) installation and monitoring, timing and source of releases and investigation and remedial actions taken. The New Jersey Turnpike Authority v. Cities Service Oil Company, et al. Superior Court of New Jersey; 2002; expert report. (Archer & Greiner, Haddonfield, New Jersey).
- Expert for Kerr-McGee Corporation and RB&W Manufacturing LLC in a cost recovery case involving soil and groundwater contamination at a fuel oil terminal. Opinions involved sources and timing of petroleum releases and extent of remediation needed.

Dominick D. Bologna, et al. v. Kerr-McGee Corporation, et al. U.S. District Court for the Southern District of New York; 2001; expert report and deposition. (Beveridge & Diamond, New York, New York and Jones, Day, Reavis & Pogue, Cleveland, Ohio).

- Expert for FMC Corporation in a cost recovery action involving groundwater contamination in Fresno, California. Opinions included groundwater flow and transport, sources of various contaminants (e.g. TCE and Cr+6) and appropriate remedial actions. FMC Corporation v. The Vendo Company, et al. United States District Court, Eastern District of California, Fresno Division; 2000-2001; expert report and expert rebuttal report. (Farella, Braun & Martel, San Francisco, California).
- Fact witness for Aventis Crop Science USA, et al. in a Natural Resource Damage claim in Southern California. Provided a description of a former pesticide manufacturing process as a 30(B)(6) witness. United States of America and State of California v. Montrose Chemical Corporation of California, et al. U.S. District Court, Central District of California, Western Division; 2000; deposition. (Ropes & Gray, Boston, Massachusetts).
- Expert for NL Industries and Crown Cork & Seal in a CERCLA cost recovery case regarding the LiPari landfill in Southern New Jersey (ranked no. 1 on the NPL). Opinions included the sources of various organic chemicals and metals in groundwater, surface water and sediments and the need for remediation of specific chemicals. United States v. Rohm and Haas Company. U.S. District Court for the District of New Jersey; 1998-2000; expert report, deposition and trial. (Archer & Greiner, Haddonfield, New Jersey).
- Expert for Reilly Industries in a CERCLA cost recovery case involving soil and groundwater contamination at a former coal tar refining facility in Tennessee. Provided opinions on the nature and sources of soil and groundwater contamination. Velsicol Chemical Corp. v. Reilly Industries, Inc. U.S. District Court for the Eastern District of Tennessee; 1998; expert report and deposition. (Kirkland & Ellis, Chicago, Illinois).
- Expert for Zeneca Holdings, Inc. et al. in a Natural Resource Damage claim involving PCBs and DDT in ocean sediments. Provided opinions regarding the potential impact of a specific parcel of property on surface water and sediments. United States of America v. Montrose Chemical Corporation of California, et al. United States District Court, Central District of California; 1997-1998; expert report and affidavit. (Ropes & Gray, Boston, Massachusetts).
- Expert for Reilly Industries in a CERCLA cost recovery action involving sources of soil and groundwater contamination at a former coal tar refining and solvent storage facility in Chicago, Illinois. Opinions involved the nature, extent and sources of groundwater and soil contamination and an appropriate division of responsibility among former owners/operators for remediation costs. American National Bank and Trust Company of Chicago, et al. v. Harcros Chemicals, Inc. et al. U.S. District Court for the Northern District of Illinois, Eastern Division; 1997-1998; expert report. (Kirkland & Ellis, Chicago, Illinois).
- Expert for The Admiral Insurance Company, et al. in an insurance claim for environmental damages at several commercial/industrial landfills in various states. Provided opinions regarding hydrogeology and groundwater contamination at each site. WMX Technologies, Inc. et al. vs The Admiral Insurance Company, et al. Superior Court of New Jersey, Law Division – Hudson County; 1997; expert report and deposition. (Rivkin, Radler & Kremer, Esqs., Uniondale, New York).
- Fact witness for Handy & Harman in a cost recovery case brought by the Borough of Park Ridge, New Jersey for damages caused by VOCs in municipal supply wells. Issues included groundwater flow in a fractured rock aquifer and sources of contaminants. The Borough of Park Ridge v. Handy & Harman. Superior Court of New Jersey; 1997; deposition. (Bleakley, Platt & Schmidt, White Plains, New York).
- Expert for Zeneca Inc. in an arbitration proceeding involving remediation of contaminated sediments in a wetland in Alabama. Principal issue was the source of contaminants in sediments. Akzo v. Zeneca Inc. American Arbitration Association, New York, NY; 1996; assist with development of case and cross-examination. (Ropes & Gray, Boston, Massachusetts).
- Expert for ICI Americas, Inc. in a case against the former owner of a chemical plant in southern New Jersey for contribution to the cost of remediation of contaminated soil and ground water. Evaluated site conditions and provided expert opinions regarding the sources of the contamination. ICI Americas, Inc. v. Shell Chemical Company; Superior Court of New Jersey; 1996; expert report. (Drinker, Biddle & Reath, Princeton, New Jersey).

- Expert for Zeneca Inc. in a cost recovery case regarding the source of oil and other contaminants beneath an industrial park which was formerly a chemical plant owned by a predecessor to Zeneca. Provided opinions regarding the movement of oil in the subsurface, which was composed largely of construction debris fill. Brisbane Industrial Park v. Southern Pacific Railroad, et al. U.S. District Court for Northern District of California; 1995; deposition. (Ropes & Gray, Washington, DC).
- Fact witness for New Castle County, et al. in a cost recovery case against an EPA contractor involving actions taken at a major Superfund site. Issues included the procedures employed by the contractor in investigating the site. Government of New Castle County, et al. v. Halliburton NUS Corporation. U.S. District Court for the District of Delaware; 1995; deposition. (McCutchen, Doyle, Brown & Enersen, Washington, DC).
- Expert for Zeneca Inc. in a CERCLA cost recovery case regarding the consistency with the NCP of a property transfer of a former pesticide formulating plant where the current property owner was claiming to be an innocent landowner under CERCLA. Opinions involved state of the practice of environmental due diligence in the 1970s. The Prudential Insurance Company of America v. ICI Americas, Inc., et al. U.S. District Court for the Central District of California; 1993-1994; deposition and trial. (Ropes & Gray, Boston, Massachusetts).
- Expert for Handy & Harman in a cost recovery case regarding timing of releases, sources and extents of VOCs in groundwater at a former manufacturing facility in Northern New Jersey. Handy & Harman Electronic Materials Corporation v. Plessey, Inc., et al. U.S. District Court for the District of New Jersey; 1993; expert report and deposition. (Cohen, Shapiro, Polisher, Shiekman & Cohen, Princeton, New Jersey).
- Expert for the New York Telephone Company (currently Verizon) for the investigation of MTBE contamination of a public supply well in Mount Kisco, New York in response to a lawsuit. Conducted a groundwater investigation and prepared a technical report and presented the results to Mt. Kisco's consultants and attorneys. Based on these results the claim against client was dropped. Village/Town of Mount Kisco v. Lawyer Taylor, et al; 1992-1993. (Edwards & Angel, New York, New York).
- Expert for Van Waters & Rogers, Inc. in a cost recovery case regarding the sources of various VOCs in soil and groundwater at a site in Northern California. Opinions included the appropriateness of remedial actions and sources of contaminants based on their distribution in soil and deposition testimony of former operators. Lick Mill Creek Apartments, et al. v. International Mineral and Chemical Corporation, et al. U.S. District Court, Northern District of California; 1991; deposition. (Sedgwick, Detert, Moran & Arnold, San Francisco, California).
- Consultant to Settling Third Party Defendants for the Remedial Investigation and Feasibility Study at the Shore Realty Superfund Site in Glenwood Landing, New York. Conducted a Remedial Investigation and Feasibility Study for the site and presented a remediation strategy to the court in response to "Stipulation and Order", United States District Court, Eastern District of New York; The State of New York v. Shore Realty Corp., et al; 1987-1992. (Teitelbaum, Hiller, Rodman, Paden & Hibsher, New York, New York).
- Expert for Fireman's Fund Insurance Company, et al. in a case involving an insurance claim for soil and groundwater contamination at an industrial facility in Washington state. Opinions included sources and extent of groundwater contamination at the facility. Northwest Steel Rolling Mills Liquidating Trust vs. Fireman's Fund Insurance Company, et al. U.S. District Court for the Western District of Washington at Seattle; 1990; expert report and deposition. (Rivkin, Radler, Dunne & Bayh, Esqs., Uniondale, New York).
- Expert for Centennial Insurance Company in an insurance claim for environmental damages at an industrial facility in New Jersey. Opinions included hydrogeology, sources of contaminants and extent of groundwater contamination at the site. Centennial Insurance Company vs. Madison Industries, Inc. et al. Superior Court of New Jersey Law Division; Middlesex County; 1988; expert report and deposition. (Rivkin, Radler, Dunne & Bayh, Esqs., Uniondale, New York).
- Expert for American Salt Company in a damages action regarding a seven-mile long salt-water plume in groundwater extending beneath a number of farms in central Kansas. Opinions involved the source of the salt and extent and cost of remedial options. Cecil Miller, et al. v. American Salt, et al. U.S. District Court for Kansas; 1984-86; trial. (Olwine, Connelly, Chase, O'Donnell & Weir, New York, New York).
- Expert for Ciba Geigy Corporation in a pesticide registration cancellation proceeding brought by U.S. Environmental Protection Agency. Issues involved sources of the herbicide simazine, in a number of wells in California. Provided testimony to the U.S. EPA

Science Advisory Panel; 1985. (McKenna & Cuneo, Washington, DC).

- Expert for Reider Communities in a cost recovery case regarding VOCs in a municipal supply well in Central New Jersey. Conducted a groundwater investigation, which determined the source and extent of contamination. Provided expert opinions based on the results of this investigation. Reider Communities v. City of North Brunswick, et al. Superior Court of New Jersey; 1984; deposition. (Klein, Chapman, Dilanni, Greenburg, Henkoff and Siegel, Morristown, New Jersey).

PUBLICATIONS

Amanda Ludlow and Paul Roux, Innovative Technologies for Sustainable Environmental Remediation in Poor and Middle Income Countries, 2012, Journal of Health and Pollution, v. 2, no. 3, pp 1-4.

Roux, P.H., K. Balu, and R. Bennett, A Large Scale Retrospective Ground Water Study for Metolachlor, 1991, Ground Water Monitoring Review, v. 11, no. 3, pp. 104-113.

Roux, P.H., R.L. Hall and R.H. Ross, Small-Scale Retrospective Ground Water Monitoring Study for Simazine in Different Hydrogeological Settings, 1991, Ground Water Monitoring Review, v. 11, No. 3, pp. 173-181.

Roux, P.H., J. DeMartinis, and G. Dickson, Sensitivity Analysis for Pesticide Application on a Regional Scale, 1986, Proceedings from the National Water Well Association Conference on Agricultural Impacts on Ground Water, Omaha, Nebraska.

Roux, P.H., Impact of Site Hydrogeology on In Situ Remediation Strategies, 1985, Proceedings of the Hazpro '85 Conference, Baltimore, MD. pp. 274-287.

DeMartinis, J. and P.H. Roux, Hydrogeologic Site Assessment vs. Reality at One Chemical Plant, 1984, Proceedings from The Fourth National Symposium and Exposition on Aquifer Restoration and Ground-Water Monitoring, National Water Well Association.

Roux, P.H., An Electrical Conductivity Survey at a Superfund Hazardous Waste Site, 1984, Pollution Equipment News, v. 17, no. 3, pp. 84-85.

Althoff, W., R. Cleary and P.H. Roux, Aquifer Decontamination for Volatile Organics - A Case History, 1981, Ground Water, v. 19, no. 5, pp. 494-504.

Roux, P.H. and W. Althoff, Investigation of Organic Contamination of Ground Water in South Brunswick

Township, New Jersey, 1980, Ground Water, v. 18, no. 5, pp. 464-471.

Roux, P.H., Definition and Monitoring of an Industrial Ground-Water Pollution Problem, 1978, Master's Thesis, Queens College, City University of New York, 70 pp.

Roux, P.H. and D.W. Miller, Ground Water Monitoring at Solid Waste Disposal Sites - Two Case Studies, 1978, Proceedings of University Seminar on Pollution and Water Resources. v. XI. Columbia University - State of New Jersey, New York - Trenton, pp. 11-32.

The Report to Congress; Waste Disposal Practices and Their Effects on Ground Water, 1977, Office of Solid Waste Management Programs, U.S. Environmental Protection Agency, Washington D.C. 512 pp. (contributing author).

Roux, P.H., Availability, Utilization and Contamination of Ground Water in Gloucester and Camden Counties, New Jersey, 1977, Office of Solid Waste Management Programs, U.S. Environmental Protection Agency, Washington D.C. 153 pp.

Procedures Manual for Ground Water Monitoring at Solid Waste Disposal Facilities, 1977, Rept. SW-611, Office of Solid Waste, U.S. Environmental Protection Agency, Washington D.C. 269 pp. (contributing author).

Roux, P.H., Electrical Resistivity Evaluations at Solid Waste Disposal Facilities, 1978, Report SW-729, Office of Solid Waste, U.S. Environmental Protection Agency, Washington D.C. 94 pp.

Stollar, R.L. and P.H. Roux, Earth Resistivity Surveys - A Method for Defining Ground- Water Contamination, 1975, Ground Water, v.13, no.2, pp. 145-150.

Roux, P.H., The Nature and Movement of Leachate from Two Solid Waste Disposal Sites in the Northeast, 1975, Abstracts, Northeast Section, 10th Annual Meeting of the Geological Society of America, p.12.

PRESENTATIONS

Numerous technical presentations to various regulatory agencies; an environmental geology course at The City University of New York, Graduate Center; an environmental law course at St. John's University School of Law; a Chicago Bar Association environmental law seminar; an Environmental Law Institute course; a Real Estate Board of New York Conference; an Environmental Protection Agency Science Advisory Panel hearing; several client-sponsored conferences on environmental issues; professional association conferences and seminars; citizens' committees; and various public hearings.