

STEPHEN P. KUNZ

Senior Ecologist, Schmid & Company, Inc., Consulting Ecologists
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EDUCATION

B.S. Human Ecology, Cook College - Rutgers University
New Brunswick, New Jersey, 1977 (summa cum laude)

CERTIFICATIONS

Ecological Society of America: *Senior Ecologist* (2013, 2008, 2003, 1998)
Society of Wetland Scientists: *Professional Wetland Scientist* (2017, 2012, 2007, 1995)
Army Corps of Engineers: *Wetland Delineator* (Provisional Certification, Baltimore District
- Certificate No. DCP93MDO510035B)

SUMMARY OF EXPERIENCE

Mr. Kunz has worked full-time as a private sector ecological consultant for more than three decades. His primary focus has been on water quality and wetland issues. Mr. Kunz routinely deals with state and federal water quality laws and regulations on projects throughout Pennsylvania, New Jersey, and eastern New York. He has extensive experience in the technical evaluation and regulatory review of development projects, primarily focusing on wetland delineation, assessment, and regulatory analysis.

He is experienced in the full range of field techniques in relation to wetland boundary determination, environmental inventory, and impact assessment. He has assisted in the design and implementation of numerous successful wetland mitigation projects. He has provided public testimony on specific projects. He has provided public commentary on a range of issues including proposed federal and state environmental regulations, hydric soil criteria and indicators, wetland delineation methodologies, and impacts from fossil fuel extraction.

1997-PRESENT SENIOR ECOLOGIST, SCHMID & COMPANY, INC. (MEDIA PA)
1985-1997 ECOLOGIST, SCHMID & COMPANY, INC. (MEDIA PA)

Mr. Kunz's primary responsibilities include project management, wetland delineation and assessment, regulatory review and analysis, preparation of environmental permit applications, client coordination, and report writing and editorial review on projects where property is proposed for development, purchase or sale, or preservation. His responsibilities also include staff training and supervision, public and expert testimony, and the design and implementation of wetland mitigation projects.

1982-1985 ENVIRONMENTAL SCIENTIST, SCHMID & COMPANY (MEDIA PA)

Mr. Kunz was responsible for fieldwork, technical analysis, and report preparation on projects and sites requiring wetland identification and analysis. He also assisted in the preparation of environmental assessments and permit applications.

1981-1982 ENVIRONMENTAL PLANNER, TERA CORPORATION (KING OF PRUSSIA PA)

Mr. Kunz was involved in the preparation of EIS's on proposed developments in Maryland and New York. He was responsible for mapping, data compilation, and data analysis on a major railroad siting and alternatives study. He participated in the development of computer-based programs for interactive graphics.

1979-1981 PLANNER, WAPORA, INC. (BERWYN PA)

Mr. Kunz participated in numerous environmental assessments and impact reports throughout the middle Atlantic states. He conducted land use analyses requiring preparation of land use inventory maps, calculation of environmental carrying capacity, development of future land use scenarios, and evaluation of land management codes and regulations.

1978-1979 SOCIOECONOMIST, JACK McCORMICK & ASSOCIATES, INC. (BERWYN PA)

Mr. Kunz collected and analyzed demographic and socioeconomic data for the preparation of environmental impact statements dealing with regional wastewater facility projects in southeastern PA and MD, and with proposed coal mining activities in WV. He coordinated with federal, state, regional, and local agencies to identify their planning-related programs, policies, and regulations.

PROFESSIONAL AFFILIATIONS

Ecological Society of America (Certified *Senior Ecologist*)
New Jersey Academy of Science
Pennsylvania Academy of Science
Society for Human Ecology
Society of Wetland Scientists (Certified *Professional Wetland Scientist*)
Wetland Journal (Review Board 1999-2001)

CIVIC AFFILIATIONS

Schuylkill Township (PA) Environmental Advisory Council
Pennsylvania Campaign for Clean Water - Exceptional Value (PA-CCWEV) Workgroup

OTHER ACTIVITIES

Technical Review, *Protecting Pennsylvania's Cleanest Streams: A Review of Pennsylvania's Antidegradation Policies and Program with Recommendations for Improvements*. Prepared by the Delaware Riverkeeper Network, July 2011.

RECENT REPORTS: PRINCIPAL AUTHOR OR COAUTHOR (2007-2018)

- Kunz, Stephen P. 2018. Comments on Scope of Work for 5th Act 54 Five-Year Assessment. Prepared for Citizens Coal Council, Canonsburg, PA. Media PA. 15 p.
- Schmid & Company, Inc. 2017a. Stream protection in Pennsylvania in the context of underground coal mining. Prepared for Citizens Coal Council, Canonsburg, PA. Media PA. 30 p.
- Kunz, Stephen P. 2017b. Comments on "Definition of Waters of the United States" - Recodification of Pre-existing Rules, Docket ID No. EPA-HQ-OW-2017-0203. Submitted to US Environmental Protection Agency, Washington DC. Schmid & Company, Inc., Media PA. 3 p.
- Schmid & Company, Inc. 2017c. Potential impacts of the Atlantic Sunrise pipeline on exceptional value wetlands and special protection waters in Schuylkill County, Pennsylvania. Prepared for Delaware Riverkeeper Network, Bristol, PA, and Schuylkill Pipeline Awareness, Schuylkill County, PA. Media PA. 21 p.
- Schmid & Company, Inc. 2017d. Potential impacts of Mariner East II pipelines on wetlands, streams, and water supplies in Middletown Township and Delaware County, Pennsylvania. Prepared for Middletown Coalition for Community Safety. Media PA. 18 p.
- Schmid & Company, Inc. 2017e. A comparison of the water resource impacts associated with alternative alignments of the proposed Atlantic Sunrise pipeline on and near the Nesbitt property, Luzerne and Wyoming Counties, Pennsylvania. Prepared for Icarus Ecological Services, Inc., Saint Augustine, FL. Media PA. 23 p.
- Schmid & Company, Inc. 2016a. Comments on FERC DEIS for PennEast Pipeline Project in New Jersey. Prepared for the Delaware Riverkeeper Network, Bristol, PA. Media PA. 15 p.
- Schmid & Company, Inc. 2016b. The effects of the proposed PennEast pipeline on exceptional value wetlands in Pennsylvania. Prepared for the Delaware Riverkeeper Network, Bristol, PA. Media PA. 54 p.
- Kunz, Stephen P. 2016c. Comments on the proposal to reissue and modify nationwide permits, Docket No. COE-2015-0017. Submitted to US Army Corps of Engineers, Washington DC. Schmid & Company, Inc., Media PA. 5 p.
- Schmid & Company, Inc. 2016d. Wetland and stream impacts of Sunoco's Mariner East II pipeline. Prepared for Mountain Watershed Association and the Clean Air Council. Media PA. 22 p.
- Schmid & Company, Inc. 2016e. Longwall mining A to Z: learning from the Pennsylvania experience. Prepared for the Citizens Coal Council, Bridgeville PA. Media PA. 56 p.
- Schmid & Company, Inc. 2015a. Undermining the public trust: a review and analysis of PADEP's Fourth Act 54 Five-year Assessment report. Prepared for the Citizens Coal Council, Bridgeville PA. Media PA. 67 p.
- Schmid & Company, Inc. 2015b. Regulated waters and wetlands at the Fairview Golf Redevelopment site, Ridley Township, Delaware County, Pennsylvania. Prepared for Everest EB-5 Capital LLC, Havertown, Pennsylvania. Media PA. 46 p.

- Schmid & Company, Inc. 2015c. Comments to the Office of Surface Mining Reclamation and Enforcement regarding the Proposed Stream Protection Rule, Docket # OSM-2010-0018. Prepared for Foundation for Pennsylvania Watersheds, Alexandria PA. Media PA. 36 p.
- Schmid & Company, Inc. 2014a. The illusion of environmental protection: permitting longwall coal mines in Pennsylvania. Prepared for the Citizens Coal Council, Bridgeville PA. Media PA. 138 p.
- Schmid & Company, Inc. 2014b. PADEP Regulatory Jurisdiction at Green Pond/Traditions of America Site, Bethlehem Township, Northampton County, PA. Prepared for savegreenpond.org. Media PA. 64 p.
- Schmid & Company, Inc. 2014c. Petition to [Pennsylvania] Environmental Quality Board for redesignation of the Upper Browns Creek watershed, Greene County, Pennsylvania. Prepared for the Citizens Coal Council, Bridgeville PA. Media PA. 69 p.
- Stout, Benjamin M. III, Ph.D., and Schmid & Company, Inc. 2013a. Biological assessment of Stony Run, Springfield Township, Fayette County, Pennsylvania. Prepared for University of Pittsburgh Environmental Law Clinic on behalf of Youghiogheny Riverkeeper and Mountain Watershed Association. 18 p.
- Kunz, Stephen P. 2013b. Public comments presented at PADEP Citizens Advisory Council public meeting, 19 February 2013. Schmid & Company, Inc., Media PA. 5 p.
- Schmid & Company, Inc. 2013c. Existing conditions at a site along Dey Road; Block 25, Lot 5; Cranbury Township, Middlesex County, NJ. Prepared in conjunction with an application to NJDEP to confirm wetlands and waters at the subject property. Media, PA. 41 p.
- Schmid & Company, Inc. 2013d. Review of permit applications of Amerikohl Mining Inc. for proposed Walters Mine, Donegal Township, Butler County, Pennsylvania. Prepared for Citizens Coal Council, Bridgeville PA. Media PA. 35 p.
- Schmid & Company, Inc. 2012. Independent technical review of proposed Donegal Mine, Donegal Township, Butler County, Pennsylvania. Prepared for PADEP Office of Active and Abandoned Mine Operations, on behalf of Rosebud Mining Company. Media, PA. 72 p.
- Kunz, Stephen P. 2012. Comments to Thomas Callaghan, Director, PADEP Bureau of Mining Programs, on proposed Master Agreement with University of Pittsburgh to prepare the Fourth Act 54 Five-Year Review Report. Schmid & Company, Inc., Media, PA 11 p.
- Schmid & Company, Inc. 2012. Delineated wetlands and streams in eastern meadows at Longwood Gardens, Kennett, Pennsbury, and East Marlborough Townships, Chester County, Pennsylvania. Submitted to Philadelphia District Army Corps of Engineers on behalf of Bancroft Engineering and Longwood Gardens. Media, PA. 48 p.
- Schmid & Company, Inc. 2012. Comments to PADEP Division of Dam Safety on Dam Safety Permit Applications D30-079 and D30-080 for proposed Foundation Mine, Center and Jackson Townships, Greene County, Pennsylvania. Media, PA. 11 p.
- Schmid & Company, Inc. 2012. Application to NJDEP for Individual Freshwater Wetland Permit for Lot 2, Block 2301, Paramus Borough, Bergen County, NJ. Submitted on behalf of George Washington Memorial Park Cemetery Association (landowner). Media PA. 48 p.

- Schmid & Company, Inc. 2012. Comments to Pittsburgh District Army Corps of Engineers on Application CELRP-OP-F 2007-891 for proposed Foundation Mine. Center and Jackson Townships, Greene County, PA. Media PA. 17 p.
- Kunz, Stephen P. 2011. Comments on Dam Safety and Encroachments Act Permit Application E5729-014 (for proposed waterlines extending 1.8 miles across exceptional value streams and wetlands to support natural gas drilling). Submitted to PADEP Oil & Gas Management Program on behalf of the Foundation for Pennsylvania Watersheds. Schmid & Company, Inc., Media PA. 24 p.
- Schmid & Company, Inc. 2011. The increasing damage from underground coal mining in Pennsylvania: a review of the third Act 54 report. Prepared for Citizens Coal Council, Washington PA. Media PA. 50 p.
- Schmid & Company, Inc. 2011. Streams and wetlands on properties along Bear Mountain Road Elkland Township, Sullivan County, Pennsylvania. Prepared for Bear Mountain Landowners. Media PA. 79 p.
- Schmid & Company, Inc. 2011. Application to NJDEP for Letter of Interpretation Extension for Lot 3, Block 2I002 in Old Bridge Township, Middlesex County, and Lot 2, Block 176 in Marlboro Township, Monmouth County, NJ. On behalf of David Elkouby (landowner). Media PA. 29 p.
- Schmid & Company, Inc. 2011. Application to NJDEP for Letter of Interpretation Presence/Absence for Lot 2, Block 2301, in Paramus Borough, Bergen County, NJ. Submitted on behalf of George Washington Memorial Park Cemetery Association (landowner). Media PA. 48 p.
- Schmid & Company, Inc. 2010. Protection of water resources from longwall mining is needed in southwestern Pennsylvania. Prepared for Citizens Coal Council, Washington PA, with support from the Sierra Club. Media PA. 195 p.
- Kunz, Stephen P. 2010. Comments to Baltimore District Army Corps of Engineers on Proposal to Issue Pennsylvania State Programmatic General Permit 4. Schmid & Company, Inc., Media PA. 3 p.
- Schmid & Company, Inc. 2010. A need to identify "special protection" status and apply existing use protections to certain waterways in Greene and Washington counties, Pennsylvania. Prepared for Citizens Coal Council, Washington PA. Media PA. 95 p.
- Kunz, Stephen P. 2010. Comments to Pennsylvania Environmental Quality Board on Proposed Rulemaking 25 PA CODE Chapter 95 (Wastewater Treatment Requirements). Schmid & Company, Inc., Media PA. 3 p.
- Schmid & Company, Inc. 2009. Review of a petition to redesignate tributaries to South Fork Tenmile Creek from HQ-WWF to WWF, Center and Jackson Townships, Greene County, Pennsylvania. Prepared for Citizens for Pennsylvania's Future. Media PA. 28 p.
- Kunz, Stephen P. 2009. Comments to the US Army Corps of Engineers on the Proposed Suspension and Modification of Nationwide Permit 21 (Surface Coal Mining Operations). Schmid & Company, Inc., Media PA. 3 p.

- Schmid & Company, Inc. 2009. Application for Wetland General Permits #2, #10A, and #17 and Individual Flood Hazard Area Permit, Lot 18, Block 301; Berkeley Heights Township, Union County, NJ. Submitted on behalf of Ramesh Raman (landowner). Media PA. 65 p.
- Schmid & Company, Inc. 2008. Review of a petition to redesignate Grinnage Run from HQ-WWF to WWF, South Fork Tenmile Creek basin, Gray Township and Richhill Township, Greene County, Pennsylvania. Prepared for Center for Coalfield Justice, Mountain Watershed Association, and Citizens for Pennsylvania's Future. Media PA. 26 p.
- Schmid & Company, Inc. 2008. Application to NJDEP for freshwater wetland General Permits 7 and 11, Towneplace Hotel, Lot 13, Block 2301, Logan Township, Gloucester County, New Jersey. Prepared for SSN Hotel Management, LLC. Newark DE. Media PA. 52 p.
- Schmid & Company, Inc. 2008. Application to NJDEP for General Permit 7 and Transition Area Averaging Waiver, Lots 2 and 3, Block 134, Town of Kearny, Hudson County, New Jersey. Prepared for Arlington Cemetery Association, Kearny NJ. Media PA. 69 p.
- Kunz, Stephen P. 2008. Comments to US-EPA on the Final Environmental Impact Statement (EIS) on Excess Spoil Minimization – Stream Buffer Zones. Schmid & Company, Inc., Media PA. 7 p.
- Schmid & Company, Inc. 2008. Application to NJDEP for Letter of Interpretation Extension for Lot 2.03, Block 22.010, South Brunswick Township, Middlesex County, NJ. Submitted on behalf of Country Communities, LLC (landowner). Media PA. 28 p.
- Schmid & Company, Inc. 2007. An investigation of existing and historic environmental conditions at Arlington Cemetery associated with alleged NJDEP violations and a proposed resolution, Lots 2 and 3, Block 134, Town of Kearny, Hudson County, New Jersey. Prepared for Arlington Cemetery Association. Media PA. 108 p.
- Schmid & Company, Inc. 2007. Wetland conditions at a site along Worthington Mill Road, Wrightstown Township, Bucks County, Pennsylvania. Prepared for Brian Bentley. Media PA. 38 p.
- Schmid & Company, Inc. 2007. Wetland conditions at a site in Hatfield Township, Block 77, Montgomery County, Pennsylvania. Prepared for Hatfield 309 LLC. Media PA. 69 p.
- Kunz, Stephen P. 2007. Letter to Office of Surface Mining Reclamation and Enforcement, regarding advanced notice or proposed rulemaking regarding the placement of coal combustion byproducts in active and abandoned coal mines. 13 June 2007. 2 p.
- Schmid & Company, Inc. 2007. Wetland conditions at a property along US Route 9, Lots 13 and 14, Block 176, Marlboro Township, Monmouth County, New Jersey. Prepared for Seasons Real Estate of New Jersey, LLC, Hightstown, New Jersey. Media PA. 41 p.
- Kunz, Stephen P. 2007. Letter to Dennis G. Rice, Office of Surface Mining Reclamation and Enforcement, regarding excess spoil, coal mine waste, and buffers for Waters of the United States. 22 October 2007. 7 p.
- Schmid & Company, Inc. 2007. Application for General Permits #1, #2, and #10A; Lot 51, Block 4701; Pennsville Township, Salem County, New Jersey. Prepared for Robert Mistichelli. Media PA. 41 p.

Kunz, Stephen P. 2007. Letter to David Hartos, Office of Surface Mining Reclamation and Enforcement, regarding the Draft EIS on excess spoil minimization and stream buffer zones. 21 November 2007. 7 p.

Kunz, Stephen P. 2007. Letter to Senator Jeff Bingaman, Senate Energy and Natural Resources Committee, regarding OSM administration of SMCRA. 17 December 2007. 7 p.

Schmid & Company, Inc. 2007. Wetland conditions at a site along PA Route 309 (Bethlehem Pike) near Bergey Road, Block 76, Hatfield Township, Montgomery County, Pennsylvania. Prepared for Hatfield 309 LLC. Media PA. 42 p.

RECENT MAJOR ORAL PRESENTATIONS

Office of Surface Mining Reclamation and Enforcement, Pittsburgh PA, 16 July 2015 (*Longwall Coal Mining in the US*)

PADEP Citizens Advisory Council, Harrisburg PA, 17 March 2015 (*Undermining the Public Trust: A Review and Analysis of PADEP's Fourth Act 54 Five-Year Assessment Report*)

Pennsylvania Groundwater Symposium, Penn State University, State College, PA, 7 May 2014 (*Undocumented Groundwater Damage from Longwall Coal Mining in Pennsylvania*)

Citizens Coal Council Act 54 Strategic Meeting, Yorktowne Hotel, York PA, 26 September 2013 (*The Need to Reform Act 54*)

PADEP Citizens Advisory Council, Harrisburg PA, 20 November 2012 (*Major Concerns with Act 54 Reporting*)

Appalachian Public Interest Environmental Law Conference, Knoxville TN, 27 October 2012 (*Lessons From Regulating Longwall Coal Mining in Pennsylvania*)

Mid-Atlantic ESA Annual Meeting and Conference, Blacksburg VA, 14 April 2012 (*Increase in Aquatic Resource Impacts from Longwall Coal Mining Following Revision of Pennsylvania Underground Mining Law*)

Chester County Citizens for Climate Protection, West Chester PA, 7 December 2011 (*The Need to Reform Act 54*)

Morris Township Community Center, Nineveh PA, 22 June 2011 (*The Increasing Damage from Underground Coal Mining in Pennsylvania: A Review of the Third Act 54 Report*)

PADEP Citizens Advisory Council, Harrisburg PA, 19 April 2011 (*The Increasing Damage from Underground Coal Mining in Pennsylvania: A Review of the Third Act 54 Report*)

US Environmental Protection Agency, Philadelphia PA, 10 November 2010 (*Protection of water resources from longwall mining is needed in southwestern Pennsylvania*)

Schuylkill River Watershed Congress, Pottstown PA, 13 March 2010 (*Are "Special Protection" Waters Getting the Protection they Deserve?*)

JAMES A. SCHMID

EDUCATION

Ph.D., Geography, University of Chicago, 1972
M.A., Geography, University of Chicago, 1969
A.B., Geography, Columbia College, Columbia University, 1966

CERTIFICATIONS

Ecological Society of America: Senior Ecologist (1983; recertified 1988, 1993, 1999, 2008, 2014)
Society of Wetland Scientists: Professional Wetland Scientist #284 (1995; recertified 2007, 2012)
US Army Corps of Engineers, Baltimore District: Wetland Delineator Program (Provisional Certification #93MD0310008A)
US Fish & Wildlife Service: Habitat Evaluation Procedures (HEP 1981)

CONTACT INFORMATION

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SUMMARY OF EXPERIENCE

1985- **President, Schmid & Company, Inc.**, Consulting Ecologists. Dr. Schmid's current responsibilities include fieldwork, administration of contracts, writing and editing reports, regulatory analysis, client representation before agencies, expert testimony in court and at hearings, and overall management of the firm.

1981-1985 **Principal, Schmid & Company**, Consulting Ecologists. Dr. Schmid was responsible for fieldwork, project management, consultation with clients and regulatory agency personnel, the preparation and delivery of testimony in court and at public meetings, and the technical and editorial supervision of multidisciplinary reports.

1981-1982 **Principal Environmental Scientist, TERA Corporation**. Dr. Schmid provided technical supervision for a major environmental impact statement on alternative railroads in Niagara County, New York, and managed analyses of wetland fill and mitigation proposed in the New York and Philadelphia metropolitan areas and in the New Jersey Pine Barrens. He also worked on lignite mining projects in the Red River basin of western Louisiana.

1979-1981 **Principal Scientist, WAPORA, Inc.** Dr. Schmid supervised a statewide impact assessment of coal mining in Appalachia for the Environmental Protection Agency and provided technical direction for seven areawide environmental assessments of future coal mining in West Virginia. He managed impact statements for oil and coal terminals and prepared an extensive report on coastal zone management for the New Jersey Department

of Environmental Protection. He also served as senior technical advisor on projects in the Mississippi River basin, the eastern Kentucky coal fields, and the Texas Gulf Coast.

1973-1979 Chairman of the New York office (1973-1974) and Vice President, Jack McCormick & Associates, Inc., Pennsylvania office (1974-1979). Dr. Schmid managed environmental assessments and reports on proposed residential, industrial, and commercial developments at Brigantine, Secaucus, East Rutherford, North Bergen, Hoboken, and Camden, New Jersey; Philadelphia, Pennsylvania; and Beachville, Maryland. He directed inventories and analyses of the Fire Island National Seashore for the National Park Service and of the New York Bight for the National Oceanic and Atmospheric Administration. He designed and implemented a major analysis of environmental regulations and their effects on private industry for the US Department of Commerce and the President's Council on Environmental Quality.

1970-1973 Assistant Professor and Instructor in the Department of Biological Sciences, Barnard College and Columbia University. Dr. Schmid taught graduate and undergraduate courses in ecology, biogeography, environmental science, and cultural geography. His prime research interests were in the environmental effects of urbanization, the role of vegetation in cities, and the conceptualization and quality control of environmental assessments.

1968-1970 He served as technical editor for research papers in the Department of Geography at the University of Chicago.

Dr. Schmid has been a **guest lecturer on environmental analysis and wetlands at the University of Pennsylvania, Columbia University, Cabrini College, Clark University, West Chester State University, Rutgers University, and the Delaware County Community College.** He has often addressed wetland issues at the Polley Associates School of Real Estate. He has served on the Standing Committee on Environmental Education for the Association of American Geographers and has contributed reviews to the *Geographical Review* and to *Ecology*. He has served on the Board of Professional Certification of the Ecological Society of America and on the Certification Standards Committee of the Society of Wetland Scientists Professional Certification Program, Inc. For many years he served on the Environmental Advisory Board of Marple Township, Delaware County, Pennsylvania. He has peer reviewed journal articles for *Wetlands* and grant proposals submitted to the National Science Foundation, the US Department of State, and the National Geographic Society. Dr. Schmid has served as the elected president of the Chester County Beekeepers Association.

HONORS AND AWARDS

Columbia College Scholarship
Columbia College Phi Beta Kappa
A.B. cum *laude*, Columbia College, Columbia University
NDEA Title VI fellowship awards (U. Chicago, U. Wisconsin at Madison, U. Washington at Seattle, Johns Hopkins U.)
American Men of Science
Gubernatorial appointment to Pennsylvania Department of Environmental Protection's Citizens Advisory Council

PROFESSIONAL AFFILIATIONS

American Association for the Advancement of Science
Association of American Geographers
Association of State Wetland Managers
Ecological Society of America
New Jersey Academy of Science
New York State Wetlands Forum, Inc.
Society of Wetland Scientists

PROJECT EXPERIENCE

Dr. Schmid's career in environmental analysis began in the late 1960s. He has worked for all types of clients, including federal agencies, state agencies, municipalities, private developers, utilities, conservation groups, attorneys, architects, and engineering firms on many kinds of assignments.

While on the faculty of Biological Sciences at Columbia University, Dr. Schmid introduced students to the ecology of the New York-New Jersey metropolitan area and the New Jersey Pine Barrens. His scholarly research focuses on urban vegetation and historic changes in vegetation affected by human activity. His first environmental impact assessment and recommendations for minimizing impacts were prepared for a developer while he was still a graduate student and dealt with a proposed residential subdivision in the Thorn Creek Woods of suburban Will County, Illinois.

During his graduate studies in plant ecology at the University of Chicago, Dr. Schmid became familiar with the bogs and floodplain vegetation of northern Illinois, northern Indiana, and southern Michigan. While a visiting graduate student at the University of California at Los Angeles, he worked on the flora of the Mojave Desert and Santa Monica Mountains of southern California with Mildred Mathias, and he accompanied Jonathan Sauer on a flora collecting expedition to San Clemente Island. He helped Monte Lloyd collect periodic cicadas in Illinois, Ohio, and West Virginia. His master's thesis dealt with historic vegetation change in the subhumid to semi-arid limestone Edwards Plateau of southcentral Texas.

During his six years as Project Manager and Vice President at Jack McCormick & Associates, Dr. Schmid was closely associated with the late Dr. McCormick (a nationally recognized authority on wetlands and environmental assessment), both in field analyses and in project planning aimed at preserving, enhancing, restoring, or creating wetland ecosystems.

Dr. Schmid has participated in more than 100 environmental impact statements prepared using Federal, State, or local guidelines. He wrote a major analysis of the effects of the National Environmental Policy Act and Federal EISs on private industry for the US Department of Commerce, and conducted a follow-on seminar sponsored by the Council on Environmental Quality and the American Management

Association. He prepared a shortened version of the report for distribution by the Commerce Department and the Business Roundtable. As senior scientist he worked on diverse projects in Maine, West Virginia, Kentucky, Illinois, Iowa, Texas, Louisiana, Washington State, and Pacific coastal Nicaragua, not to mention the mid-Atlantic States. He participated in several wastewater treatment system EISs in suburban Philadelphia, suburban Baltimore, and at Oakwood Beach, Staten Island.

In the Hackensack Meadowlands of New Jersey, Dr. Schmid was responsible for the analyses and negotiations that led to issuance of major Federal and State permits (Clean Water Act Section 404) to fill wetlands and the Hackensack River at the Harmon Cove residential development (96 acres) and for compliance monitoring at the New Jersey Sports Complex (federal permit, 35 acres; State permit, 250 acres of tidal and non-tidal wetlands). He also was involved with assessments of a proposed new freeway (US 1 & 9), the initial Hartz Mountain Harmon Meadows Tract shopping and residential development proposal, the redevelopment of a city park (Lincoln Park West) in Jersey City, and a plan for wetlands enhancement in connection with a proposed sand and gravel operation in North Bergen. He was responsible for environmental studies, mitigation plans, and technical negotiations that led to issuance of a major Corps permit to fill 127 acres of marsh with compensation by enhancing 151 acres. He recently analyzed historic land use activities at a cemetery at the edge of the Meadowlands to ascertain the extent of wetland violations and aid the landowner in attaining compliance with NJDEP requirements.

Dr. Schmid directed a comprehensive inventory of Fire Island National Seashore in Suffolk County, New York, for the National Park Service. In New Jersey, he assisted Dr. McCormick in designing satisfactory restoration leading to permits for filling 11 acres for development in the southernmost section of Brigantine Island facing Atlantic City. In New Jersey he has worked on several analyses of beach protection and the effects of altering sand dunes, a major concern also at Fire Island National Seashore. He has participated in numerous wetland permit applications and resolution of enforcement cases in Staten Island and Brooklyn.

Dr. Schmid wrote a Federal EIS on a proposed fuel oil transfer and storage terminal in the Hudson River under contract to the New York District of the Army Corps of Engineers. Dr. Schmid also was responsible for coastal wetland projects along the Shark River, at Ocean City, and along Barnegat Bay. He supervised an analysis of the freshwater tidal marsh at Fish House Cove on the Delaware River for the Camden County Environmental Agency and a comprehensive review of proposed development in salt marshes along a barrier beach in Sussex County, Delaware, for the Delaware Department of Natural Resources and Environmental Control. Dr. Schmid supervised evaluations of several marshes along Delaware Bay in New Jersey and Delaware for National Natural Landmark status on behalf of the National Park Service.

His extensive analysis of coastal zone management in New Jersey, with a detailed account of the administration of the (Tidal) Wetlands Act and other wetland

regulations, formed a major part of a four-volume Estuarine Study submitted to the New Jersey Department of Environmental Protection in 1979. Dr. Schmid managed a residential development analysis near the mouth of the Potomac River at Beachville, Maryland, and he wrote the foreword to Dr. McCormick's monumental report on the coastal wetlands of Maryland at the request of the Maryland Department of Natural Resources.

Dr. Schmid has represented developers in regulatory negotiations concerning wetlands at Bethany Beach, Delaware; near the mouth of the Raritan River for a major new town associated with New Jersey's largest industrial park; in Gloucester City, New Jersey, where a freshwater tidal marsh was restored; at the DuPont Chambers Works, a major chemical plant adjacent to the Delaware River in Salem County, New Jersey; and in Bucks County, Pennsylvania, where a waterfront slag plant was proposed. He successfully designed mitigation for a major marine container terminal expansion, which entailed the filling of 16 acres in the Delaware River and 8 acres of freshwater tidal marsh and oversaw the restoration of a tidal marsh on the Neshaminy Creek. He has achieved full success in all of his wetland restoration and creation projects.

For the National Oceanic and Atmospheric Administration Dr. Schmid assembled a multidisciplinary panel to establish priority chemical contaminants of the New York Bight. This report formed the basis for funding by NOAA of research on chemicals in the 15,000 square miles of ocean waters off New York and New Jersey.

Dr. Schmid has worked on behalf of developers, environmental groups, and regulatory agencies in the Pinelands of southern New Jersey. Dr. Schmid's analyses enabled the New Jersey Pinelands Commission to approve development on a site with 355 acres of wetlands in Burlington County for more than 2,500 housing units under a hardship application. He assembled a review of vegetation and critical areas mapping in the Pinelands on behalf of a developer near Mays Landing. He wrote a critique of the Pinelands Commission's inventory mapping for the Sierra Club, and he defended a developer and the Pinelands Commission in a challenge to a regulatory decision approving a residential project. He represented the New Jersey Conservation Foundation, Environmental Defense Fund, and other conservation groups challenging a Pinelands Commission hardship waiver on a major residential development. He also supervised a critique of the proposed USEPA designation of a sole-source aquifer in southern New Jersey on behalf of the South Jersey Homebuilders Association. He analyzed the significance of potential impacts on wetlands and other resources by railroad construction in upstate New York under a third-party agreement to produce the major Federal EIS which preceded project approval.

Dr. Schmid assisted in an evaluation of development adjacent to the Tannersville Bog in Monroe County, Pennsylvania, on behalf of The Nature Conservancy. He demonstrated that a proposed nearby housing development posed no threat to the National Landmark bog. He has worked on other wetlands at several locations in the

Poconos where delineations and permit approvals were necessary. He oversaw a National Natural Landmarks evaluation of the Great Piece Meadows in northern New Jersey for the National Park Service and an assessment of impacts from regional sewer construction on the Great Swamp of the upper Passaic River for the US Environmental Protection Agency.

He supervised analyses of proposed development around Lake Valhalla in Morris County, and his testimony helped Montville Township zoning withstand challenge and appeal through the New Jersey court system. He managed the successful technical defense of a highway contractor, accused of polluting Lake Saginaw in Sussex County, New Jersey, with sediment, on behalf of Liberty Mutual Insurance Company. In Morris County he oversaw wetland boundary mapping on a 200+ acre tract and successfully defended the mapping through agency review and intervenor challenge. His project work has taken him to most of the major wetlands in the Passaic River Basin of northern New Jersey: Great Piece Meadows, Troy Meadows, Bog and Vly Meadows, Black Meadow, and Hatfield Swamp.

In Pennsylvania Dr. Schmid has supervised permitting for numerous residential, industrial, and commercial developments including landfills and shopping malls. He analyzed impacts and prepared reports and expert testimony on the impacts of coal mines, surface mines, fiber-optic cables, water wells, and residential subdivisions for various clients including the Izaak Walton League of New Jersey, the Raymond Proffitt Foundation, the Delaware Riverkeeper, the Center for Coalfield Justice, the Mountain Watershed Association, and the Green Valleys Association. He prepared the wetland-related sections of the Crum Creek Rivers Conservation Plan for the Department of Conservation and Natural Resources. He has examined a number of sites for rare species such as bog turtle and beach plum.

Dr. Schmid's principal expertise and professional interest lie in the analysis of urban vegetation and in the design and establishment of functioning ecosystems in the form of new wetlands, reclaimed landfills, mined areas, and other vegetated spaces in the increasingly human-dominated environment. Under his supervision, Schmid & Company has participated in many hundreds of wetland projects throughout New Jersey, Pennsylvania, and New York State, as well as projects in other States.

When the US Fish & Wildlife Service Pleasantville Office evaluated actual compliance with approval conditions by all the Clean Water Act Section 404 fill permits issued by the Corps of Engineers in the State of New Jersey during the period 1985-1992, every Schmid & Company mitigation project was judged in the field to exhibit full compliance with all requirements and mitigation goals. Schmid & Company mitigation projects represented 21% of all the mitigation projects judged fully successful in New Jersey by USFWS in its written report to USEPA.

PUBLICATIONS

ACADEMIC RESEARCH

Doctoral Dissertation: Urban vegetation, a review and Chicago case study. University of Chicago, Department of Geography (published in full; see below).

Masters Thesis: The wild landscape of the Edwards Plateau of southcentral Texas: a study of developing livelihood patterns and ecological change. University of Chicago, Department of Geography. 1969. 144 p.

BOOKS

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- Schmid & Co., Inc. 2002. Site conditions at a property along Jefferson Avenue, Lots 114 and 116, Block 3864, Staten Island, Richmond County, New York. Prepared for V. Grinberg, Staten Island, New York. Media PA. 43 p.
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- Schmid & Co., Inc. 2008. Review of a petition to redesignate Grinnage Run from HQ-WWF to WWF, South Fork Tenmile Creek basin, Gray Township and Richhill Township, Greene County, Pennsylvania. Prepared for Center for Coalfield Justice, Mountain Watershed Association, and Citizens for Pennsylvania's Future. Media PA. 26 p. www.schmidco.com
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- Schmid & Company, Inc. 2016. Comments on FERC DEIS for PennEast Pipeline Project in New Jersey. Prepared for the Delaware Riverkeeper Network, Bristol, PA. Media PA. 15 p.
- Schmid & Company, Inc. 2017. A comparison of the water resource impacts associated with alternative alignments of the proposed Atlantic Sunrise pipeline on and near the Nesbitt property, Luzerne and Wyoming Counties, Pennsylvania. Prepared for Icarus Ecological Services, Inc., Saint Augustine, FL. Media PA. 23 p.
- Schmid & Company, Inc. 2017. Potential impacts of Mariner East II pipelines on wetlands, streams, and water supplies in Middletown Township and Delaware County, Pennsylvania. Prepared for Middletown Coalition for Community Safety. Media PA. 18 p.
- Schmid & Company, Inc. 2017. Potential impacts of the Atlantic Sunrise pipeline on exceptional value wetlands and special protection waters in Schuylkill County, Pennsylvania. Prepared for Delaware Riverkeeper Network, Bristol, PA, and Schuylkill Pipeline Awareness, Schuylkill County, PA. Media PA. 21 p
- Schmid & Company, Inc. 2017. Stream protection in Pennsylvania in the context of underground coal mining. Prepared for Citizens Coal Council, Cannonsburg, PA. Media PA. 30 p.

Current address

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http://en.wikipedia.org/wiki/Piotr_Parasiewicz

Synopsis

Piotr Parasiewicz was born in Warsaw in 1961 as a son of chemical engineers Dr. Wanda and Kazimerz Parasiewicz. He completed K. Gottwald High School (currently S. Staszic) in Warsaw and started his higher education at the University of Agricultural Sciences in Warsaw (SGGW). In 1982 he left the country and continued his education as a civil and environmental engineer at the University of Agricultural Sciences in Vienna. He started his career in 1988 as a research associate in an interdisciplinary team of biologists, water engineers and landscape ecologist at the Department of Hydrobiology, Fisheries and Aquaculture of the same University. This position strongly influenced his professional development and provided him with multidisciplinary expertise on **river ecology and restoration engineering**. He was a member of the Austrian Network for Environmental Research advising the Austrian Government on the development of EU environmental and research policy, and actively participated in shaping the EU Water Framework Directive.

In 1999 he received a David H. Smith Fellowship from The Nature Conservancy in the USA, and began his career as a research Professor at Cornell University and later University of Massachusetts, Amherst and Mount Holyoke College. In 2007 he founded the Rushing Rivers Institute, a river research non-profit (www.RushingRivers.org) where he serves as a Director. He is also currently an Adjunct Professor at the University of Nebraska, Lincoln.

Dr. Parasiewicz's career is strongly affected by cross disciplinary collaborations worldwide. He is the creator of the International Aquatic Modeling Group (IAMG), a researcher network aiming to improve knowledge on running water habitats. For his strong aptitude as the president of IAMG in 1999 he received funding from the European Science Foundation that supported COST Action 626: European Aquatic Modelling Network. Scientists from over 40 countries participated in the network, which spawned a number of collaborative publications and international projects. Dr. Parasiewicz's research is supported by federal and state governments, non-profit organizations and industries. Dr.

Parasiewicz frequently serves as a technical advisor for State and Federal Governments in the USA and abroad.

Research expertise and interests

River science and restoration engineering: Instream flow and habitat modeling, river restoration and management, Fish ecology and fisheries management, Fish passage, River Survey and Instrumentation, Geographical Information Systems (GIS), Remote sensing, Digital Terrain Models (DTM), environmental statistics, computer programming, Computer Aided Design (CAD).

Scientific accomplishments:

Dr. Parasiewicz is an applied scientist dedicated to research necessary for sustainable management of running waters. He combines engineering with ecological sciences and developing tools for effective restoration and management planning. He is best known for his development of **MesoHABSIM** (www.MesoHABSIM.org), a multiscale approach for instream habitat modeling. MesoHABSIM is currently used in river restoration and planning worldwide, particularly in the USA, Europe and recently New Zealand. His other scientific accomplishments are among others:

- concept of Virtual River Model,
- concept of Bioperiods,
- concept of Upscaling in habitat modeling,
- Geodetically Based Irregular Sampling protocol for river surveys,
- development of multiplex survey instrument Depth Velocity Position Bar,
- Uniform Continuous Under Threshold Analysis of Habitat Time Series,
- Habitat Meter
- conceptual guidelines for construction and planning of nature-like fish bypass channels.

The results and ideas are published as 68 scientific papers (20 in highly ranked peer reviewed journals) and on-line.

Education:

- 1998 - Ph. D. (Doctor rerum naturalium technicarum, doctor of science *summa cum laude*) Natural Resources Management and Water Engineering, University of Agricultural Sciences in Vienna, Austria.
Advisors: Univ. Prof. Dr. Mathias Jungwirth and ao. Univ. Prof. Dr. Stefan Schmutz.
- 1993 - G. E. (Dipl. Ing.), Environmental and Water Engineering, University of Agricultural sciences in Vienna, Austria.
Advisors: Univ. Prof. Dr. Mathias Jungwirth and Univ. Prof. Dr. Siegfried Radler.

1988 - B.S., Environmental and Water Engineering, Department of Hydrobiology, Fisheries and Aquaculture, University of Agricultural Sciences, Vienna, Austria.

Memberships in professional societies

International Aquatic Modeling Group,
American Fisheries Society
International Society for River Science
River Management Society

Academic appointments

2007-pres. Rushing Rivers Institute, Director.

2009–pres. University of Nebraska, Lincoln, NE

Adjunct Professor, School of Natural Resources

2007-2009. Mt. Holyoke College, Mt. Holyoke, MA

Research Associate and Adjunct Professor, Department of Earth and Environment

2004-2007 University of Massachusetts, Amherst, MA

Research Associate Professor, Department of Natural Resources Conservation

2003-2007 University of Connecticut, Storrs, CT

Adjunct Assistant Professor in Aquatic Ecology and Engineering, Department of Natural Resources Management and Engineering

2000-2004 Cornell University, Ithaca, NY

Research Associate IV. Department of Natural Resources. Director, Instream Habitat Program

2000-2004 University of Massachusetts, Amherst, MA

Adjunct Assistant Professor in Aquatic Ecology and Engineering, Department of Natural Resources Conservation.

1999-2000 Cornell University, Ithaca, NY

Post Doctoral Fellow, Aquatic Ecological Engineering, New York Cooperative Fish and Wildlife Research Unit

- 1998-1999 University of Agricultural Sciences, Vienna, Austria
University Lecturer, Institute of Water Provision, River Ecology and
Waste Management Department of Hydrobiology, Fisheries and
Aquaculture
- 1994-1998 University of Agricultural Sciences, Vienna, Austria
Research Associate, Institute of Water Provision, River Ecology and
Waste Management. Department of Hydrobiology, Fisheries and
Aquaculture
- 1988-1994 Research Assistant, Department of Hydrobiology, Fisheries and
Aquaculture, University of Agricultural Sciences, Vienna, Austria

Honors and awards

- 2007 – US Government. Residency as an individual of extraordinary abilities.
- 2006 - American Fisheries Society - Certified Fisheries Professional
- 2005 – Microsoft Research Grant: A Tiered Smart Client System for Annotating
the Land-Water Interface: Enabling Scientific Simulation. Together with
Chris Pal. \$50,000
- 1999 - The Nature Conservancy: David H. Smith Fellowship - International
Collaborations. \$25,000.
- 1998 - *Summa Cum Laude*
- 1993 - First award and grant „100 Jahre Kulturtechnik und Wasserwirtschaft" for
Master Thesis : CAD-application in eco-morphological investigations of
running waters. - Eternit ATS 10,000

Special training courses

- 1994 – Instream Flow Incremental Methodology (IFIM) - Stream Habitat
Sampling Techniques" Colorado State University, Ft. Collins, CO
- 1994 - "Using Computer-Based Physical Habitat Simulation (PHABSIM) System",
Utah State University, Logan, UT

Languages

Fluent in Polish, Russian, German, English
Passive knowledge of Hungarian and Arabic

Current and recent research projects

- An Instream Flow Assessment of the Little River, CT, Town of Putnam. 3/2010-3/2011. \$159,000
- Developing Environmental Flows in the Niobrara River for Fish and Wildlife. Nebraska Department of Games and Parks. 7/2009-6/2011. Co-PI with M.Pegg. \$795,050
- An interactive, GIS-based application to estimate target fish communities in Northeastern streams. Regional Conservation Needs. Northeast Association of Fish and Wildlife Agencies. 1/2009-12/2010. \$64,000.
- Development of a mitigation method and ecological impacts offset for spring water withdrawals on downstream habitats for fish and invertebrates. Reconnaissance study on Wekepeke Brook. Nestlé Corporation. 6/2008-5/2010. \$200,000
- Development of Draft Environmental Flow Recommendations for the Saugatuck River Watershed. The Nature Conservancy 6/2008-3/2009. \$50,000.

Past Research Projects (since arrival in US 1999)

- Pine Brook Habitat Assessment and Restoration Planning – reconnaissance survey. Mass. Riverways Program. 4/2008-6/2008. \$15,000.
- Using hydromorphological signatures to determine flow related habitat thresholds for instream communities. Co-PI with Christina Cianfrani of Hampshire College. USGS 3/2006-3/2008. \$50,000
- Instream flow studies and watershed management plan for the Lamprey River Designated Reach. New Hampshire Department of Environmental Services. Co-PI with Don Kretchmer, Normandeau Associates and Tom Ballestero, University of New Hampshire. 8/05-12/07. \$250,000
- Validation of In-Stream Habitat Models for the Fenton River, Storrs, Connecticut. Connecticut Department of Environmental Protection. Co-PI with Glen Warner. 7/05-5/07. \$71,000.
- Dwarf Wedgemussel Habitat Study on the Upper Delaware River. US Fish and Wildlife Service 6/05 – 12/08. \$631,000
- Instream flow studies and watershed management plan for the Souhegan River Designated Reach. New Hampshire Department of Environmental Services. Co-PI with Tom Ballestero, University of New Hampshire and Don Kretchmer, Normandeau Associates. 6/04-5/06. \$250,000
- Eightmile River Instream Flow Study. National Park Service. 2/04/-5/06. \$87,000
- Developing a sustainable management plan for the Pomperaug River watershed. Phase II. Pomperaug River Watershed Coalition. Principal Investigator. 3/04-1/06. \$55,000
- Feasibility study of removal of Hatfield Dam – Hatfield, MA. Massachusetts Environmental Trust. Co-Principal Investigator (with S. Jackson). \$30,000

- Fish habitat study for Long-Term Impact Analysis of the University of Connecticut's Fenton River Water Supply Wells on the Habitat of the Fenton River. University of Connecticut. Principal Investigator. 4/03-8/05. \$46,300
- Defining restoration needs for Beartrap Creek. Onondaga Lake Partnership and Isaak Walton League. Principal Investigator. 6/03-12/03. \$4,700
- Instream habitat evaluation of Santee River, South Carolina below Wilson Dam. Santee Cooper AG. Principal Investigator. 1/03-1/05. \$250,000
- Developing a sustainable management plan for the Pomperaug River watershed. Pilot study. Connecticut Department of Environmental Protection. Principal Investigator. 6/02-10/03. \$25,000
- Application of MesoHABSIM on Stony Clove – PHASE I and Demonstration of integrating instream habitat assessment into local watershed management. Green County Soil and Water Conservation District and New York City Department of Environmental Protection. Principal Investigator. 6/02-8/03. \$43,800
- Demonstration of integrating instream habitat assessment into local watershed management. New York State Water Resources Institute. Principal Investigator. 3/01-2/02. \$18,000
- Conservation planning on the Mill River on Hatfield. The Nature Conservancy and Massachusetts Environmental Trust. Principal Investigator. 11/2001-10/2002. \$24,000
- Instream Flow Requirements of Mill River – Hatfield, MA. Massachusetts Department of Environmental Management. Co-Principal Investigator (with S. DeStefano and S. Jackson). 6/2000-6/2001. \$30,000
- River Scale Instream Flow Simulation - New York State Water Resources Institute. Principal Investigator. 3/2000-2/2001. \$6,000
- Ecohydrology study of Quinebaug River. Principal Investigator. New England Interstate Water Pollution Control Commission. Principal Investigator. 10/1999-12/2003. \$508,000
- International Network to Harmonize and Improve Knowledge and Assessment Methods of Biotic-Abiotic Interactions in Running Waters as a Conservation Tool. The Nature Conservancy. Principal Investigator. 12/1999-12/2000. \$25,000

Select professional services

Scientific advisor:

National Oceanic and Atmospheric Administration. Reviewer of fish passage barriers manual. 2010.

Massachusetts Executive Office of Environmental Affairs. Sustainable Water Initiative Technical Subcommittee. Boston, MA. 2009-present.

River Network Science Task Force. USA. 2009

Connecticut Department of Environmental Protection. Science and Technical Workgroup on Water Flow Regulations for the State, Hartford, CT 2006 – 2007

American Fisheries Society. Bioengineering Section. Education committee for development of fluvial engineering curriculum. USA. 2002 -2004

Potomac River Basin Commission. Potomac Minimum Instream Flow Methods Workshop, Potomac, MD. 4/8-9/2003

Rhode Island Water Resources Board. Water Allocation Program Advisory Council, Providence, RI, 2003

New York Department of Environmental Conservation. Hydrological Habitat Modification workgroup of Non-Point Source Pollution Committee, Albany, NY. 2001-2004

Connecticut Water Planning Council Technical Committee . New Britain, CT 6/30/2002

Austrian Network for Environmental Research. River Ecology Sub-network 1997-99

Invited speaking engagements:

Keynote for EUROMECH Colloquium 523 Clermont-Ferrand, France, 15-17 June, 2011

Leibniz-Institute of Freshwater Ecology and Inland Fisheries. Seminar on Application of MesoHABSIM. Berlin. 10/4/2010

New Zealand Regional Council of Governments. 2 Day Seminar on Application of MesoHABSIM approach.

ETH Zurich. Seminar on Application of MesoHABSIM. Kastanienbaum, Switzerland. 10/30/2009.

EPFL Lausanne. Seminar Use of the Mesohabitat Simulation Model (MesoHABSIM) for Instream Habitat Assessments, Lausanne, Switzerland. 10/29/2009.

University of Montreal. Application of MesoHABSIM model and habitat time series analysis for flow management and river restoration. Montreal, Canada. 1/25/2009.

Polish Ministry of Industrial Development. Contemporary techniques in River management. Warsaw, Poland 5/22/05

European Commission. European Aquatic Modelling Network. Final conference of COST Action 626 in Silkeborg, Denmark 5/19-20/2005

NOAA Restoration Center. "Connecting science to Application". 4/13/05

Institute of Ecosystem Studies. Conference Hudson River Tributaries: the State of Our Knowledge. Millbrook, NY. 6/12/2003.

INRS Eau terre et Environnement, Canada. International workshop on "State of the art in habitat modeling and conservation flows", Quebec City, Canada. 3/4 -5/2003

- Iowa Institute of Hydraulic Research.** Workshop Hydrosience and Engineering, The University of Iowa, Iowa City, IA. 2/7/2003
- New York Chapter of American Fisheries Society.** "Restoring Natural Flow Regimes: Dam Removal as a Tool in River Restoration" Canandaigua, NY. 1/9/2003
- European Science Foundation.** "Upscaling Workshop" of COST Action 626: "European Aquatic Modelling Network", Gent, Belgium. 12/11-13/2002
- Massachusetts River Restore Program.** Environmental Risk for Dams, Marlborough, MA. 11/19/2002
- University of Wisconsin-Madison.** Engineering Innovative Fish Passage Dam Removal and Nature-like Fishways, Waterville Valley, NH. 10/20-10/24/2002
- American Fisheries Society** – Organizing committee of Fisheries Bioengineering Symposium, Baltimore, MD. 8/25-30/2002
- New England Interstate Water Pollution Control Commission.** Instream Habitat Program, New London, CT 5/16/2002
- Nebraska Department of Game and Parks.** Platte River Workshop. Pallid Sturgeon/Sturgeon Chub Task Force. Lincoln, NE 1/23-24/2002
- The Nature Conservancy.** Managing the flows for biodiversity – A conference on science, policy and conservation action. Colorado State University. Fort Collins, CO 7/30-8/2/2001
- European Science Foundation.** COST Action 626 "European Aquatic Modelling Network", Trondheim, Norway, 5/11-12/2001
- University of Oslo, Norway.** Zoological Museum of University of Oslo, Oslo, Norway. 5/8/2001
- US Fish and Wildlife Service.** Eastern Hydropower Licensing Workshop Northeast and Southeast Regions. National Conservation Training Center, Shepherdstown, WV, 8/29–31/2000
- HydroVision 2000 Conference.** Session: International Water Power Regulations and Compliance, Charlotte, NC, August 2000
- Instream Flow Council.** National Meeting. Higgins Lake, MI. 5/22-24/2000.
- US Army Corps of Engineers.** Worksop "Passage for Non-Salmonid Fishes in Streams and Rivers: A Critical Element in Ecosystem Management and Restoration", Wilmington, NC, 4/25-4/27/2000
- US Fish and Wildlife Service.** Roanoke River hydropower licensing workshop, Raleigh, NC. 11/30-12/2/99.
- European Commission.** International workshop "Water Related Conflicts: Research Deficits and Demands" in preparation of Fifth Framework Program. Katowice, Poland 1998.

For profit consulting and professional services.

- 2009 Stroughan Environmental. Expert review of White Marsh fishway design.
- 2008 Trout Unlimited and Connecticut River Watershed Council
Expert witness for Appeal of Massachusetts Department of Environmental Protection permitting of Biomass Gasification Project in Russell, MA
- 2008 Friends of Quinebaug River
Expert witness for Connecticut Department of Environmental Protection Review of the proposed Biomass Gasification Project in Plainfield, CT.
- 2008 Residents for Alternatives to Trashing Southbridge
Expert witness for Board of Health Review of the proposed expansion of the Southbridge Landfill.
- 2007/2008 Trout Unlimited
Consultant. Impact of planned Yale Farm Golf Club on the ecology of adjacent streams.
- 2004 Trout Unlimited
Expert witness for Issues Conference for the Belleayre Project at Catskill Park
- 2003 US Army Corps of Engineers.
Consultant. Habitat Restoration Team an oversight committee of Onondaga Lake Watershed Restoration project, Syracuse, NY.
- 2002 Natural Resources Council of Maine.
Consultant. Review of existing by-pass channels for dam removal study. Augusta, ME.
- 2002 US Bureau of Reclamation
Consultant. Expertise on fish passage options at San Acacia Dam on Middle Rio Grande River, Albuquerque, NM.
- 2002 US Fish and Wildlife Service.
Consultant. Expertise on instream flow settings on the Santee River below Willson Dam, FERC re-licensing project, Charleston, SC.
- 2001-2002 US Army Corps of Engineers.
Consultant. Supervision of planning of nature-like bypass channel on Lock and Dam Number 1 on the Cape Fear River, Wilmington, NC.

- 2001-2002 US Fish and Wildlife Service.
Consulting expert for construction of fish-passage facility on New Savannah Bluff Dam, Savannah River, Augusta, GA.
- 2001 Trout Unlimited.
Consultant. Report: Instream flows of the Upper Delaware River, Roscoe, NY.

Teaching experience

- 2008-2009 Technical University of Madrid, Spain
MesoHABSIM: Instream Data collection and modeling.
- 2007-2009 Rushing Rivers Institute, Amherst
MesoHABSIM: Instream Data collection and modeling.
MesoHABSIM Approach and Application
MesoHABSIM Computation and SIM-Stream Software
MesoHABSIM Field Techniques
- 2004-2007 University of Massachusetts
NRC 597R: MesoHABSIM: Instream Data collection and modeling.
Guest lecturer: WFCON 597W Wetland Conservation
- 2001-2003 Cornell University.
Guest lecturer NTRES 110, Introduction to the Field of Natural Resources, Department of Natural resources
Guest lecturer BEE 371, Hydrology and the Environment
Department of Biological and Environmental Engineering,.
- 1995 -1999 University of Agricultural Sciences, Vienna
"Eco-morphology of running waters" within the hydrobiology lab.
This practical course enrolled annually over 200 undergraduate and graduate students. It took place in Lunz am See in the Austrian mountains, and consisted of lectures and field work.

Professional education courses in US:

US Fish & Wildlife Service, National Conservation Training Center –
Invited instructor for Fish Passageways & Bypass Facilities-East Course,
Hadley, MA, measure and Nature-like bypass channels. 7/10/2000

University of Wisconsin-Madison - invited lecturer Engineering Innovative
Fish Passage Dam Removal and Nature-like Fishways, Waterville Valley,
New Hampshire, 10/20-10/24, 2002.

University of Wisconsin-Madison - invited lecturer. Urban Channel Design
and Rehabilitation: Biotechnical engineering, Watershed concepts,
recapturing the stream corridor, Engineering alternatives, Madison,
Wisconsin, 11/28-11/30, 2000

PUBLICATIONS AND REPORTS

Dissertations

PARASIEWICZ P. 1998. Computer aided methods for biological investigations of hydro-morphological attributes of running waters – Selected aspects of data collection and analysis. Ph. D. Dissertation. Department of Hydrobiology, Fisheries and Aquaculture, University of Agricultural Sciences, Vienna, Austria.

PARASIEWICZ P. 1993. CAD-application in eco-morphological investigations of running waters. Master Thesis. Department of Hydrobiology, Fisheries and Aquaculture, University of Agricultural Sciences, Vienna, Austria.

Refereed articles

1. VEZZA P., PARASEWICZ P., ROSSO M., COMOGLIO C., (in press). Defining environmental flows requirements at regional scale by using meso-scale habitat models and catchments classification. *Rivers Research and Application*.
2. GORTÁZAR J, PARASIEWICZ P., GONZÁLEZ C. A. & D. G. DE JALÓN (in press). Physical habitat assessment in the river tajuña (Spain) by means of the mesohabsim approach. *Limnetica special volume in river habitats*.
3. PARASIEWICZ P., RUBIAL J. G., SANCHEZ M. M. & D. G. DE JALÓN (2009) Mesohabsim: an effective tool for river and watershed management [Mesohabsim: una herramienta eficaz para la gestión de ríos y cuencas fluviales]. *Tecnología del Agua*. **29** (309):20-26.
4. JACOBSON R. A., WARNER G., PARASIEWICZ P., BAGTZOGLOU R. & F. OGDEN (2009) An Interdisciplinary Study of the Effects of Groundwater Extraction on Freshwater Fishes. *International Journal of Ecological Economics & Statistics*. **12** (F08) :7-26.
5. PARASIEWICZ P. (2008): Habitat time-series analysis to define flow-augmentation strategy for the Quinebaug River, Connecticut and Massachusetts, USA. *River Research and Application*. **24**: 439–452.
6. PARASIEWICZ P. (2008): Application of MesoHABSIM and target fish community approaches for selecting restoration measures of the Quinebaug River, Connecticut and Massachusetts, USA. *River Research and Application*. **24**: 459–471.
7. PARASIEWICZ P. (2007): The MesoHABSIM Model Revisited. *River Research and Application* **23** (8):893-903.
8. PARASIEWICZ P. & J. D. Walker (2007): Comparing and testing results of three different micro and meso river habitat models. *River Research and Application* **23** (8): 904-923.

9. PARASIEWICZ P. (2007): Developing a reference habitat template and ecological management scenarios using the MesoHABSIM model. *River Research and Application* **23** (8): 924-932.
10. NADIM F., BAGTZOGLO A. C., BAUN S.A., WARNER G., JACOBSON R. A. & P. PARASIEWICZ (2007): Management of adverse impact of a public water supply well-field on the aquatic habitat of a stratified drift stream in eastern Connecticut, *Water Environment Research*. **79** (1) 43-56(14).
11. WERLE S. F., JOHNSON N.A., DUMONT E. R. & P. PARASIEWICZ (2007): Nei's ecological distance analysis: a novel use of Nei's modified genetic distance (DA). *Northeastern Naturalist* **14**(3):439-446.
12. PARASIEWICZ P. (2003): Upscaling: Integrating habitat model into river management. *Canadian Water Resources Journal*. Special Issue: State-of-the-Art in Habitat Modelling and Conservation of Flows **28** (2) p. 283-300.
13. PARASIEWICZ P. (2001): MesoHABSIM - a concept for application of instream flow models in river restoration planning. *Fisheries* **29** (9) p. 6-13.
14. PARASIEWICZ P. & M. J. DUNBAR (2001): Physical habitat modelling for fish - a developing approach - *Archiv für Hydrobiologie*. Suppl. (Large Rivers Vol. **12**), 135/2-4 p. 239-268. PARASIEWICZ P., HOFMANN H. C. & B. HÖGLINGER (1999): The DVP - Depth Velocity Position Bar - a multiplex instrument for physical habitat measurements in small riverine domains - *Regulated Rivers: Research and Management*, **15**, 77-86.
15. PARASIEWICZ P., HÖGLINGER B. & H. C. HOFMANN (1998): Der DVP - Stab. Depth Velocity Position Bar - Ein multifunktionales Gerät für morphometrische Aufnahmen an Fließgewässern - *Österreichs Fischerei*, Jahrgang 51, **10**, 232-239.
16. PARASIEWICZ P., SCHMUTZ S. & O. MOOG, (1998): The effects of managed hydropower peaking on the physical habitat, benthos and fish fauna in the Bregenzerach, a nival 6th order river in Austria, *Fisheries Management and Ecology*, 1998, **5**, 403-417.
17. SCHMUTZ S., MOOG O. & P. PARASIEWICZ (1997): Bewertung der ökologischen Funktionsfähigkeit in Ausleitungsstrecken - zooökologischer Ansatz.- *Wasserwirtschaft* **87** (7-8): 354-355.
18. PARASIEWICZ, P. (1996): Estimation of physical habitat characteristics using automation and geodesic-based sampling. *Regulated Rivers: Research & Management*, Vol. **12**, 575-583.
19. SCHMUTZ S., PARASIEWICZ P., KAUFMANN M., & G. PARTL, (1995): Bewertung der ökologischen Funktionsfähigkeit in Ausleitungsstrecken anhand von Fischzönosen. *Wasserbau-Mitteilungen der Technischen Hochschule Darmstadt*, Nr. 40:191-207.

Book Chapters

20. PARASIEWICZ, P., N. GILLESPIE, D. SHEPPARD & T. WALTER (2010) Strategy for Sustainable Management of the Upper Delaware River Basin. In: F. De Carlo and A. Bassano (ed). *Freshwater Ecosystems and Aquaculture Research*. Nova Science Publishers, Inc. pp. 249-264. ISBN: 978-1-60741-707-1.
21. PARASIEWICZ, P., J. NESTLER, N.L. POFF & A. GOODWIN. (2008) Virtual Reference River: A Model for Scientific Discovery and Reconciliation. 2008. In: M. S. Alonso, I. M. Rubio (ed) *Ecological Management: New Research*, Nova Science Publishers, Inc. pp. 189-206. ISBN: 978-1-60456-786-1
22. BORSÁNYI P. & PARASIEWICZ, P. (2004): Contrasting two individually developed, meso-scale based habitat evaluation systems. In *Fifth International Symposium on Ecohydraulics. Aquatic Habitats: Analysis & Restoration* (eds D.G.d. Jalón & P.V. Martínez), Vol. 2, pp. 845-850. IAHR, Madrid, Spain.
23. WILDMAN L, PARASIEWICZ P., KATOPODIS C. & U. DUMONT 2003. An illustrative handbook on nature-like fishways - summarized version. *American rivers*. Washington , DC. 21pp
24. JACOBSON, R. & PARASIEWICZ, P. (2002): Methods for Defining Instream Flow Standards: New developments in habitat modeling. In *proceedings of Connecticut Instream Flow Conference*. Berlin, CT March 23, 2001, p. 99 – 113. Yale University.
25. NESTLER, J , P. PARASIEWICZ, N. L. POFF, AND Z. BOWEN (2002). First principles based attributes for describing a template to develop the reference river. –“Environmental flows for river systems.” *International Working Conference on Assessment and Implementation*, incorporating the fourth international Ecohydraulic symposium, Cape Town, South Africa. On CD. March 3-8, 2002.
26. MODER K. & P. PARASIEWICZ (1999): Statistical comparison of physical habitat sampling strategies in streams. *Proceedings of workshop on correlated data modeling: The estimating function approach*, Trieste, Italy, October 22-23, 1999. On CD.
27. PARASIEWICZ P., EBERSTALLER J., WEISS S. & S. SCHMUTZ (1998): Conceptual guidance for nature-like bypass channels, In: M. Jungwirth, S. Schmutz, S. Weiss (eds), *Fish Migration and Fish Bypasses*, Fishery News Books, Blackwell Science, Oxford. pp. 348-362.
28. EBERSTALLER, HINTERHOFER M. & P. PARASIEWICZ (1998): The effectiveness of two nature-like bypass-channels in aiding the upstream migration of a rhithral fish assemblage, In: M. Jungwirth, S. Schmutz, S. Weiss (eds), *Fish Migration and Fish Bypasses*, Fishery News Books, Blackwell Science, Oxford. pp. 363-383.

29. PARASIEWICZ P. & S. SCHMUTZ (1997): Integritá ecologica e deflusso minimo vitale. In AGAC Deflusso minimo vitale. Methodi ed esperienze per un corretto utilizzo della risorsa idrica nel rispetto degli usi ambientali del corsi d'acqua. Convegno nazionale.p 159-163.
30. PARASIEWICZ P., S. SCHMUTZ & O. MOOG, (1996): The effects of managed hydropower peaking on the physical habitat, benthos and fish fauna in the Bregenzerach, a nival 6th order river in Austria. Proceedings of 2nd International Symposium on Habitat Hydraulics „Ecohydraulics 2000“ in Quebec, Juni 1996, p. A685-A698.
31. PARASIEWICZ P. & S. SCHMUTZ, (1999) Running water ecology research in Austria. Publication of Austrian Network for Environmental Research. Federal Ministry of Science and Transportation, Vienna, Austria, 80 pp.
32. PARASIEWICZ, P. & H. MADER (1991). Ökomorphometrische Flußvermessung und deren Auswertung. Proceedings of Informationstagung Mikroelektronik ME91 Vienna, August 1991, p. 243-249.
33. PARASIEWICZ P., ROGERS J. N., GORTAZAR J., VEZZA P., WIŚNIEWOLSKI W. & C. Comglio. (in review). The MesoHABSIM Simulation Model – development and applications. In Maddock I., Harby A., Kemp P., Wood P. Ecohydraulics: an integrated approach. John Wiley & Sons Ltd.

Scripts and text books

34. PARASIEWICZ P., ROGERS J.N. & J. LEGROS (2008). MesoHABSIM Field Procedures Manual. Northeast Instream Habitat Program, Mount Holyoke College, MA, USA. pp 49.

Abstracts

41. PARASIEWICZ P., WERLE S., JOHNSON L., ROGERS J. & LONGWORTH B. Northeast Instream Habitat Program. Annual Meeting of New England Association of Environmental Biologist, Lake George, NY, March 16-18, 2005.
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Resume

Dr. MARVIN RESNIKOFF is an international consultant on radioactive waste issues. A nuclear physicist and a graduate of the University of Michigan, Dr. Resnikoff has worked on radioactive issues since his first project at West Valley, New York in 1974. Throughout his career, he has assisted public interest groups and state and local governments across the US in order to identify and create solutions for radioactive waste storage and transportation issues. His recent research focus has been on the risk of transporting and storing radioactive waste and the health impact of radioactive waste from oil and uranium production. Dr. Resnikoff has also co-authored four books on radioactive issues, including *Deadly Defense* and *Danger Below*, both regarding contamination at DOE facilities. In June 2000, he was appointed by DOE secretary Bill Richardson to a Blue Ribbon Panel on Alternatives to Incineration. In August 2010, he was an invited panelist to President Obama's Blue Ribbon Commission on Nuclear Safety. In October 2011, he was an invited panelist at the annual conference of the Water Environment Federation on the subject of radioactivity in Marcellus shale wastes. In November 2013, he was an invited panelist before the Nuclear Waste Technical Review Board on the subject of the implication of high burnup nuclear fuel on decommissioning and transportation.

Since 1992, he has researched NORM issues, continuing to serve as an expert witness in personal injury cases in Mississippi, Louisiana and Texas on behalf of workers injured while cleaning radium-contaminated oil pipes. In 2009, he served as an expert witness for a Texas rancher whose land was contaminated by natural gas operations. He also served as an expert witness for public interest groups concerned with Marcellus shale rock cuttings going to the Chemung County, New York solid waste landfill. In 2012, he prepared a report for public interest groups on the NORM situation in Ohio. He is presently preparing a report on the impact of natural gas exploration and production in Pennsylvania.

He has conducted studies on the remediation and closure of the leaking Maxey Flats, Kentucky radioactive landfill for Maxey Flats Concerned Citizens, Inc. and of the leaking uranium basin on the NMI/Starmet site in Concord, Massachusetts under grants from the Environmental Protection Agency. He co-authored a study on the cost of remediating the former West Valley, New York reprocessing plant site. He also conducted studies of the Wayne and Maywood, New Jersey thorium Superfund sites and proposed low-level radioactive waste facilities at Martinsville (Illinois), Boyd County (Nebraska), Wake County (North Carolina), Ward Valley (California) and Hudspeth and Andrews Counties (Texas). He investigated phosphogypsum plants in Florida, Texas and Alberta, Canada, and served as an expert witness in a personal injury case involving a Texas phosphogypsum worker. He also served as an expert witness for CRPE, a public interest group, regarding the proposed expansion of the Buttonwillow, California NORM landfill. He was an expert witness for Earthjustice re. the licensing of an irradiation facility near the Honolulu airport in Hawaii. He is serving as an expert witness for Niagara County, New York, in a licensing hearing re. an application by CWM to expand its hazardous waste landfill.



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SUMMARY OF PROFESSIONAL EXPERIENCE:

Marvin Resnikoff is Senior Associate at Radioactive Waste Management Associates and is an international consultant on radioactive waste management issues. He is Principal Manager at Associates and is Project Director for dose reconstruction and risk assessment studies of radioactive waste facilities and transportation of radioactive materials. Dr. Resnikoff has concentrated exclusively on radioactive waste issues since 1974. He has authored or co-authored four books on radioactive waste issues.

He has conducted dose reconstruction studies of oil pipe cleaners in Mississippi and Louisiana, residents of Canon City, Colorado near a former uranium mill, residents of West Chicago, Illinois near a former thorium processing plant, and residents and former workers at a thorium processing facility in Maywood, New Jersey. He has also served as an expert witness for plaintiffs in Karnes County, Texas, Milan, New Mexico and Uravan, Colorado, who were exposed to radioactivity from uranium mining and milling activities. He is continuing to work on personal injury cases involving former workers and residents at the ITCO and other oil pipe cleaning yards in Louisiana and Texas. He also evaluated radiation exposures and risks in worker compensation cases involving former workers at Maywood Chemical Works thorium processing plant. He also served as an expert witness in a case involving the Port St. Lucie reactors and brain cancer developed by two children and in a case involving clean-up of an abandoned radioactive materials processing facility in Webster, Texas. He is presently working on several land contamination cases in Louisiana, Texas and New York. In June 2000, he was appointed to a Blue Ribbon Panel on Alternatives to Incineration by DOE Secretary Bill Richardson.

In addition to dose reconstruction and land contamination cases, Dr. Resnikoff also works on the risk of transporting radioactive material. Under a contract with the State of Utah, Dr. Resnikoff was a technical consultant to DEQ on the proposed dry cask storage facility for high-level waste at Skull Valley, Utah. He assisted the State on licensing proceedings before the Nuclear Regulatory Commission. He has also prepared studies on transportation risks and consequences for the State of Nevada and the Nevada counties: Clark, White Pine, Lander and Churchill. In addition, at hearings before state commissions and in federal court, he investigated proposed dry storage facilities at the Point Beach (WI), Prairie Island (MN), Palisades (MI), Maine Yankee, Connecticut Yankee and Vermont Yankee reactors. He is presently working for the State of Nevada on Yucca Mountain repository issues before the Nuclear Regulatory Commission (NRC). He is also serving as an expert witness for Earthjustice on a proposed NRC license for a food irradiator at the Honolulu, Hawaii airport.

He has conducted studies on the remediation and closure of the leaking Maxey Flats, Kentucky radioactive landfill for Maxey Flats Concerned Citizens, Inc. and of the leaking uranium basin on the NMI/Starmet site in Concord, Massachusetts under grants from the Environmental Protection Agency. He co-authored a study on the cost of remediating the former West Valley, New York reprocessing plant site. He also conducted studies of the Wayne and Maywood, New Jersey thorium Superfund sites and proposed low-level radioactive waste facilities at Martinsville (Illinois), Boyd County (Nebraska), Wake County (North Carolina), Ward Valley (California) and Hudspeth County (Texas). He investigated phosphogypsum plants in Florida, Texas and Alberta, Canada, and served as an expert witness in a personal injury case involving a Texas phosphogypsum worker. He also served as an expert witness for CRPE, a public interest groups, regarding the proposed expansion of the Buttonwillow, California NORM landfill. He is presently working for Earthjustice re. the licensing of an irradiation facility near the Honolulu airport in Hawaii.

In Canada, he conducted studies on behalf of the Coalition of Environmental Groups and Northwatch for hearings before the Ontario Environmental Assessment Board on issues involving radioactive waste in the nuclear fuel cycle and Elliot Lake tailings and the Interchurch Uranium Coalition in Environmental Impact Statement hearings before a Federal panel regarding the environmental impact of uranium mining in Northern Saskatchewan. He also worked on behalf of the Morningside Heights Consortium regarding radium-contaminated soil in Malvern and on behalf of Northwatch regarding decommissioning the Elliot Lake tailings area before a FEARO panel. He conducted a study for Concerned Citizens of Manitoba regarding transportation of irradiated fuel to a Canadian high-level waste repository. He is presently working for Greenpeace reviewing the environmental assessment for a proposed intermediate level waste repository under Lake Huron, and for the Provincial Womens Council of Ontario on radioactive waste management costs in a proceeding before the Ontario Energy Board.

In February 1976, assisted by four engineering students at State University of New York at Buffalo, Dr. Resnikoff authored a paper that, according to *Science*, changed the direction of power reactor decommissioning in the United States. His paper showed that power reactors could not be entombed for long enough periods to allow the radioactivity to decay to safe enough levels for unrestricted release. The presence of long-lived radionuclides meant that large volumes of decommissioning waste would still have to go to low-level or high-level waste disposal facilities. He assisted public interest groups on the decommissioning of the Yankee-Rowe, Diablo Canyon, Big Rock Point and Haddam Neck reactors.

He was formerly Research Director of the Radioactive Waste Campaign, a public interest organization conducting research and public education on the radioactive waste issue. His duties with the Campaign included directing the research program on low-level commercial and military waste and irradiated nuclear fuel transportation, writing articles, fact sheets and reports, formulating policy and networking with numerous environmental and public interest organizations and the media. He is author of the Campaign's book on "low-level" waste, *Living Without Landfills*, and co-author of the Campaign's book, *Deadly Defense, A Citizen Guide to Military Landfills*.

Between 1981 and 1983, Dr. Resnikoff was a Project Director at the Council on Economic Priorities, a New York-based non-profit research organization, where he authored the 390-page study, *The Next Nuclear Gamble, Transportation and Storage of Nuclear Waste*. The CEP study details the hazard of transporting irradiated nuclear fuel and outlines safer options.

Dr. Resnikoff is an international expert in nuclear waste management, and has testified often before State Legislatures and the U.S. Congress. He has extensively investigated the safety of the West Valley, New York and Barnwell, South Carolina nuclear fuel reprocessing facilities. His paper on reprocessing economics (Environment, July/August, 1975) was the first to show the marginal economics of recycling plutonium. He completed a more detailed study on the same subject for the Environmental Protection Agency, "Cost/Benefits of U/Pu Recycle," in 1983. His paper on decommissioning nuclear reactors (Environment, December, 1976) was the first to show that reactors would remain radioactive for several hundred thousand years. In March 2004, Dr. Resnikoff was project director and co-author of a study of groundwater contamination at DOE facilities, *Danger Lurks Below*.

Dr. Resnikoff has prepared reports on incineration of radioactive materials, transportation of irradiated fuel and plutonium, reprocessing, and management of low-level radioactive waste. He has served as an expert witness in state and federal court cases and agency proceedings. He has served as a consultant to the State of Kansas on low-level waste management, to the Town of Wayne, New Jersey, in reviewing the cleanup of a local thorium waste dump, to WARD on disposal of radium wastes in Vernon, New Jersey, to the Southwest Research and Information Center and New Mexico Attorney General on shipments of plutonium-contaminated waste to the WIPP facility in New Mexico and the State of Utah on nuclear fuel transport. He has served as a consultant to the New York Attorney General on air shipments of plutonium through New York's Kennedy Airport, and transport of irradiated fuel through New York City, and to the Illinois Attorney General on the expansion of the spent fuel pools at the Morris Operation and the Zion reactor, to the Idaho Attorney General on the transportation of irradiated submarine fuel to the INEL facility in Idaho and to the Alaska Attorney General on shipments of plutonium through Alaska. He was an invited speaker at the 1976 Canadian meeting of the American Nuclear Society to discuss the risk of transporting plutonium by air. As part of an international team of experts for the State of Lower Saxony, the Gorleben International Review, he reviewed the plans of the nuclear industry to locate a reprocessing and waste disposal operation at Gorleben, West Germany. He presented evidence at the Sizewell B Inquiry on behalf of the Town and Country Planning Association (England) on transporting nuclear fuel through London. In July and August 1989, he was an invited guest of Japanese public interest groups, Fishermen's Cooperatives and the Japanese Congress Against A- and H- Bombs (Gensuikin).

Between 1974 and 1981, he was a lecturer at Rachel Carson College, an undergraduate environmental studies division of the State University of New York at Buffalo, where he taught energy and environmental courses. The years 1975-1977 he also worked for the New York Public Interest Group (NYPIRG).

In 1973, Dr. Resnikoff was a Fulbright lecturer in particle physics at the Universidad de Chile in Santiago, Chile. From 1967 to 1973, he was an Assistant Professor of Physics at the State University of New York at Buffalo. He has written numerous papers in particle physics, under grants from the National Science Foundation. He is a 1965 graduate of the University of Michigan with a Doctor of Philosophy in Theoretical Physics, specializing in group theory and particle physics. Dr. Resnikoff is a member of the American Public Health Association and the Health Physics Society.

PROFESSIONAL EXPERIENCE:

April 1989 - present **Senior Associate**, Radioactive Waste Management Associates, management of consulting firm focused on radioactive waste issues, evaluation of nuclear transportation and military and commercial radioactive waste disposal facilities.

1978 - 1981; 1983 - April 1989 **Research Director**, Radioactive Waste Campaign, directed research program for Campaign, including research for all fact sheets and the two books, *Living Without Landfills*, and *Deadly Defense*. The fact sheets dealt with low-level radioactive waste landfills, incineration of radioactive waste, transportation of high-level waste and decommissioning of nuclear reactors. Responsible for fund-raising, budget preparation and project management.

1981 - 1983 **Project Director**, Council on Economic Priorities, directed project which produced the report *The Next Nuclear Gamble*, on transportation and storage of high-level waste.

1974 - 1981 **Instructor**, Rachel Carson College, State University of New York at Buffalo, taught classes on energy and the environment, and conducted research into the economics of recycling of plutonium from irradiated fuel under a grant from the Environmental Protection Agency.

1975 - 1976 **Project Coordinator**, SUNY at Buffalo, New York Public Interest Research Group, assisted students on research projects, including project on waste from decommissioning nuclear reactor.

1973 **Fulbright Fellowship** at the Universidad de Chile, conducting research in elementary particle physics.

1967 - 1972 **Assistant Professor of Physics**, SUNY at Buffalo, conducted research in elementary particle physics and taught a range of graduate and undergraduate physics courses.

1965 - 1967 **Research Associate**, Department of Physics, University of Maryland, conducted research into elementary particle physics.

PROFESSIONAL ORGANIZATIONS:

Health Physics Society
Water Environment Federation

SPECIAL SPEAKING ENGAGEMENTS:

- 1967 Invited Speaker, w/ O.W. Greenberg, Meeting of the American Physical Society, Washington, D.C., "Symmetric Quark Model of Baryon Resonances," Conf-670414—6.
- 1976 Invited Speaker, Meeting of the American Nuclear Society, Toronto, Canada, "Comparison of risk assessments of Pu released during transport."
- 1976 Statement before the Subcommittee on Energy and the Environment of the Interior Committee, House of Representatives, on recycling of plutonium.
- 1977 Statement before the Subcommittee on Government Operations, House of Representatives, on Nuclear Power Costs
- 1979 Chaired panel w/Dr. Karl Morgan and Dr. Alice Stewart, Gorleben International Review, on the health effects of radiation, Hanover, Germany.
- 2000 Invited day-long seminar presentation to the California Department of Health on the health effects of radiation
- 2002 Testimony before the Committee on Transportation & Infrastructure, United States House of Representatives, on transportation of nuclear materials.
- 2003 Presentation before the National Academy of Sciences Study Committee on Transportation of Radioactive Waste, Las Vegas, NV, "Baltimore Tunnel Fire: Implications for SNF Transportation Safety."
- 2006 Biglin, K. and Resnikoff, M, Emergency Response to a Nuclear Waste Shipment Accident, Inyo County, June 15, 2006, paper presented at ESRI Annual Conference, August 2006.
- 2008 Invited Speaker, Meeting of the American Nuclear Society, Anaheim, CA, "State of Nevada Recommendations for Yucca Mountain Transportation Safety and Security."
- 2008 Presentation at Waste Management 2008, Phoenix, AZ, "Fugitive Dust Emissions from Uranium Haul Roads."
- 2008 Presentation at Waste Management 2008, Phoenix, AZ, "State of Nevada Perspective on the US DOE Yucca Mountain Transportation Program."

Books and Articles

Resnikoff, M, "Expensive Enrichment," *Environment*, July/August 1975, pp. 28–35.

Harwood, S *et al*, "The Cost of Turning It Off," *Environment*, December 1976, pp.17-26.

M. Resnikoff, "Environmental Perspective." Chapter 7 in "The Politics of Nuclear Waste," edited by William Colglazier, Pergamon Press, 1982

M. Resnikoff, *et al*, "The Next Nuclear Gamble, Transportation and Storage of Nuclear Waste," Council on Economic Priorities, 1983.

M. Resnikoff, "Shipping Flasks in Severe Rail Accidents," Chapter 18 in "The Urban Transportation of Irradiated Fuel," edited by John Surrey, Macmillan Press, London, 1984.

M. Resnikoff, "Living Without Landfills," Radioactive Waste Campaign, 1988.

M. Resnikoff, *et al*, "Deadly Defense, A Citizen Guide to Military Landfills," Radioactive Waste Campaign, 1989.

M. Marvin Resnikoff, "The Generation Time Bomb: Radioactive and Chemical Wastes." Chapter in "Hidden Dangers: Environmental Consequences of Preparing for War," edited by Anne Ehrlich and John Birks, Sierra Club Books, San Francisco, 1990.

I. Fairlie and M. Resnikoff, "No Dose Too Low," *The Bulletin of Atomic Scientists*, Nov/Dec 1997.

M. Resnikoff, "Danger Lurks Below," Alliance for Nuclear Accountability, 2004.

M Resnikoff, "Radon in Natural Gas from Marcellus Shale," *Ethics in Biology, Engineering & Medicine*, Vol. 2, Issue 4, 2011, pp. 317- 331.

Matthew Kelso

Manager of Data and Technology
FracTracker Alliance
112 Sherman Street
Pittsburgh, PA 15209

Education

B.A. in Anthropology from Humboldt State University in Arcata, CA (2003, cum laude)
Includes one-year study abroad in Xi'an, China at Xibei Daxue.

Summary of Experience

FracTracker Alliance – Manager of Data and Technology (2012 – current)

In this position, Mr. Kelso performs data analysis and print and online Geographic Information Systems (GIS) for the FracTracker Alliance, and oversees standards of these functions within the organization. Software frequently used includes ArcGIS Desktop, ArcGIS Online, Microsoft Word and Microsoft Excel.

University of Pittsburgh Graduate School of Public Health, Center for Healthy Environments and Communities – Data Manager (2010 to 2012)

FracTracker was a project of the Center for Healthy Environments and Communities through 2012, before becoming its own 501 (c)(3) nonprofit organization. Mr. Kelso performed data analysis and print and online GIS functions in this capacity.

KEYS Service Corps – AmeriCorps Member (2009 to 2010)

Mr. Kelso was an AmeriCorps member, chiefly serving as a classroom assistant at the Propel Montour charter school in Kennedy Township, PA

Various Cultural Resources Management Companies – Archaeologist (2004 to 2008)

Mr. Kelso worked as an archaeologist on numerous projects and for a variety of companies. Duties included excavation and survey, artifact analysis, artifact curation, and report writing. Most projects were in New Mexico, with additional projects in Wyoming, Arizona, and Virginia, and typically lasted between two and eight weeks.

Peer Reviewed Publications

Malone, Samantha, Matthew Kelso, Ted Auch, Karen Edelstein, Kyle Ferrar, and Kirk Jalbert. (2015). "Inconsistencies with Data from Unconventional Gas and Oil Basins," *Journal of Environment Science and Health, Part A*, 50(5):489-498.

Samantha Malone, Matthew Kelso, Drew Michanowicz, Kyle Ferrar, Kyra Naumoff Shields and Jill Kriesky. ENVIRONMENTAL REVIEWS AND CASE STUDIES: FracTracker Survey and Case Studies: Application for Participatory GIS in Unconventional Natural Gas Development. *Environmental Practice* 14:1–10 (2012). doi:10.1017/S1466046612000324.

White Papers

Kelso, Matthew (2018). "A Hazy Future: Pennsylvania's Energy Landscape in 2045", FracTracker Alliance, white paper for the Heinz Endowments. <https://www.fractracker.org/a5ej20sjfwe/wp-content/uploads/2018/01/AHazyFuture-FracTracker-2018.pdf>

Web Published Projects

Kelso, Matthew. 2018. "High Impact Areas and Donut Holes - Variability in PA's Unconventional O&G Industry." FracTracker Alliance.

<http://ft.maps.arcgis.com/apps/MapJournal/index.html?appid=4703763deb4041f3bf11f889338a1951>

The Oil and Gas Threat Map. 2016-2017. Earthworks, FracTracker Alliance, and Clean Air Task Force.

<http://oilandgasthreatmap.com/>

Kelso, Matthew. 2017. "What is the Life Expectancy of the Marcellus Shale?" FracTracker Alliance.

<https://www.fractracker.org/2017/10/life-expectancy-marcellus-shale/>

Jalbert, Kirk and Matthew Kelso. 2017. "Susquehanna River Basin Impacts Project," FracTracker Alliance.

<https://www.fractracker.org/projects/susquehanna-river-basin-impacts-project/>

Kelso, Matthew and Kirk Jalbert. 2016. "Allegheny County Lease Mapping Project." FracTracker Alliance.

<https://www.fractracker.org/projects/lease-mapping/>

Invited Talks

"Information Forum – Injection Wells" September 21, 2017, Plum Borough, Allegheny County, Pennsylvania. <https://www.youtube.com/watch?v=wX9frQvPhSw>

Tom Myers, Ph.D.

Consultant, Hydrology and Water Resources
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Curriculum Vitae

Objective: To provide diverse research and consulting services to nonprofit, government, legal and industry clients focusing on hydrogeology specializing in mine dewatering, contaminant transport, natural gas development, groundwater modeling, NEPA analysis, federal and state regulatory review, and fluvial morphology.

Education

Years	Degree	University
1992-96	Ph.D. Hydrology/Hydrogeology	University of Nevada, Reno Dissertation: Stochastic Structure of Rangeland Streams
1990-92		University of Arizona, Tucson AZ Classes in pursuit of Ph.D. in Hydrology.
1988-90	M.S. Hydrology/Hydrogeology	University of Nevada, Reno Thesis: Stream Morphology, Stability and Habitat in Northern Nevada
1981-83		University of Colorado, Denver, CO Graduate level water resources engineering classes.
1977-81	B.S., Civil Engineering	University of Colorado, Boulder, CO

Professional Experience

Years	Position	Duties
1993-Pr.	Hydrologic Consultant	Completion of hydrogeology studies and testimony focusing on mine dewatering, groundwater modeling, natural gas development, contaminant transport, NEPA review, and water rights for nonprofit groups and government agencies.
1999-2004	Great Basin Mine Watch, Exec Director	Responsible for reviewing and commenting on mining projects with a focus on groundwater and surface water resources, preparing appeals and litigation, organizational development and personnel management.
1992-1997	Univ of NV, Reno, Res. Assoc.	Research on riparian area and watershed management including stream morphology, aquatic habitat, cattle grazing and low-flow and flood hydrology.
1990-1992	U of AZ, Res. and Teach. Assistant	Research on rainfall/runoff processes and climate models. Taught lab sections for sophomore level "Principles of Hydrology". Received 1992 Outstanding Graduate Teaching Assistant Award in the College of Engineering
1988-1990	U of NV, Reno Res. Asst	Research on aquatic habitat, stream morphology and livestock management.
1983-1988	US Bureau of Reclamation Hydraulic Eng.	Performed hydrology planning studies on topics including floodplains, water supply, flood control, salt balance, irrigation efficiencies, sediment transport, rainfall-runoff modeling and groundwater balances.

Peer-Reviewed Publications

- Myers, T., 2016. A modeling approach to siting mine facilities in northern Minnesota USA. *J Hydrology* 533: 277-290. Doi: 10.1016/j.jhydrol.2015.12.020
- Myers, T., 2013. Remediation scenarios for selenium contamination, Blackfoot Watershed, southeast Idaho, USA. *Hydrogeology J.* DOI 10.1007/s10040-013-0953-8
- Myers, T., 2013. Reservoir loss rates from Lake Powell and their impact on management of the Colorado River. *Journal of the American Water Resources Association.* DOI: 10.1111/jawr.12081.
- Myers, T., 2012. Potential contaminant pathways from hydraulically fractured shale to aquifers. *Ground Water* 50(6): 872-882. doi: 10.1111/j.1745-6584.2012.00933.x
- Myers, T., 2009. Groundwater management and coal-bed methane development in the Powder River Basin of Montana. *J Hydrology* 368:178-193.
- Myers, T.J. and S. Swanson, 1997. Variation of pool properties with stream type and ungulate damage in central Nevada, USA. *Journal of Hydrology* 201-62-81
- Myers, T.J. and S. Swanson, 1997. Precision of channel width and pool area measurements. *Journal of the American Water Resources Association* 33:647-659.
- Myers, T.J. and S. Swanson, 1997. Stochastic modeling of pool-to-pool structure in small Nevada rangeland streams. *Water Resources Research* 33(4):877-889.
- Myers, T.J. and S. Swanson, 1997. Stochastic modeling of transect-to-transect properties of Great Basin rangeland streams. *Water Resources Research* 33(4):853-864.
- Myers, T.J. and S. Swanson, 1996. Long-term aquatic habitat restoration: Mahogany Creek, NV as a case study. *Water Resources Bulletin* 32:241-252
- Myers, T.J. and S. Swanson, 1996. Temporal and geomorphic variations of stream stability and morphology: Mahogany Creek, NV. *Water Resources Bulletin* 32:253-265.
- Myers, T.J. and S. Swanson, 1996. Stream morphologic impact of and recovery from major flooding in north-central Nevada. *Physical Geography* 17:431-445.
- Myers, T.J. and S. Swanson, 1995. Impact of deferred rotation grazing on stream characteristics in Central Nevada: A case study. *North American Journal of Fisheries Management* 15:428-439.
- Myers, T.J. and S. Swanson, 1992. Variation of stream stability with stream type and livestock bank damage in northern Nevada. *Water Resources Bulletin* 28:743-754.
- Myers, T.J. and S. Swanson, 1992. Aquatic habitat condition index, stream type, and livestock bank damage in northern Nevada. *Water Resources Bulletin* 27:667-677.
- Zonge, K.L., S. Swanson, and T. Myers, 1996. Drought year changes in streambank profiles on incised streams in the Sierra Nevada Mountains. *Geomorphology* 15:47-56.

Representative Projects

Expert Witnessing

- Myers, T., 2017. Expert Report/Testimony. In the Matter of Applications 53987 through 53992, inclusive, and 54003 through 54021, inclusive, filed to appropriate the underground waters of Spring Valley, Cave Valley, Dry Lake Valley, and Delamar Valley (Hydrographic Basins 184, 180, 181, and 182), Lincoln County and White Pine County, Nevada. Nevada Division of Water Resources. Hearing September 25-October 6, 2017.
- Myers, T., 2017. Expert Testimony. In the Matter of Application for Beneficial Water Use Permit No 76LJ-30102978 by Montana Artesian Water Company. Montana Department of Natural Resources. Hearing in Kalispell MT, Sept 19 -22, 2017
- Myers, T., 2016. Expert Report/Testimony: In Re State Land Office Agriculture Lease No. GT-0447, Brininstool XL Ranch, LLC v. Devon Energy Production Company, Contest No. 15-006. Santa Fe, NM
- Myers, T., 2014. Expert Report/Deposition: In the Matter of California Department of Parks and Recreation v. Newmont Mining Corporation, et al. Prepared for the California Department of Justice, February 2014
- Myers, T., 2012. Expert Report/ Testimony at Aquifer Protection Permit Appeal Hearing, Rosemont Mine. Phoenix AZ, August and September, 2012.
- Myers, T., 2011. Deposition: Northeast Natural Energy, LLC and Enroute Properties, LLC v. The City of Morgantown, WV, Civil Action No. 11-C-411, Circuit Couty of Monongalia County, WV.
- Myers, T., 2011 and earlier. Expert Reports (some listed below) and Testimony. Water Rights Protest Hearings before the Nevada State Engineer, Southern Nevada Water Authority Applications for (1) Spring Valley, (2) Cave, Dry Lake, Delamar Valley, (3) Three Lakes/Tikapoo Valley.
- Myers, T. 2006. Affidavit. Diamond Cross Properties, LLC, Northern Plains Resource Council, Tounge River Water Users Assoc v. State of Montana, Dept of Env Quality, Board of Oil and Gas Conservation, Dept of Natural Resources and Conservation, and Pinnacle Gas Resources, Inc, and Fidelity Exploration and Production Co., MT 22nd Judicial District Court Big Horn County, Civil Cause No. DV 05-70.
- Myers, T. 2006. Expert Report/Deposition. Cole et al. v J.M. Huber Corp, and William DeLapp. U.S. Federal District Court Case No. 06-CV-0142J.
- Myers, T., 2005. Nevada State Environmental Commission Appeal Hearing, Water Pollution Control Permit Renewal NEV0087001, Big Springs Mine. Prepared for Great Basin Mine Watch, Reno NV.
- Myers, T. 2004. Nevada State Environmental Commission Appeal Hearing, Water Pollution Control Permit, Lone Tree Mine, Gold Quarry Mine. Prepared for Great Basin Mine Watch, Reno NV.

Reports, Reviews and Activities

- Myers, T. 2017. Technical Memorandum: Impact of Developing Dixie Meadows Geothermal Utilization Project on Springs and Surface Water. Prepared for Center for Biological Diversity. July 24, 2017.
- Myers, T. 2017. Technical Memorandum: Review of Bishop Tube Superfund Site and an Assessment of the Site's Proposed Residential Development. Prepared for Delaware Riverkeeper Network. March 20, 2017.
- Myers, T. 2017. Technical Memorandum: Review of Dinwoody Enhanced and Production Covers. Prepared for EarthWorks and Crow Creek Conservation Alliance. December 5, 2017.
- Myers, T. 2017. Technical Memorandum: Review of Final Responsiveness Summary for Aquifer Project Permit Application, Gunnison Copper Project. Prepared for Amerind Foundation, Dragoon, AZ
- Myers, T. 2016. Effect of Open-Pit Mine Dewatering and Cessation on Semi-Arid River Flows. Prepared for the Progressive Leadership Alliance of Nevada.
- Myers, T. 2016. International Technology Exchange, Mongolia. Working with Mongolian and Russian NGOs regarding Mining and Energy Development.
- Myers, T. 2016. Technical Memorandum: Completeness Review of the Mine Operating Permit Application, Black Butte Copper Project, Meagher County MT. Prepared for Montana Chapter, Trout Unlimited.
- Myers, T. 2016. Technical Memorandum. Response to the US Fish and Wildlife Service Hydrologic Reasoning in its Response to the Center for Biological Diversity's Notice of Intent to Sue to Reopen Consultation on Various Memorandums of Agreement Regarding the Muddy River Springs. Prepared for the Center for Biological Diversity, September 10, 2016.
- Myers, T., 2016. Technical Memorandum, Review of the Draft Environmental Impact Statement, Copper Flat, Sierra County, NM. Prepared for Ladder Ranch, Inc. and New Mexico Environmental Law Center
- Myers, T., 2016. Technical Memorandum, Review of the Draft Supplemental Environmental Impact Statement for the Donlin Gold Project. Prepared for the Northern Alaska Environmental Center.
- Myers, T., 2016. Technical Memorandum, Review of the Draft Supplemental Environmental Impact Statement for the Rock Creek Project, Sanders County, MT. Prepared for the Rock Creek Alliance.
- Myers, T. 2016. Technical Memorandum, Twin Metals Mine and the Peter Mitchell Pit, Simulation of the Development of the Peter Mitchell Pit and Its Effects on the Proposed Twin Metals Tailings Impoundment. Prepared for Northeastern Minnesotans for Wilderness.
- Myers, T., 2015. Conceptual Flow and Transport Model, Uranium Plume near the Homestake Millsite, Milan, NM. Prepared for Bluewater Valley Downstream Alliance. Marcy 16, 2015.
- Myers, T., 2015. Hydrogeology of the Humboldt River Basin, Impacts of Open-pit Mine Dewatering and Pit Lake Formation. Prepared for the Progressive Leadership Alliance of Nevada and Great Basin Resource Watch, Revised June 2015.

- Myers, T., 2015. Letter Report: Comments on the Draft Supplemental Environmental Impact Review for the Panoche Valley Solar Project. Prepared for Adams Broadwell Joseph and Cardozo, San Francisco CA
- Myers, T., 2015. Technical Memorandum: Review of the Final Environmental Impact Statement, NorthMet Mining Project and Land Exchange. Prepared for Minnesota Center for Environmental Advocacy.
- Myers, T., 2015. Technical Memorandum – Review of Assessment of the Potential Impacts of Hydraulic Fracturing for Oil and Gas on Drinking Water Resources. Prepared for Delaware Riverkeeper Network. August 24, 2015.
- Myers, T., 2015. Technical Memorandum – Review of Finger Lakes LPG Storage, LLC, Proposed LPG Storage Facility. Prepared for Earthjustice, New York. January 13, 2015
- Myers, T., 2015. Technical Memorandum – Review of Pennsylvania Governor’s Executive Order Concerning Hydraulic Fracturing in Pennsylvania State Parks and Forest. Prepared for Delaware River Keeper, January 9, 2015.
- Myers, T., 2015. Technical Memorandum – Review of Water Supply Assessment, Village at Squaw Valley. Prepared for Sierra Watch, July 13, 2015.
- Myers, T., 2014. Groundwater Flow and Transport Modeling, NorthMet Mine and Plant Site. Prepared for the Minnesota Center for Environmental Advocacy.
- Myers, T., 2014. Letter Report: Comments on the Environmental Assessment for the Proposed Photovoltaic Array Proposed for Ft Irwin CA. Prepared for Adams Broadwell Joseph and Cardozo, San Francisco CA, October 13, 2014
- Myers, T., 2014. Review of the Water Quality Modeling, NorthMet Mine and Plant Site, Minnesota. Prepared for Minnesota Center for Environmental Advocacy.
- Myers, T. 2014. Technical Memorandum: Review of Performance Standards, Center for Sustainable Shale Development. Prepared for Delaware River Keeper. May 8, 2014.
- Myers, T. 2014. Technical Memorandum: Review of the Hydrogeologic Aspects of the Draft Environmental Impact Statement, Haile Gold Mine, Lancaster County, South Carolina. Prepared for Southern Environmental Law Center, May 8 2014.
- Myers, T., 2014. Technical Memorandum: Review of the Supplemental Draft Environmental Impact Statement, NorthMet Mining Project and Land Exchange. Prepared for Minnesota Center for Environmental Advocacy. March 10, 2014
- Myers, T. 2014. Technical Memorandum: Twin Metals and the Boundary Waters Canoe Area Wilderness, Risk Assessment for Underground Metals Mining. Prepared for Northeastern Minnesotans for Wilderness. August 8 2014
- Myers, T. 2012-3. Participation in EPA Potential Impacts of Hydraulic Fracturing on Drinking Water Resources Study. US Environmental Protection Agency, Washington DC.
- Myers, T., 2013. DRAFT: Chapter 5.1: Water Quality. Initiative for Responsible Mining.
- Myers, T., 2013. DRAFT: Chapter 5.2: Water Quantity. Initiative for Responsible Mining.

- Myers, T., 2013. Technical Memorandum: Comments on Encana Oil and Gas Inc.'s Application for the Madison Aquifer to be Exempt Wyoming Oil and Gas Conservation Commission Docket No. 3-2013. Prepared for Natural Resources Defense Council, Powder River Basin Council. June 12, 2013.
- Myers, T. 2013. Technical Memorandum: Impact Analysis: Wishbone Hill Water Right Application. Prepared for Trustees for Alaska
- Myers, T, 2013. Technical Memorandum: Review of Montanore Mine Dewatering Instream Flow Methodology. Prepared for Save our Cabinets, Earthworks. March 26, 2013
- Myers, T. 2012. Technical Memorandum: Chuitna Coal Mine Project, Review of Arcadis DRAFT Hydrogeologic Conceptual Site Model Update and Associated Documents. Prepared for Cook Inletkeeper. May 11, 2012.
- Myers, T., 2012. Technical Memorandum, Review of DRAFT: Investigation of Ground Water Contamination near Pavillion Wyoming Prepared by the Environmental Protection Agency, Ada OK. April 19, 2012.
- Myers, T., 2012. Participation in: Keystone Center Independent Science Panel, Pebble Mine. Anchorage AK, October 1-5, 2012.
- Myers, T., 2012. Technical Memorandum, Review and Analysis, Revised Draft, Supplemental Generic Environmental Impact Statement on the Oil, Gas and Solution Mining Regulatory Program, Well Permit Issuance for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs. Prepared for Natural Resources Defense Council.
- Myers, T., 2012. Technical Memorandum, Review of the Special Use Permit PP2011-035-Camilletti 21-10, Groundwater Monitoring Requirements. Prepared for Routt County Board of Commissioners and the Routt County Planning Department. June 19, 2012.
- Myers, T., 2012. Drawdown at U.S. Forest Service Selected Monitoring Points, Myers Rosemont Groundwater Model Report. Prepared for Pima County, AZ. March 22, 2012.
- Myers, T. 2011. Baseflow Conditions in the Chuitna River and Watersheds 2002, 2003, and 2004 and the Suitability of the Area for Surface Coal Mining. January 14, 2011.
- Myers, T., 2011. Hydrogeology of Cave, Dry Lake and Delamar Valleys, Impacts of pumping underground water right applications #53987 through 53092. Presented to the Office of the Nevada State Engineer On behalf of Great Basin Water Network.
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Special Coursework

Years	Course	Sponsor
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2011	Hydraulic Fracturing of the Marcellus Shale	National Groundwater Association
2008	Fractured Rock Analysis	MidWest Geoscience
2005	Groundwater Sampling Field Course	Nielson Environmental Field School
2004	Environmental Forensics	National Groundwater Association
2004 and -5	Groundwater and Environmental Law	National Groundwater Association

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EDUCATION

B.S. 1972, University of California, Santa Barbara
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