

## RONALD L. PARKER

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### Present Position

2001 - Present **Assistant Professor of Geology**, Department of Geosciences, Earlham College, Richmond, Indiana. Teaching areas: ground water, environmental science, environmental geochemistry, sedimentology, physical geology and historical geology. I teach introductory undergraduate courses in Environmental Geoscience (GEOS 111), Physical Geology (GEOS 211) Environmental Science and Sustainability (ENPR 111) and Historical Geology (GEOS 314) and upper level undergraduate courses in Mineralogy (GEOS 350), Hydrogeology (GEOS 362), Sedimentology and Stratigraphy (GEOS 355) and Environmental Geochemistry (GEOS 352). I also teach the geology student seminar course (GEOS 480) during the fall semester which have focused on the Future of Global Energy Use and Tectonic Processes. This past fall I taught a freshman Earlham Seminar entitled "Our Nuclear Legacy" concerned with the evolution nuclear technology.

In addition to teaching, I have devised and directed a number of senior level independent study investigations (GEOS 485) over the last seven Spring terms. I am particularly interested in helping students become proficient at designing and prosecuting research investigations and at articulating the results at a professional level suitable for presentation at national conferences such as the Geological Society of America (GSA). Recent student independent studies have used GIS and GPS techniques to map the temporal distribution of nitrates in the Richmond drinking water supply watershed; revealed a large heavy metals pulse in lacustrine sediments near an industrial part of Richmond, Indiana; digitized Potential Sources of Contamination (PSOCs) within Wellhead Protection Areas (WHPAs) for the Richmond Public Community Water Supply Sources, traced the source of excess nitrate resulting in pond eutrophication, determined the soil mineral properties of soils collected near South Texas open-pit uranium mines; and used GIS to map the population dynamics of birds in a small region of southern Indiana.

2006 - 2007 **Convener**, Science Division, Earlham College, Richmond, Indiana  
2004 - 2007 **Convener**, Department of Geosciences, Earlham College, Richmond, Indiana  
2002 - Present **Academic advisor** for 21 students  
2004 - Present **Indiana Licensed Professional Geologist** (# LPG 2139)

### Education

Ph.D. Student Geology, Texas A & M University, College of Geosciences, Department of Geology and Geophysics. Continuing work in pursuit of a doctoral degree in Environmental Geochemistry. Dissertation research concentrates on applying GIS to model spatial and temporal variability of geochemical data with special reference to the mobility, bioavailability and toxicity of As, Mo, Se, V and U associated with South Texas uranium mines. Dissertation completion still in process. G.P.A. of 3.903.

M.S. Geology, University of Vermont, 1986, Master's Thesis: Lithofacies, Paleoenvironments and Tectonic History of the Deschambault Limestone, Southeastern, Quebec. 175 pp.

B.A. Geology, Colgate University, 1982, Bachelor's Thesis: The Ogdensburg Dolostone of the Ottawa-St. Lawrence Lowlands: Reconstruction of Paleoenvironments from Sedimentologic Evidence. 44 pp.

### Professional Experience

1995-2001 **Graduate Teaching Assistant / Graduate Research Assistant**, Texas A & M University, College Station, Texas: Conducted research on sorption of Polycyclic Aromatic Hydrocarbons to mineral surfaces; developed a reaction vessel for studying sorption of molybdate to synthetic goethite in the absence of CO<sub>2</sub>; collected samples of environmental media (soil, sediment and water), processed them by microwave digestion and analyzed for oxyanions (As, Mo, Se, V and U) on an ICP-MS. Taught and graded undergraduate laboratory classes in Mineralogy (Fall '95, '97, '98, '99), Historical Geology (Spring '96, '97), Introductory Geology (Summer '98) and Introduction to Petrology (Spring '99). Prepared detailed lecture presentations; administered and graded laboratory exercises, quizzes and tests. Led field trips to the Eocene section at the Summerville Spillway and to the Syenite Ring Dike complex at Magnet Cove, Arkansas.

1994-1995 **Principal Geologist**, Lone Rock Geoscience, Burlington, Vermont: Initiated sole proprietorship environmental consulting firm specializing in due diligence environmental site assessments; underground storage tank closure assessments; monitoring well installation; sampling and analyses of air, soil, sediment, ground and surface water; interpretation of analytical results; soil and ground water contamination remediation; public and private water supply development; delineation of wellhead protection areas; preparation of drinking water source protection plans and waiver applications for Phase II/V testing requirements; waste water capacity demonstration; hydrogeological studies; lined landfill permitting; landfill closure monitoring and mapping of surficial and bedrock geology. Clients include engineering firms, financial institutions, insurance companies, attorneys, real estate developers, water utilities, environmental consulting firms, manufacturing facilities, municipalities, public school districts and private concerns. Representative projects include: mapping bedrock structure in an area proposed for an aggregate production quarry; providing expert witness consulting for a criminal court proceeding on behalf of a worker injured at a hazardous waste site; excavating 200 cubic yards of fuel oil contaminated soil and amending with bark mulch and manure for passive microbially induced degradation; preparing the summary report for a new lined landfill in Randolph, Vermont; installing a pumping system to remove 3½ feet of free-product gasoline from the water table; characterizing the impacts of chlorinated solvents derived from a former town dump upon drinking water wells at a new residential development; determining infectious disease impacts to soil and ground water at a site characterized by the surface disposal of thousands of animal carcasses; preparation of a risk assessment determining potential impacts of a trichloroethylene plume upon a new commercial development and preparation of an environmental site assessment for the U.S. Department of Housing and Urban Development.

- 1993-1994 **Hydrogeologist II / Regional Manager**, Ground Water of Vermont, Burlington, Vermont: (now ECS Marin) Started-up a satellite office for Ground Water, Inc., a small New England environmental consulting firm (now Marin Environmental). Engaged in all activities related to initiating the firm including identifying office space, setting up vendor accounts, specifying computer and office equipment, hiring employees, establishing client base, marketing and developing new clients, writing proposals and cost estimates and conducting project work. Involved with advertising, project billing, site assessments, contamination investigations and clean-up actions and water supply development and protection. Most work focused on technical and administrative oversight of several projects involving contaminated soil, sediment, air, ground and surface water. Representative projects included: Preparation of Phase I and Phase II environmental site assessments for several local banks and the Federal Deposit Insurance Corporation (FDIC); sampling and chemical characterization at a manufacturing facility with ground water impacted by hexavalent chromium, nickel and trichloroethylene; geochemical differentiation of an older diesel plume from a younger gasoline plume at a hazardous waste site; closure of underground storage tanks by removal and in-place cleaning; and, characterization of soil and ground water impacts at a site impacted by polycyclic aromatic hydrocarbons (PAHs) and pentachlorophenol from use and storage of wood-preserving chemicals.
- 1991-1993 **Hydrogeologist**, Wagner, Heindel and Noyes, Inc., Burlington, Vermont: (now Heindel and Noyes, Inc.) Involved with all aspects of geologic consulting, especially the delineation and cleanup of contaminated soil, surface and ground water. Representative projects included: conducting a Remedial Investigation / Feasibility Study (RI/FS) at an active railroad yard contaminated with diesel, solvents, metals and PAHs; determining soil, stream sediment and indoor air exposures of individuals living on a former coal gasification site; evaluating potential contamination at a large salvage yard; conducting detailed Phase II Environmental Site Assessment at a former U.S. Department of Defense property; geochemical reaction modeling of simulated lined landfill rupture using PRODEFA2 and MINTEQA2; supervising installation of monitoring wells and suction lysimeters at newly constructed lined landfill.
- 1990-1991 **Senior Geologist**, Groundwater Technology, Inc., Williston, Vermont: (now Fluor-Daniel GTI) Responsible for technical and administrative oversight of multiple ground water contaminant investigations and remedial operations concentrating on petroleum hydrocarbons. Duties included characterization of site geology, hydrogeology and contaminant distribution; design and implementation of soil and ground water remediation systems; management of remedial efforts and progressing sites toward "closure". Representative projects included: conducting a "passive" (PETREX®) soil gas survey to delineate a trichloroethylene plume in ground water near a manufacturing facility and installing an array of monitoring wells on the basis of the results; managing the operation of multi-component ground water and soil remediation systems at several gas stations including pump-and-treat, soil vapor extraction and in-situ biodegradation technologies; set up treatment for fuel contaminated water at a large storage terminal and numerous Phase I and Phase II Environmental Site Assessment's for local banks.
- 1988-1990 **Project Geologist**, Thermo Water Management, TWM Northeast, Inc., Williston, Vermont: Involved with geologic consulting focusing upon wastewater disposal capacity demonstration. Conducted several detailed hydrogeological studies of proposed in-ground, mound and spray irrigation wastewater disposal sites. This work involved whole soil hydraulic conductivity (slug and trench) testing, seasonal high water table, ground water mounding and effluent capacity compliance demonstration. Also conducted a slope-stability study and became involved with ground water contamination work including several gas station remediation projects and an RI-FS investigation of a 75 acre facility formerly used for the manufacture of inorganic pigments.
- 1986-1988 **Hydrogeologist**, Vermont Department of Health, Division of Environmental Health, Drinking Water Section, Burlington, Vermont: (now Division of Health Protection, Environmental Health and Toxicology Section) Responsible for protecting public community water supply sources from adverse quality and quantity impacts. Reviewed proposed and existing land-use activities that posed a potential contamination threat to wellhead protection areas (WHPAs). Engaged in review of data concerning water quality, land-use, bedrock and surficial geology, hydrogeology, soils, aquifer characteristics and contaminant transport mechanisms in order to assist municipalities, permitting authorities and private citizens with ground water related problems. Assisted in the development of the WHPA program at the VDH. Acted as research advisor to three university students conducting investigations in: bedrock as a source of drinking water radon; the effect of relict salt upon water supplies developed in glaciomarine sediments; and the development of a model WHPA ordinance for a municipality.
- 1982-1986 **Teaching Assistant**, University of Vermont, Burlington, Vermont: Prepared and administered lectures and field exercises for 7 laboratory sections in Introductory Geology and 1 section in Sedimentary Petrology. Graded laboratory reports, quizzes and class examinations for approximately 120 students.
- 1982 **Site Stratigrapher**, Archaeological Resource Contracting (UVM), Highgate Falls, Vermont: Worked as a stratigrapher for an archaeological survey along a 3 mile reach of the Missisquoi River in Franklin County, Vermont. Excavated several 200 meter trenches in the river floodplain and characterized the exposed alluvial stratigraphy relative to Upper Woodland sites on remnant terraces. Discovered fossil logs in buried point bar sands that radiocarbon dated between 8100 and 5700 years B.P. On the basis of fossil logs was able to construct rates of lateral migration and downcutting of a large meander bend.
- 1981 **Field Assistant**, Geo-Search Seismic Surveys, Inc. Lubbock, Texas: Worked with a geophysical field crew contracting Vibroseis seismic reflection profiles in Texas, Oklahoma, Kansas and Colorado. Performed manual physical labor, surveying and field mapping.
- 1980-1982 **Teaching Assistant**, Colgate University Geology Department, Hamilton, New York: Assisted in laboratory instruction for two classes of Stratigraphy and Sedimentation (taught by Dr. Bruce Selleck) and one class of Geology of Continental Margin Resources (taught by Dr. Paul Pinet). Tutored and graded laboratory reports for approximately 85 students.

### Teaching Experience

<b>Earlham College</b>	Physical Geology Historical Geology Environmental Science and Sustainability Geochemistry Earlham Seminar: Our Nuclear Legacy Seminar on Current Topics in Geology Sedimentology Natural Geologic Laboratory of the American West Geology of a Mantle Hot Spot: Hawaiian Volcanoes Hydrogeology Introduction to GIS (course designer) Mineralogy Southwest Field Studies (San Pedro River, SE Az) ELII Odyssey III (Water Quality) Special Topics: Igneous and Metamorphic Petrology Environmental Geology (Fragile Earth) Scholar's Colloquium: Issues in Public Discourse Independent Studies	Fall 2005; Spring 2005, 2004, 2003, 2002 Spring 2008, 2007, 2006 Fall 2007 Spring 2007, 2005, 2003 Fall 2007 Fall 2006, 2004, 2003, 2002, 2001 Fall 2006, 2004, 2002 May 2004 May 2006 Spring 2008, 2006, 2004, 2002 Spring 2004 Fall 2003, 2001 1 week in Spring 2004 and Spring 2003 1 week Summer 2003 Spring 2003 Fall 2001 Fall 2002 Spring 2008 - 2 Students Fall 2007 - 2 Students Spring 2007 - 2 students Spring 2006 - 2 students Fall 2005 - 2 Students Spring 2005 - 3 students Fall 2004 - 2 students Spring 2004 - 2 students Fall 2003 - 2 students Spring 2002 - 5 students
<b>Texas A &amp; M University</b>	Mineralogy Teaching Assistant (TA) Petrology TA Historical Geology TA Intro to Physical Geology TA	Fall 1999, 1998, 1997, 1995 Spring 1999 Spring 1998, 1996 Summer 1998
<b>Vermont Dept of Health</b>	Independent Studies	Fall 1987, Spring 1988, Summer 1988 - 3 students
<b>University of Vermont</b>	Physical Geology TA Sedimentary Petrology TA	Spring 1986, 1983, Fall 1983, 1982 Spring 1984
<b>Colgate University</b>	Continental Margin Geology and Resources TA Stratigraphy and Sedimentation TA	Spring 1982 Fall 1980

### Student Advisee Independent Study Projects

Fall 2007	Molly Paskan	Designing a Commercial Composting Facility for Richmond, Indiana
Spring 2006	Nathan Henderson, David Peake	GIS: Mapping Surficial Geology and Ground Water of the East Side Aquifer
Fall 2005	Nathan Henderson, David Peake	Conceptual Hydrogeologic Model for Richmond Public Water Supply Sources.
Spring 2005	Kate Burgess, Heather Hoey	Geochemistry of Late Tertiary Sediments, Pampeas Argentina (dual project).
Fall 2004	Brian Bucher Annika Taylor	Land-Use History of Contributors to Springwood Lake Heavy Metals. Heavy Metal Sources, Springwood Lake, Richmond, Indiana.
Spring 2004	Gabriel Fuson Timothy Graves	Petrography Study of Sedgwick's Rock Tufa Deposit, Richmond, Indiana. GIS Analysis of Wayne County, Indiana Digital Well Data.
Fall 2003	Tess Passey Zach Gralinsky	Mineralogy Curation. Hydrogen Fuel Cell Economics.
Summer 2003	Timothy Graves	Clay Mineralogy of South Texas Soils.
Spring 2003	Andy Graham Chris Hartman	Vertical Distribution of Heavy Metals in Springwood Lake, Richmond, Indiana. Soil Nutrient Analysis, Earlham College Back Campus
Fall 2002	Nathan Cline	Water Quality Variability along Clear Creek, Richmond, Indiana.
Spring 2002	Glenn Mutti Rebekah Fitchett Eric Scheumann	Nitrate in Middlefork Reservoir Watershed, Richmond, Indiana. Nitrate Loading of Garnett and Teale Ponds, Earlham College Campus. Potential Sources of Contamination, Richmond Wellhead Protection Areas

### **Professional Membership**

1988 - present                    Geological Society of America  
1991 - present                    National Ground Water Association and the Association of Ground Water Scientists and Engineers  
2001 - present                    Geochemical Society  
1997 - present                    American Geophysical Union  
1997 - present                    Mineralogical Society of America  
1998 - 2002                        Sigma Xi  
1997 - 2002                        Phi Kappa Phi  
1998 - 2000                        Sigma Gamma Epsilon  
1996 - 2001                        American Chemical Society  
1983-1998                         American Association of Petroleum Geologists  
1983-1995                         Vermont Geological Society: Vice-President 1992-1993; Board of Directors (1990-1992) Secretary (1988-1990)

### **Grants and Contracts**

November, 2007                  W. W. Norton Publishers, Inc., contract to develop PowerPoint slides to accompany the 2nd edition of Essentials of Geology by Stephen Marshak. 1278 Slides.

October, 2007                    Awarded \$900 to attend the Chautauqua Short Course entitled "The Birthplace and Early History of the Atomic Bomb" in Albuquerque, Los Alamos and Trinity Site, New Mexico.

August, 2007                    W. W. Norton Publishers, Inc., contract to develop PowerPoint slides to accompany the 3rd edition of Earth: Portrait of a Planet by Stephen Marshak. 1479 Slides.

February, 2007                  W.M. Keck Foundation, awarded \$360,000 with 8 colleagues to develop a multidisciplinary curriculum for teaching science to undergraduate students using field, laboratory and computation methods addressing a specific centralizing theme: metals in the environment. A central focus of the grant is a comprehensive environmental characterization of metals in Springwood Lake, extending initial research I conducted with several of my independent study students.

October, 2006                    Awarded \$600 from the Earlham College National Conference Travel Fund to present at the annual meeting of the Geological Society of America, Philadelphia, Pennsylvania.

November, 2004                  Earlham Science Instrumentation, awarded \$12,800 for an OI microwave digestion system with 2 sets of Teflon vessels.

November, 2004                  Awarded \$600 from the Earlham College National Conference Travel Fund to present at the annual meeting of the Geological Society of America, Denver, Colorado.

July, 2004                        W. W. Norton Publishers, Inc., contract to develop PowerPoint slides to accompany the 2nd edition of Earth: Portrait of a Planet by Stephen Marshak. 1280 Slides.

Spring 2004                      Howard Hughes Medical Institute (HHMI), awarded course release time to participate in the development of a new course entitled "Environmental Science and Sustainability." Course was 1st taught in the Fall of 2004.

November, 2003                  Awarded \$600 from the Earlham College National Conference Travel Fund to present at the annual meeting of the Geological Society of America, Seattle, Washington.

October, 2003                    Earlham College Professional Development Fund award of \$370 to pay for applications to the Indiana Professional Geologists Licensing Board and to the Association of State Boards of Geology (ASBOG) for licensing examinations.

November, 2002                  Awarded \$600 from the Earlham College National Conference Travel Fund to present at the annual meeting of the Geological Society of America, Denver, Colorado.

February, 2002                  Arthur Vining Davis Foundation, Private Higher Education, \$140,000 Grant to Fund Science Educational Equipment, This grant funded the following equipment: a Rigaku MSC Miniflex X-Ray Diffractometer; a Princeton Gamma Tech Sahara Energy Dispersive X-Ray Spectrometer (EDS) for Earlham's AMRAY 1810D Scanning Electron Microscope; a 2.5 Liter LABCONCO Freeze-Drier and a Ludlum # 3 Scintillometer with an Alpha, Beta and Gamma radiation detector.

November, 2001                  Awarded \$600 from the Earlham College National Conference Travel Fund to present at the annual meeting of the Geological Society of America, Boston, Massachusetts.

October 1999                      Texas Higher Education Coordinating Board, Advanced Research Program, \$126,000 to Bruce Herbert and Patrick Michaud (Texas A & M University - Corpus Christi) for Proposal entitled "Contaminants from South Texas Uranium Mines: Environmental Fate from Molecular to Watershed Scales: (proposal authored by Ron Parker).

September 1998                  College of Geosciences, Texas A & M University, \$8,500 to Bruce Herbert and Ronald Parker for proposal entitled Environmental Fate of Uranium and Associated Trace Elements in South Texas Watersheds"

July 1998                         \$700 awarded by Sigma Xi to Ronald L. Parker for proposal entitled "Hydrogeomorphic Control of Trace Element Variation: South Texas Uranium Area."

### Awards

2008	Richmond Wellhead Protection Area Local Planning Team, the American Water Works Association (AWWA) has selected Richmond, Indiana to receive the 2008 Exemplary Source Water Protection Award for Large Systems, to be presented at the annual AWWA meeting in Atlanta, Georgia in June.
2000	Texas A & M University, Graduate Research Assistantship
1999 (F, Sp)	Texas A & M University, Graduate Teaching Assistantship
1999 (Summer)	Texas A & M University, Departmental Scholarship \$1000 awarded by the Texas A & M Geology faculty
F 1998-Sp 1999	Texas A & M University, Graduate Teaching Assistantship
1998 (Summer)	Texas A & M University, Graduate Teaching Assistantship
1998	Phi Kappa Phi, Inducted into Phi Kappa Phi Graduate Honor Society
F 1997-Sp 1998	Texas A & M University, Graduate Teaching Assistantship
1997	Texas A & M University, J. W. Van Dyke Memorial Scholarship Academic Excellence Award \$1000
1997	Sigma Gamma Epsilon, Inducted into SGE, the Earth Science Honor Society
1996	Texaco Corporation, Texaco Graduate Fellowship, \$16,000 awarded by the Texas A & M Geology faculty
F 1995-Sp 1996	Texas A & M University, Graduate Teaching Assistantship

### Committee Membership

2005 - 2006	Member 5-Year Review Committee for an Administrative Faculty member
2004 - 2006	Member of the Richmond-Wayne County Environmental Action Council, appointed by Mayor Sally Hutton
2004 - 2006	Teaching Faculty Representative to the Earlham College Harassment Board
Fall 2004	GIS Day Festivities Coordinator
Spring 2004	Member of the Search Committee to appoint a new Director of Residential Life at Earlham College
2002 - 2006	Teaching Faculty Representative to the Earlham College Committee on Campus Life (CCL)
2001 - present	Member of the Richmond Wellhead Protection Area Planning Committee
2002-2004	Committee Member, Cub Scout Troop 100, Old Trails Council, Boy Scouts of America

### Short Courses, Field Trips and Additional Training

2007	The Birthplace and Early History of the Atomic Bomb, Chautauqua Short Course, Albuquerque, Los Alamos and Trinity Site, NM
2003	Building Environmental Courses into the Earlham General Education Curriculum, Earlham College, Richmond, Indiana.
2002	Introducing GIS Across the Curriculum, Center for Educational Technology, Middlebury College, Middlebury, Vermont.
2001	Superior Studies: Opportunities for Undergraduates, Wolf Ridge Environmental Learning Center, Finland, Minnesota.
2000	Hands-On Geographic Information Systems Workshop - Intermediate to Advanced ArcView GIS Using Spatial, 3-D and Image Extensions, and an Introductory Demo of ArcInfo 8, Pre-conference workshop, Geological Society of America Meeting, Reno, NV.
1999	Uranium: Mineralogy, Geochemistry and the Environment, Pre-conference workshop by the Mineralogical Society of America in conjunction with the GSA Annual Meeting, Golden, Colorado.
1996	Dinosaur Ridge Reconnaissance along Alameda Parkway, Geological Society of America Annual Meeting, Denver, Colorado.
1996	Reactive Transport in Porous Media: General Principles and Application to Geochemical Processes, Pre-conference workshop by the Mineralogical Society of America in conjunction with the Geological Society of America Annual Meeting, Golden, Colorado.
1995	Tectonics, Wall-Rock Alteration and Emplacement History of the Lantern Hill Giant Quartz Lode, Avalonian Terrane, Southeastern Connecticut, Pre-conference fieldtrip, Geological Society of America Northeastern Section Meeting, Cromwell, Connecticut.
1995	Central Vermont Quarry Tour, Vermont Geological Society Fall Field Trip, East Barre and Rochester, Vermont.
1995	System Dynamics Workshop: Modeling with STELLA, Vermont Geological Society Fall-Winter Meeting, Winooksi, Vermont.
1994	Alpine Continental Glaciation of Mt. Katahdin, Central Maine, New England Intercollegiate Geologic Conference, Millinocket, ME.
1994	Glacial Geology of the Penobscot River Basin between Millinocket and Medway, NEIGC, Millinocket, ME.
1994	Remote Sensing Short Course, University of Vermont, Burlington, Vermont.
1994	Geomorphic Application of Cosmogenic Isotopes Short Course, University of Vermont, Burlington, Vermont.
1994	Cretaceous Intrusions in the Rutland Area, Vermont Geological Society Fall Field Trip, Rutland, Vermont.
1992	Rock and Mineral Extraction Industry Tour, Vermont Geological Society Fall Field Trip, Rochester, Vermont.
1992	Surficial Geology and Soils of Southern Madison County, New York, New York State Geologic Conference, Hamilton, New York.
1992	Comparative Sedimentology of the Lower Devonian Manlius Formation near Hamilton, NYSGA, Hamilton, New York.
1992	Groundwater and Soil Vapor Investigation and Remediation Techniques, Eastern and Central Massachusetts, New England Intercollegiate Geologic Conference, Amherst, Massachusetts.
1992	Hydrogeology and Hydrogeochemistry of the Connecticut Valley and Quabbin Reservoir Areas, New England Intercollegiate Geologic Conference, Amherst, MA.
1992	Stratigraphy and Paleogeology of the Triassic-Jurassic Deerfield Rift, Massachusetts, New England Intercollegiate Geologic Conference, Amherst, MA.
1991	Asbestos Inspector Certification 24-Hour Course, Burlington, Vermont.
1991	Structure and Stratigraphy of Northwest Vermont, Vermont Geological Society Fall Field Trip, South Hero, Vermont.
1990	OSHA 8-Hour Hazardous Waste Activities Supervisors Course, Albany, New York.
1989	NWWA Introduction to Groundwater Geochemistry, Burlington, VT.
1989	NWWA OSHA 40-Hour "Safety at Hazardous Materials Sites (HAZWOPER)" Training, Valhalla, New York.
1989	Groundwater Remediation at a Site in Northeastern Vermont, Vermont Geological Society Fall Field Trip, Isle La Motte, Vermont.
1989	Chazy Reef, Isle La Motte, Vermont Geological Society Summer Field Trip, Isle La Motte, Vermont.
1988	Middle Ordovician Stratigraphy and Sedimentology - Southern Lake Champlain Valley, New York State Geologic Conference, Plattsburgh, New York.
1988	Metasedimentary and Metavolcanic Rocks of the Ausable Syncline, Northeastern Adirondacks, New York State Geologic Conference, Plattsburgh, New York.
1988	Hydrogeochemistry Short Course, Geological Society of America Northeastern Section Meeting, Portland, Maine.
1988	Concepts of Hydrogeology as Illustrated by Case Histories, University of Vermont, Burlington, Vermont.

- 1988 National Pesticide Survey Team Training, Vermont Department of Health, Burlington, Vermont.  
1987 Carbonate-Clastic Synthems of the Middle Beekmantown Group in the Central and Southern Champlain Valley, New England Intercollegiate Geologic Conference, Montpelier, Vermont.  
1987 Glacial Lake Hitchcock in the Valleys of the White and Ottauquechee Rivers, East-Central Vermont, New England Intercollegiate Geologic Conference, Montpelier, Vermont.  
1987 EPA Assessment and Management of Drinking Water Contamination, Colonie, New York.  
1987 USGS MODFLOW; A Modular 3-D Finite Difference Groundwater Flow Model, Plattsburgh, New York.

### **Invited Presentations**

- February 28, 2008 "Gems and Minerals" Seton Elementary School 1st and 2nd Grades.  
February 7 and 14, 2008 Geologist Merit Badge, Old Trails Council, Boy Scout Troop 117, Richmond, Indiana.  
November 8, 2007 "The Webelos Geologist", presented to Old Trails Council, Cub Scout Troop 100, Richmond, Indiana.  
March 9, 2007 "Fossil Fuels and Global Warming" Seton Elementary School 4th Grade Science Class, Richmond, IN  
February 23, 2007 "The Rock Cycle and Pangea" Seton Elementary School 1st and 2nd Grades, Richmond, IN  
February 22, 2007 "Minerals" Seton Elementary School 1st and 2nd Grades, Richmond, IN  
January 31, 2007 One of 4 panelists for Earlham Convocation "An Inconvenient Truth: Critique and Commentary" Richmond, IN  
November 17, 2006 "Plate Tectonics and the Rock Cycle: Making the 3 Rock Types Out of Candy", Erica Pearson's 4th Grade Class, Charles Elementary, Richmond, Indiana.  
  
November 4, 2006 "All University Wandering Field Trip of the Professional Geologists of Indiana" All-day field trip for 65 people.  
February 13, 2006 "Hydrogeology of Richmond's East Side Water Supply" to the Richmond Economic Development Council  
January 6, 2006 "The Tectonic Evolution of the American Southwest", lecture for 2006 Earlham Southwest Field Studies class.  
January 5, 2006 "The Rock Cycle" Seton Elementary School 3rd Grade Science Class  
November 10, 2005 "The Webelos Geologist", presented to Old Trails Council, Cub Scout Troop 100, Richmond, Indiana.  
October 29, 2005 "Flintknapping Demonstration" Old Trails Council, Boys Scout Fall Jamboree, Bear Creek Campground,  
August 31, 2005 "Ice Ages: Impact on Human Dispersal in the Americas" lecture for Dr. Robert Meckley's class on American Natives, Miami University - Hamilton.  
  
May 25, 2005 "Glacial and Ground Water Geology of Richmond, Indiana", Seton Elementary School 6th Grade Science Class  
May 18, 2005 "Minerals, Surface Water and Geologic Hazards", Seton Elementary School 6th Grade Science Class  
May 11, 2005 "The Rock Cycle, Plate Tectonics and Pangaea", Seton Elementary School 6th Grade Science Class  
February 25, 2005 "Natural Disasters & Climatic Change" panelist on WMUB Forum, a call-in radio talk show, WMUB, Oxford, OH.  
February 10, 2005 "The Webelos Geologist", presented to Old Trails Council, Cub Scout Troop 100, Richmond, Indiana.  
December 7, 2004 "The Geology of the Grand Canyon" presented to Old Trails Council, Boy Scout Troop 117, Richmond, Indiana.  
November 17, 2004 "GIS Day Demonstrations", presented to the Richmond and Earlham College Communities.  
April 13, 2004 "Using GIS in Environmental Geochemistry: The Case of the Tar Creek, Oklahoma, Superfund Site" lecture for Katy Nicholson's Introduction to GIS class.  
  
April 7, 2004 "The Geology of the American Southwest" invited lecture for Jon Branstrator's Environmental Geoscience class  
January 7, 2004 "Ground and Surface Water Resource Issues in the San Pedro River Valley, Southeastern Arizona" lecture for 2004 Earlham Southwest Field Studies class  
  
January 6, 2004 "The Tectonic Evolution of the American Southwest", lecture for 2004 Earlham Southwest Field Studies class.  
August 20, 2003 "The Geology of Rivers" Seminar presentation for the 2003 Earlham College Faculty Retreat.  
April 17, 2003 "The Geologic History of Richmond, Indiana" Seton Elementary School 3rd Grade Class,  
January 16, 2003 "The Webelos Geologist: Rocks and Minerals", presented to Cub Scout Troop 100, Richmond, Indiana.  
January 9, 2003 "The Webelos Geologist: Plate Tectonics", presented to Cub Scout Troop 100, Richmond, Indiana.  
September 25, 2002 "Sustainability from a Geologic Perspective" presentation as a panelist for 'Disciplinary Perspectives on Sustainability' inaugural event for the Earlham College Environmental Lecture Series.  
  
May 17, 2002 "The Geology of Whitewater Gorge", field trip hike for Tiger Cub Scouts, Troop 100, Richmond, Indiana.  
April 15, 2002 "An Introduction to GIS" Guest Lecturer in Mic Jackson's Applied Environmental Modeling class.  
April 2, 2002 "Application of GIS to Trace Element Distribution near South Texas Uranium Mines", Miami Univ., Oxford, Ohio  
January 19, 2002 "Flintknapping" demonstration for Bear Cub Scouts, Troop 100, Richmond, Indiana.  
October 9, 2002 "The Webelos Geologist", presented to Old Trails Council, Cub Scout Troop 100, Richmond, Indiana.  
December 23, 2001 "How Fossils are Made" demonstration for Tiger Cub Scouts, Troop 100, Richmond, Indiana.  
September 20, 2001 "Some (of My) Environmental Health Perspectives: Endocrine Disrupting Compounds" Guest Lecturer in Mic Jackson's Applied Environmental Modeling class.  
  
March 2, 2001 "Arsenic and MTBE: A Tale of Two Public Health Threats", Guest lecturer for Fragile Earth class, Earlham.  
March 1, 2001 "Geochemistry of Trace Elements Released from South Texas Uranium Mines" Seminar, Earlham College.  
January 29, 2001 "Metamorphic Rocks" Guest Lecturer for Introductory Physical Geology class at University of Wisconsin - Parkside.  
  
January 30, 2001 "Geochemistry of Trace Elements Released from South Texas Uranium Mines" Seminar U. Wisconsin - Parkside.  
March 22, 1988 "The Hydrogeochemistry of Radon" Guest Lecturer for Judy Hannah's Isotope Geology class, UVM

### **Research Poster Presentations**

- November 10, 2004 "Bedrock and Potentiometric Surface Mapping by GIS Analysis of Digital Well Records, Wayne County, Indiana" GSA Annual Meeting, Denver, Colorado (with Tim Graves, EC '04).  
November 9, 2004 "Petrographic Study of Sedgwick Rock Tufa Deposit, Wayne County, Indiana" Geological Society of America Annual Meeting, Denver, Colorado (with Gabriel Fuson, EC '04).  
November 3, 2003 "Vertical Distribution of Heavy Metals in Springwood Lake Sediments, Richmond, Indiana, Annual GSA Meeting, Seattle, Washington, (with Andrew Graham, EC '03).  
October 29, 2002 "Investigation of Nitrate Concentrations within the Middlefork Reservoir Watershed, Wayne County, Indiana" Geological Society of America Annual Meeting, Denver, Colorado (with Glenn Mutti, EC '02).  
November 5, 2001 "Ground Water Discharge from Mid-Tertiary Rhyolitic Ash-Rich Sediments as the Source of Elevated Arsenic in South Texas Surface Waters" Geological Society of America Annual Meeting, Boston, Massachusetts.

- October 26, 2000 "Livestock Pond Sediments from the Falls City UMTRA Site: Scrutiny of Contaminant Classification" Geological Society of America Annual Meeting, Denver, Colorado.
- September 29, 1993 "Field and Bench-Scale Comparison of Photoionization Detectors", National Ground Water Association, FOCUS on Eastern Regional Ground Water Issues (1994), Burlington, Vt.
- June 2, 1988 "Geologic Controls of the Distribution of Uranium and Associated Radon in the Clarendon Springs Dolomite (Upper Cambrian-Lower Ordovician), Milton, Vt", Radon in the Northeast: Perspectives and Geologic Research, Troy, N.Y.
- April 9, 1981 "Paleoenvironmental Reconstruction of the Ogdensburg Dolostone (Beekmantown Group: Lower Ordovician); Ottawa - St. Lawrence Lowlands", Geological Society of America Northeast Section Meeting, Bangor, ME.

### **Research Oral Presentations**

- October 13, 2000 "Using GIS and Uranium Mining History to Identify Trace Element 'Hotspots' within a South Texas Watershed" Geological Society of America Annual Meeting, Reno, Nevada.
- October 20, 2000 "History, Geochemistry and Environmental Impact of Contaminants Released by Uranium Mining in South Texas", Proceedings of the 8th Annual South Texas Environmental Conference, Corpus Christi, Texas.
- September 8, 2000 "Uranium Mining in South Texas: Contaminant Dispersion at the Watershed-Scale", Texas A & M University, Department of Geology and Geophysics, Environmental and Engineering Geology Fall Seminar Series.
- May 2, 2000 "Contaminants from South Texas Uranium Mines: Environmental Fate from Watershed to Molecular Scales" Conrad Blucher Institute for Surveying and Science, Corpus Christi, Texas.
- April 24, 2000 "Geochemistry of Trace Elements Released from South Texas Uranium Mines" Association of Engineering Geologists, Texas Section, Spring Meeting, Texas A & M University.
- April 17, 1999 "Rare Earth Elements in Guadalupe Delta Soils, Texas Gulf Coast: Potential Tracer for Holocene Climate Change" Texas A & M University Student Research Week.
- September 10, 1998 "A Model for Uranium Accumulation in Texas Gulf Coastal Wetlands" Texas A & M Department of Geology and Geophysics Seminar Talk.
- March 22, 1993 "Background Soil Concentrations of Polycyclic Aromatic Hydrocarbons from Burlington, Vermont" Applied Environmental Geology, Geological Society of America Northeast Section Meeting, Burlington, Vermont.
- March 22, 1993 "Ground Water Contamination: Does Public Policy Ignore Science?" Panel Moderator, GSA Northeast Section Meeting, Burlington, Vermont.
- August 22, 1992 "Remediation of Contaminated Ground Water", Vermont Geological Society, Summer field trip, Barre, Northfield, and Waitsfield, Vermont.
- August 17, 1991 "Slope Failure in Vermont", Vermont Geological Society Summer trip. Sharon, Hardwick and Cambridge, Vt.
- February 20, 1988 "The Paleoenvironmental and Stratigraphic Significance of Chertified Ooids in the Clarendon Springs Dolomite (Upper Cambrian), Milton, Vermont", Vermont Geological Society Winter Meeting, Northfield, VT.
- October 17, 1987 "The Cambrian Platform in Northwestern Vermont", NEIGC, Colchester, Milton and South Hero Island, VT.
- April 26, 1986 "Paleoenvironmental Synthesis of the Deschambault Limestone(Lower Trenton) of Southeastern Quebec: A Storm Dominated Ramp", Vermont Geological Society Winter Meeting, Burlington, VT.
- March 13, 1986 "Paleoenvironments of a Middle Ordovician Carbonate Ramp: Deschambault Formation of Southeastern Quebec" GSA Northeast Section Meeting, Kiamesha Lake, NY.
- February 19, 1983 "A Preliminary Model of Changing Riverine Landforms in one Segment of the Lower Missisquoi River Valley", Vermont Geological Society Winter Meeting, Montpelier, VT.

### **Presentation Abstracts**

- Graves, Tim and Ronald L Parker (2004) Bedrock and Potentiometric Surface Mapping by GIS Analysis of Digital Well Records, Wayne County, Indiana, Geological Society of America Abstracts with Programs, vol. 36(5), p. 562.
- Fuson, Gabriel and Ronald L. Parker (2004) Petrographic Study of Sedgwick Rock Tufa Deposit, Wayne County, Indiana, Geological Society of America Abstracts with Programs, vol. 36(5), p. 367.
- Graham, Andrew and Ronald L. Parker (2003) Vertical Distribution of Heavy Metals in Springwood Lake Sediments, Richmond, Indiana, Geological Society of America Abstracts with Programs, vol. 35(7), p. 144.
- Chusuei, C.C., R. L. Parker, and B.E. Herbert (2003) Molybdate Sorption to the Goethite Surface: Evidence for Inner-sphere Complexation. Colloids and Interfaces in the Environment, 34th ACS Central Regional Meeting.
- Mutti, Jeffrey G. and Ronald L. Parker (2002) Investigation of Nitrate Concentrations Within the Middlefork Reservoir Watershed, Wayne County, Indiana, Geological Society of America Abstracts with Programs, vol. 34(6), p. 257.
- Smith, Crystal M., Philippe E. Tissot, Mark Beaman, Ronald L. Parker, Jill Brandenberger, Martha Williams, Patrick Louchouart, Bruce Herbert and Patrick Michaud (2002) Historical Environmental Impact of Uranium Mining Through the Gamma Ray Analysis of Livestock Pond Sediments, Geological Society of America Abstracts with Programs, vol. 34(6), p. 416.
- Smith, Crystal M., Philippe E. Tissot, Patrick Louchouart, Mark Beaman, Ronald L. Parker, Martha Williams, Jill Brandenberger, Bruce E. Herbert and Patrick R. Michaud (2002) Have Radionuclides Released from the South Texas Uranium Mines Affected Lake Corpus Christi? Sigma Xi Student Research Conference, Galveston, Texas, November 16, 2002, p. 31.
- Parker, Ronald L., Bruce E. Herbert, Jill Brandenberger and Patrick Louchouart (2001) Ground Water Discharge from Mid-Tertiary Rhyolitic Ash-Rich Sediments as the Source of Elevated Arsenic in South Texas Surface Waters, Geological Society of America Abstracts with Programs, vol. 33, p. A53

Brandenberger, Jill M., Patrick Louchouart, Bruce E. Herbert, Philippe E. Tissot, Patrick R. Michaud, Ronald L. Parker, Martha Williams, James Bonner and Mark Beaman (2001) Behavior of Trace Metal Concentrations in Water Profiles from Lake Corpus Christi Subsequent to an Overturn Event. National Oceanic and Atmospheric Administration Student Conference: Expanding Opportunities in Oceanic and Atmospheric Sciences. April 1-3, 2001, Jackson, Mississippi.

Herbert, Bruce E. and Ronald L. Parker (2000) Arsenic and Other Uranium Associated Contaminants from South Texas Uranium Mines: Environmental Fate from Molecular to Watershed Scales, Symposium on Arsenic Chemistry and Biology and the Management of Arsenic Contaminated Soil and Water, Annual Meeting of the Soil Science Society of America and American Society of Agronomy, Minneapolis, Minnesota, November 6-7, 2000.

Parker, Ronald L. and Bruce E. Herbert (2000) Using GIS and Uranium Mining History to Identify Trace Element "Hotspots" within a South Texas Watershed, Geological Society of America Abstracts with Programs, vol. 32, p. A125.

Parker, Ronald L. and Bruce E. Herbert (2000) History, Geochemistry and Environmental Impacts of Contaminants Released by Uranium Mining in South Texas, 8th Annual South Texas Environmental Conference, October 18-20, 2000, Corpus Christi, Texas.

Parker, Ronald L. and Bruce E. Herbert (2000) Investigation of Uranium Mining Contaminants in the Nueces River Watershed, Proceedings of the 8th Annual South Texas Environmental Conference, October 18-20, 2000, Corpus Christi, Texas.

Louchouart, Patrick, Jill Brandenberger, Philippe Tissot, Patrick Michaud, Bruce Herbert, Ron Parker (2000) Contamination from South Texas Uranium Mines: Environmental Fate from Molecular to Watershed Scales" (or, Levels of Heavy Metals in our Drinking Water Source: the Nueces River/Lake Corpus Christi System), Coastal Bend Bays Foundation Meeting, October 9th, 2000.

Brandenberger, Jill, Patrick Louchouart, Bruce Herbert, Philippe Tissot, Patrick Michaud, Ronald L. Parker, Jim Bonner, and Mark Beaman (2000) Behavior of Trace Metal Concentrations in Water Profiles from Lake Corpus Christi Subsequent to an Overturn Event, Proceedings of the 8th Annual South Texas Environmental Conference, October 18-20, 2000, Corpus Christi, Texas.

Herbert, Bruce E. Jae-young Choi, Ronald L. Parker and Dongqiang Zhu (2000) Contaminant Sorption to Mineral Surfaces: Linking Molecular Sorption Mechanisms to Complexity of Field-Scale Bioavailability. Gordon Research Conference Environmental Sciences 2000: Water - Environmental Pressures and Chemical Pathways from Molecular to Ecosystem Scale, June 27-30, 2000, The Holderness School, NH.

Parker, Ronald L., Bruce E. Herbert, Philippe E. Tissot and Geoffrey F. Ussery (1999) Contaminants from South Texas Uranium Mines: Livestock Pond Sediments from the Falls City, Texas UMTRA Site - Scrutiny of Contaminant Classification, Geological Society of America Abstracts with Programs, vol. 31, no. 7, p. A340.

Parker, Ronald L. (1999) Geochemistry of Trace Elements Released from South Texas Uranium Mines, Spring Meeting of the Texas Section of the Association of Engineering Geologists, 4/24/99

Parker, Ronald L. (1998) Watershed-Scale Bioavailability of Molybdenum Released from South Texas Uranium Mines, Expanding Excellence, Texas A & M University, Department of Geology and Geophysics.

Parker, Ronald L. (1998) Rare Earth Element Variation in Guadalupe Delta Soils, Texas Gulf Coast: Potential Tracer for Holocene Climate Change, Proceedings Spring 1998 Texas A & M University Student Research Week, p. 58-59.

Parker, Ronald L. and Michael K. Sparks (1993) Background Soil Concentrations of Polycyclic Aromatic Hydrocarbons from Burlington, Vermont, Geological Society of America Abstracts with Programs, vol. 25, p. 43.

Parker, Ronald L., Winslow H. Ladue and Michael B. Smith (1988) Wellhead Protection in Vermont: Assessment and Management of Proposed and Existing Risks to Drinking Water Quality and Quantity, EPA Wellhead Protection Conference, New Orleans, Louisiana.

Parker, Ronald L. and Eve Witten (1988) Paleoenvironmental and Stratigraphic Significance of Chertified Ooids in the Clarendon Springs Dolostone (Upper Cambrian), Milton, Vermont, The Green Mountain Geologist, vol. 14, no. 4, pp. 7-8.

Parker, Ronald L., Eve Witten and Bruce W. Selleck (1988) Geologic Controls of the Distribution of Uranium and Radon in the Clarendon Springs Dolomite (U. Cambrian - L. Ordovician), Milton, VT, Northeastern Environmental Science, vol. 7, no. 1, p. 8.

Parker, Ronald L. and Charlotte J. Mehrtens (1986) Paleoenvironments of a Middle Ordovician Carbonate Ramp: Deschambault Formation of Southeastern Quebec, Geological Society of America Abstracts with Programs, vol. 18, no. 1, p. 60.

Parker, Ronald L. (1986) Paleoenvironmental Synthesis of the Deschambault Limestone (Lower Trenton) of Southeastern Quebec: A Storm Dominated Ramp, The Green Mountain Geologist, vol. 13, no. 1, pp. 13-14.

Mehrtens, Charlotte J. and Ronald L. Parker (1984) Comparison of Foreland Basin Sequences: Trenton Group in Southern Quebec and Central New York, American Association of Petroleum Geologists Bulletin, vol. 68, no. 12, p. 1924.

Thomas, Peter A. and Ronald L. Parker (1983) A Preliminary Model of Changing Riverine Landforms in One Segment of the Lower Missisquoi River Valley, Green Mountain Geologist, vol. 9, no. 3, pp. 9-10.

Morgan, Carol M. and Ronald L. Parker (1981) Paleoenvironmental Reconstruction of the Ogdensburg Dolostone (Beekmantown Group: L. Ordovician); St. Lawrence Lowlands, Geological Society of America Abstracts with Programs, vol. 13, no. 3, p. 167.

## **Publications**

- Parker, Ronald L. (2007) Editable PowerPoint lecture slides to accompany "Essentials of Geology - 2nd Edition" published by W. W. Norton, Inc. Provided on a CD by W. W. Norton to textbook adopters as an ancillary teaching aid. 19 chapters; 1278 slides.
- Parker, Ronald L. (2007) Editable PowerPoint lecture slides to accompany "Earth: Portrait of a Planet, 3rd Edition" published by W. W. Norton, Inc. Provided on a CD by W. W. Norton to textbook adopters as an ancillary teaching aid. 23 chapters; 1479 slides.
- Parker, Ronald L. (2006) Fieldtrip Guidebook for Lower Paleozoic and Pleistocene Excursions in the Vicinity of Richmond, Indiana. Professional Geologists of Indiana Fall 2006 Fieldtrip, Earlham College, Richmond, Indiana November 4th, 2006.
- Parker, Ronald L. (2006) Editable PowerPoint lecture slides to accompany "Earth: Portrait of a Planet, 2nd Edition" published by W. W. Norton, Inc. Provided on a CD by W. W. Norton to textbook adopters as an ancillary teaching aid. 23 chapters; 1280 slides.
- Parker, Ronald L. and Bruce E. Herbert (2000) History, Geochemistry and Environmental Impacts of Contaminants Released by Uranium Mining in South Texas, Proceedings of the 8th Annual South Texas Environmental Conference, 10/18-20, 2000, Corpus Christi, Texas, 15 pp.
- Brandenberger, Jill, Patrick Louchouart, Bruce Herbert, Philippe Tissot, Patrick Michaud, Ronald Parker, Jim Bonner, and Mark Beaman (2000) Behavior of Trace Metal Concentrations in Water Profiles from Lake Corpus Christi Subsequent to an Overturn Event, Proceedings of the 8th Annual South Texas Environmental Conference, October 18-20, 2000, Corpus Christi, Texas, 7 pp.
- Parker, Ronald L. (1997) Book Review: Groundwater and Soil Contamination Database (American Geological Institute), Engineering Geoscience, Vol 3(4), pp. 599-606.
- Hoffer, Jefferson P., Kent S. Koptiuch and Ronald L. Parker (1994) Field and Bench-Scale Comparison of Photoionization Detectors, Proceedings of the 1994 National Ground Water Association FOCUS Conference on Eastern Regional Ground Water Issues, Burlington, Vermont, October 3-5, 1994, pp. 679-692.
- Hoffer, Jefferson P., Kent S. Koptiuch and Ronald L. Parker (1994) Field and Bench-Scale Comparison of Photoionization Detectors, The Green Mountain Geologist, vol. 21, no. 2, pp. 16-18.
- Parker, Ronald (1992) Editorial: Educational Opportunities for Hydrogeology in Vermont, The Green Mountain Geologist, v. 19(2): 3-5.
- Parker, Ronald (1992) Humic Substances in the Aqueous Environment: Implications for the Environmental Chemistry of Trace Metals, The Green Mountain Geologist, vol. 19, no. 2, pp. 25-33.
- Parker, Ronald (1992) Polycyclic Aromatic Hydrocarbons as Environmental Contaminants, Green Mountain Geologist, v. 19(2): 18-24.
- Mehrtens, Charlotte J., Ronald L. Parker and Robert G. Butler (1987) The Cambrian Platform in Northwestern Vermont, New England Intercollegiate Geologic Conference Fieldtrip Guidebook, 79th annual meeting, Montpelier, Vermont pp. 254-270.
- Parker, Ronald L. (1986) Lithofacies, Paleoenvironments and Tectonic History of the Deschambault Limestone, Southeastern Quebec, Unpublished M.S. Thesis, University of Vermont, Burlington, Vermont, 174 pp.
- Morgan, Carol M. and Ronald L. Parker (1981) The Ogdensburg Dolostone of the Ottawa - St. Lawrence Lowlands (Lower Ordovician): Reconstruction of Paleoenvironments from Sedimentologic Evidence, Colgate Journal of the Sciences, vol. 13, pp. 33-42.

## **Public Testimony**

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|------------------|---|
| July 6, 2005     | Proposed Wellhead Protection Ordinance, Richmond City Council   |
| May 26, 2005     | Hayes Arboretum Proposed Development: Need for Water Supply Protection, Hydrogeological Investigation and Monitoring, Richmond Advisory Plan Commission |
| April 28, 2005   | Hayes Arboretum Proposed Development: Need for Water Supply Protection, Hydrogeological Investigation and Monitoring, Richmond Advisory Plan Commission |
| February 2, 2004 | Hayes Arboretum Proposed Development: Need for Water Supply Protection, Hydrogeological Investigation and Monitoring, Richmond Common Council           |

## **Popular Media**

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|-------------------|---|
| March 11, 2008    | Agency: Local water safe despite concerns around the country, Richmond's water is so protected it wins a prize, Richmond, Indiana Palladium Item, by Bill Engle |
| February 15, 2008 | Geosciences Department to Face Faculty Turnover, Earlham Word, by Laura Gleason   |
| November 30, 2007 | Earlham Classes Take Learning to a Whole New Level, Earlham Word, by Emma McBride   |
| November 30, 2007 | Environmentalism on Earlham's Campus: How is it Handled? Earlham Word, by Evan Fackler  |
| November 3, 2007  | Rage Continues over Dumping Behind Miller Farm, Earlham Word, by Virgil Looney  |

- March 2, 2007 Grant Lets EC Students Get Their Hands Dirty: Multidisciplinary Grant Integrates Field Studies, Lab Work and Computational Modeling, Earlham Word, by Adam Putnam
- February 16, 2006 Mild Midwest Days Fuel Global Warming Talk: Weather Changes Occur Much Faster than they have in Previous Years, Richmond, Indiana Palladium Item, by Don Fasnacht.
- August 26, 2005 Richmond Attorney Concerned by Hayes Project Richmond, Indiana Palladium Item, by Brian Zimmerman.
- July 7, 2005 Council Considers Amendment to Aquifer Ordinance: Some Say Change Will Cost Businesses; Deter Others from Moving Here Richmond, Indiana Palladium Item, Front Page, by Don Fasnacht.
- May 27, 2005 Hayes Plan Approved; Kohl's Joins Retail Pack; Board Gives Nod Despite Consultant's Concerns over Water Drainage Richmond, Indiana Palladium Item, by Rebecca Helmes.
- May 27, 2005 People at Meeting Express Their Passions over Project. Hayes Arboretum Land: Richmond Village, Richmond, Indiana Palladium Item, by Bill Engle
- May 25, 2005 Mayor Wants to Protect City Aquifer: Compromises, Attention to Water Supply Help Ease Hutton's Concerns, Richmond, Indiana Palladium Item, by Bill Engle
- May 22, 2005 Sides Ready for Showdown: Developer Takes Plan to Commission Thursday for OK, Richmond, Indiana Palladium Item, by Bill Engle
- January 10, 2005 Lasting Effects of a Violent Earth: Ron Parker, Earlham College Online Pressroom: Experts
- February 23, 2004 Air and Water Pollution: Mercury Emissions Toxic Limits - Tougher EPA Rules Could Come; RP&L May Be Ahead of Game, Richmond, Indiana Palladium Item, Front Page, A2, A5
- February 3, 2004 Hayes Arboretum Rezoning: Request Narrowly Passes, Moves on to Mayor's Desk, Richmond, Indiana Palladium Item
- October 16, 2003 Residents Respond to Hayes Arboretum Compromise. Richmond, Indiana Palladium Item
- Summer, 2002 Wading into Geology: If You Want to Learn Environmental Geology, Ron Parker Can Help You Get Your Feet Wet, The Earhamite (Alumni Magazine), p. 20-22, by Richard Holden.
- June 19, 2001 New Madrid Fault Zone: Quake Shakes Up Southern Indiana Richmond, Indiana Palladium Item

### **Other Accomplishments**

- Elected Vice-President (1994-5), Board of Directors member (1993-4) and Secretary of the Vermont Geological Society (1991-2).
- Special events and welcoming party coordinator: NE, Geological Society of America, (1993), Burlington, Vermont.
- Public forum moderator: "Ground Water Contamination: Does Public Policy Ignore Science?" (1993) NEGSA Burlington, Vermont.
- Guest Editor: Green Mountain Geologist (1992) Vermont Geological Society quarterly newsletter.

### **References**

- Dr. Margaret Streepey, Assistant Professor and Convener, Department of Geosciences, Earlham College, Richmond, Indiana, 47374 (765) 983-2168, streeme@earlham.edu
- Dr. Andrew Moore, Assistant Professor, Department of Geosciences, Earlham College, Richmond, Indiana, 47374 (765) 983-1339, moorean@earlham.edu
- Dr. Robert Meckley, Visiting Assistant Professor; Assistant Director, Michael J. Colligan History Project, History Department, 559 Mosler Hall, Miami University - Hamilton, Hamilton, Ohio, 45011, (513) 785-3275, mecklerc@muohio
- Dr. Jon Branstrator, Emeritus Professor, Department of Geosciences, Earlham College, Richmond, Indiana, 47374 (765) 983-1339, jonb@earlham.edu
- Dr. Bruce Herbert, Assistant Department Head, Graduate Coordinator, and Professor, Department of Geology and Geophysics, Texas A & M University, College Station, Texas 77843 (979) 845-2405, herbert@geo.tamu.edu

### **Miscellaneous**

- Married Kristina Murphy, June 8, 1991, Five children (Andrew, William, Margaret, Daniel and Jane).
- NASDS Certified SCUBA Diver.
- Recreational interests include rock, mineral and fossil collecting, playing guitar, watching and playing ice hockey. Updated: May 14, 2008 (2:52pm)