
William H. Desvousges, Ph.D.
President

W.H. Desvousges & Associates, Inc.

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Employment Chronology

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| 2005 to date | President
W.H. Desvousges & Associates, Inc. |
| 1994 to 2005 | President
Triangle Economic Research
Durham, NC |
| 1996 to 1999 | Research Professor
Duke University
Durham, NC |
| 1989 to 1994 | Program Director/Senior Program Director
Center for Economics Research
Research Triangle Institute
Research Triangle Park, NC |
| 1980 to 1989 | Senior Economist
Center for Economics Research
Research Triangle Institute
Research Triangle Park, NC |
| 1975 to 1980 | Assistant/Associate Professor
Department of Economics
University of Missouri at Rolla
Rolla, MO |
| 1986 | Visiting Lecturer
Meredith College
Raleigh, NC |
| 1984 to 1985 | Visiting Lecturer
University of North Carolina at Chapel Hill
Chapel Hill, NC |
| 1980 to 1984 | Visiting Lecturer
North Carolina State University
Raleigh, NC |

Education

Ph.D., 1977, Economics, Florida State University, Tallahassee, Florida

M.S., 1974, Economics, Florida State University, Tallahassee, Florida

B.A., 1972, Economics, Stetson University, Deland, Florida

Key Projects

- Use of habitat equivalency analysis in Grand River Ditch damage assessment (Water Supply and Storage Company)
- Use and critique of habitat equivalency analysis for petroleum refinery sites (confidential client)
- Services-based critiques of various groundwater damage assessments in New Jersey (ExxonMobil, Dow Chemical, and others)
- Critique of Trustee contingent valuation study of alleged aesthetic and ecological injuries in the Illinois River Watershed (Tyson Foods, Inc.)
- Assessment of potential recreation use losses in Illinois River Watershed (Tyson Foods, Inc.)
- Critique of the use of habitat equivalency analysis for historical mining site (Confidential Client)
- Prepared alternative natural resource damage estimates for key mining and smelting sites (ASARCO, Inc.)
- Conducting human use service assessment for cooperative damage assessment for Ottawa River (GenCorp, Inc.)
- Groundwater damages at the South Valley Superfund Site in New Mexico (General Electric Company)
- Evaluation of the use of survey methods by appraisers to value a commercial property (ChevronTexaco)
- Evaluation of the use of contingent valuation surveys to measure diminished property values in Mississippi (confidential client)
- Evaluation of market and survey-based methods for measuring damages from underground storage tanks (USTs) to both residential and commercial properties (confidential client)

- The role of individual factors in using market and survey-based methods for measuring potential damages to classes of residential properties in Colorado Springs, Colorado (Davis Graham Stubbs)
- The role of individual factors in using market and survey-based methods for measuring both residential and commercial properties in Oklahoma (confidential client)
- The reliability of survey and market-based methods for measuring damages from increased eutrophication in lakes (confidential clients)
- Comments on the benefit estimates of EPA's proposed Phase II 316(b) Rule (The Utility Water Act Group)
- Benefit-cost analysis of various regulatory alternatives for 316(b) compliance in Connecticut" (confidential client)
- Benefit-cost analysis of 316(b) regulatory alternatives in California (confidential client)
- Creel/angler survey on the Lower Passaic River (Tierra Solution)
- Human use compensatory restoration strategy for Onondaga Lake (Honeywell International)
- Review of New Jersey's groundwater damage assessment formula (New Jersey Site Remediation Industry Network)
- Environmental costs for particulate matter and mercury: an assessment of the recent literature (Xcel Energy)
- NRDA for a major waterway in the Northeast (confidential client)
- Alternative Santa Clara River HEA (confidential client)
- Saginaw Bay and River natural resource damage assessment (General Motors)
- Evaluating the reliability of contingent valuation (U.S. Environmental Protection Agency)
- Measuring environmental costs for resource planning (Northern States Power Company)
- Natural resource damage assessment for Lavaca Bay, Texas (Alcoa)
- Natural resource damage assessment for the Clark Fork Basin in Montana (ARCO)
- Using conjoint analysis to value health (Health Canada et al.)
- Wisconsin Energy Research Project (consortium of Wisconsin utilities)

- Estimating the market potential for 'green' products (Niagara Mohawk)
- Fox River natural resource damage assessment (Fox River Group)
- Kalamazoo River natural resource damage assessment (Kalamazoo River Study Group)
- St. Lawrence River-Massena natural resource damage assessment (Reynolds, Alcoa, General Motors)
- Wisconsin externalities costing: principles & practices (Task Force on Externality Costing, Wisconsin utilities)
- Measuring benefits of the effluent guidelines: an evaluation of the benefits transfer technique (Office of Science and Technology, U.S. Environmental Protection Agency)
- Information, risk perception, and mitigation: behavioral responses to environmental risk (National Science Foundation)
- Natural resource damage assessments for the Martinez, California; Gasconade River, Missouri; and Arthur Kill, New Jersey Oil Spills (various clients)
- Communicating risk effectively (Office of Policy Planning and Evaluation, U.S. Environmental Protection Agency)
- Valuing reductions in hazardous waste risks (Office of Policy Analysis, U.S. Environmental Protection Agency)
- Evaluating risks of a high-level nuclear waste repository (State of Nevada)
- A comparison of benefit estimation approaches (Office of Policy Analysis, U.S. Environmental Protection Agency)

Expert Reports

- Expert Report of William H. Desvousges, Ph.D. In the Matter of *New Jersey Department of Environmental Protection, et al. v. Union Carbide Corporation, et al.* August 13, 2010.
- Expert Report in the Matter of *The Quapaw Tribe of Oklahoma, et al. v. Blue Tee Corp, et al.* June 25, 2010.
- Expert Report in the Matter of *New Jersey Department of Environmental Protection, et al. v. Essex Chemical Corporation.* Superior Court of New Jersey Law Division - Middlesex County Docket No: MID-L-5685-07. January 8, 2010.
- Expert report in the Matter of *DeLeo, et al. v. Bouchard Transportation Co., et al.* December 15, 2009.

- Expert report in the Matter of *Abrams, et al. v. Ciba Specialty Chemicals Corp, et al.* The United States District Court Southern District Of Alabama. CASE NO. 08-68-WS-B. May 15, 2009.
- Rebuttal expert report in the Matter of *Robert C. Brandriff, et al. v. Dataw Island Owners' Association, Inc., et al.* Civil Action No. 9:07-3361-CWH. April 27, 2009.
- Expert report in the Matter of *STATE OF OKLAHOMA, ex. rel. W.A. DREW EDMONDSON, in his capacity as ATTORNEY GENERAL OF THE STATE OF OKLAHOMA and OKLAHOMA SECRETARY OF THE ENVIRONMENT, J.D. Strong, in his capacity as the TRUSTEE FOR NATURAL RESOURCSE FOR THE STATE OF OKLAHOMA, Plaintiffs v. TYSON FOODS, INC., TYSON POULTRY, INC., TYSON CHICKEN, INC., COBB-VANTRESS, INC., AVIAGEN, INC., CAL-MAINE FOODS, INC., CAL-MAINE FARMS, INC., CARGILL, INC., CARGILL TURKEY PRODUCTION, LLC, GEORGE'S INC., GEORGE'S FARMS, INC., PETERSON FARMS, INC., SIMMONS FOODS INC., and WILLOW BROOK FOODS, INC., Defendants.* Case No. 05-CV-329-GKF-PJC. March 31, 2009.
- Report prepared in Response to Request for Comments on Regulatory Review Alternatives: The Value of Cost-Benefit Analysis. Utility Water Act Group. March 31, 2009.
- Expert report in the Matter of *Robert C. Brandriff, et al. v. Dataw Island Owners' Association, Inc., et al.* Civil Action No. 9:07-3361-CWH. December 1, 2008.
- Affidavit of William H. Desvousges, Ph.D. in the Matter of *Jeff Alban, et al. v. ExxonMobil Corporation, et al.* Submitted to the In Circuit Court for Baltimore County. Case No.:03-C-06-010932
- Affidavit of William H. Desvousges, Ph.D. in Support of Defendants' Opposition to Motion for Class Certification in the Matter of *Murray Gintis, Victoria Gintis and Claudia Martin on behalf of themselves and all others similarly situated v. Bouchard Transportation Company, Inc., Tug Evening Tide Corporation and B. NO. 120 Corporation.* Submitted to the United States District Court for the District of Massachusetts. Civil Action No. 06-10747-JLT. July 29.
- Expert Report of William H. Desvousges, Ph.D. Submitted in Support of Defendants' Opposition to Plaintiffs' Motion for Partial Summary Judgment in the Matter of *Murray Gintis, Victoria Gintis and Claudia Martin on behalf of themselves and all others similarly situated v. Bouchard Transportation Company, Inc., Tug Evening Tide Corporation and B. NO. 120 Corporation.* July 10.
- Rebuttal Expert Report of William H. Desvousges, Ph.D. in the Matter of *USA v. Water Supply & Storage.* October 24, 2007.
- Expert Report of William H. Desvousges, Ph.D. in the Matter of *USA v. Water Supply & Storage.* September 27, 2007.

- Expert Reports in the Matter of *Official Committee of Unsecured Creditors v. ASARCO LLC (In re ASARCO LLC)*, Case No. 05-21207.
 - Estimate of Environmental Liabilities. California Gulch Superfund Site. Leadville, Colorado. Prepared by ENVIRON International Corporation, Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. May 4, 2007.
 - Estimate of Environmental Liabilities. Bunker Hill Superfund Facility/Coeur d'Alene Basin. Idaho/Washington. Prepared by ENVIRON International Corporation Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. June 15, 2007.
 - Estimate of Environmental Liabilities. Tacoma Smelter Site. Tacoma, Washington. Prepared by ENVIRON International Corporation Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. June 15, 2007.
 - Estimate of Environmental Liabilities. Everett Smelter Site. Everett, Washington. Prepared by ENVIRON International Corporation Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. June 15, 2007.
 - Rebuttal Expert Report. California Gulch Superfund Site. Leadville, Colorado. Prepared for Milbank, Tweed, Hadley & McCloy LLP. On behalf of ASARCO Incorporated. Prepared by ENVIRON International Corporation Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. June 22, 2007.
 - Estimate of Environmental Liabilities. Nueces Bay/Corpus Christi Bay. Corpus Christi, Nueces County, Texas. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
 - Estimate of Environmental Liabilities. Big River Mine Tailings and Federal Mine Tailings Sites. St. Francois County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
 - Estimate of Environmental Liabilities. Catherine Mine Site/Madison County Mines Site. Madison County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
 - Estimate of Environmental Liabilities. Glover Lead Facility. Glover, Missouri. Prepared by ENVIRON International Corporation St.

Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.

- Estimate of Environmental Liabilities. Sweetwater Mine Site. Reynolds County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Estimate of Environmental Liabilities. West Fork Mine Site. Reynolds County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Estimate of Environmental Liabilities. Tar Creek Site. Ottawa County, Oklahoma. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Estimate of Environmental Liabilities. Cherokee County Superfund Site. Cherokee County, Kansas. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Estimate of Environmental Liabilities. Newton County Mine Tailings Site. Newton County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Estimate of Environmental Liabilities. Jasper County Superfund Site. Jasper County, Missouri. Prepared by ENVIRON International Corporation St. Peters, Missouri and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. On behalf of ASARCO Incorporated. July 27, 2007.
- Rebuttal Expert Report. Bunker Hill Superfund Facility/Coeur d'Alene Basin. Idaho/Washington. Prepared for Milbank, Tweed, Hadley & McCloy LLP. On behalf of ASARCO Incorporated. Prepared by W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. August 10, 2007.
- Rebuttal Expert Report. Tacoma Smelter Site. Tacoma, Washington. Prepared for Milbank, Tweed, Hadley & McCloy LLP. On behalf of ASARCO Incorporated. Prepared by ENVIRON International Corporation Chicago, Illinois and W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. August 14, 2007.
- Rebuttal Expert Report. Nueces Bay/Corpus Christi Bay Corpus Christi, Nueces County, Texas. Prepared for Milbank, Tweed, Hadley

& McCloy LLP. On behalf of ASARCO Incorporated. Prepared by W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. September 17, 2007.

- Rebuttal Expert Report. Tri-State Sites. Prepared for Milbank, Tweed, Hadley & McCloy LLP. On behalf of ASARCO Incorporated. Prepared by W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. September 17, 2007.
- Rebuttal Expert Report. East Helena Superfund Site, East Helena, Montana. Prepared for Milbank, Tweed, Hadley & McCloy LLP. On behalf of ASARCO Incorporated. Prepared by W.H. Desvousges & Associates, Inc. Raleigh, North Carolina. November 2, 2007.
- Expert Report in the Matter of *New Jersey Department of Environmental Protection and Acting Administrator, New Jersey Spill Compensation Fund v. Higgins Disposal, et al.* March 16, 2006.
- Expert Report in the Matter of *New Jersey Department of Environmental Protection and Acting Administrator, New Jersey Spill Compensation Fund v. Exxon Mobil Corporation, et al.* March 3, 2006.
- Expert Affidavit of William H. Desvousges In Support Of Defendant's Opposition To Plaintiffs' Motion For Partial Summary Judgment in the Matter of *New Jersey Department of Environmental Protection and Administrator New Jersey Spill Compensation fund v. Exxon Mobil Corporation.* February 17, 2006.
- Expert Report in the Matter of *Fisher, et al. v. Ciba Corporation.* February 15, 2006.
- Expert Report in the Matter of *Perrine, et al. v. E.I. DuPont De Nemours and Company, et al.* February 3, 2006.
- Expert Report in the Matter of *Estate of David Hill, et al. v. Koppers Industries, Inc., et al.* January 26, 2006.
- Second Expert Report in the Matter of *Allgood, et al. v. General Motors Corporation.* September 29, 2005.
- Expert Report in the Matter of *Jackson, et al. v. Johnson Electric Automotive, Inc., et al.* August 15, 2005.
- Expert Report in the Matter of *Beck, et al. v. Koppers Industries, Inc., et al.* August 1, 2005.
- Declaration of William H. Desvousges, Ph.D. Pursuant to 28 U.S.C. § 1746. April 15, 2005.
- Supplemental Report in the Matter of *Palmisano, et al. v. Olin Corporation.* February 7, 2005.

- Expert Report in the Matter of *Allgood, et al. v. General Motors Corporation*. January 17, 2005.
- Expert Report in the Matter of *LaBauve, et al. v. Olin Corporation*. December 10, 2004.
- Expert Report in the Matter of *Cole, et al. v. ASARCO, et al.* August 23, 2004.
- Expert Report in the Matter of *Daniels, et al. v. Olin Corporation*. August 16, 2004.
- Expert Report in the Matter of *Kellum, et al. v. Kuhlman Corporation, et al.* July 2003.
- Expert Report in the Matter of *Susann Stalcup, et al. v. Schlage Lock Company, et al.* April 1, 2003.
- Expert Report in the Matter of *Muise/Tzannetakos, et al. v. GPU Energy*. December 2, 2002.
- Expert Report in the Matter of *State of New Mexico v. General Electric Company, et al.* February 1, 2002.
- Expert Report in the Matter of *Major Andrews, et al. v. Kerr-McGee Corporation, Inc., et al.* June 29, 2001.
- Expert Report: *Volume I: Critique of the State of Montana's Contingent Valuation Study*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.
- Expert Report: *Volume II: Critique of the State of Montana's Recreation Study*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.
- Expert Report of William H. Desvousges and Steven M. Waters: *Volume III: Report on Potential Economic Losses Associated with Recreation Services in the Upper Clark Fork River Basin*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.
- Expert Report: *Volume IV: Critique of the State of Montana's Groundwater Valuation*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.
- Expert Report: *Volume V: Report on Potential Economic Losses Associated with Groundwater*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.

- Expert Report of William H. Desvousges and Steven M. Waters: *Volume VI: Additional Economic Critique of the State of Montana's Damage Estimates*. 1995. Submitted to United States District Court, District of Montana, Helena Division in the Matter of *State of Montana v. Atlantic Richfield Company*. Case No. CV-83-317-HLN-PGH.

Testimony

Provided expert witness deposition testimony In the *Matter of New Jersey Department of Environmental Protection, et al. v. Union Carbide Corporation, et al.* September 16, 2010.

Provided expert witness deposition testimony in the Matter of *The Quapaw Tribe of Oklahoma, et al. v. Blue Tee Corp, et al.* The United States District Court For The Northern District Of Oklahoma. Case No. 03-CV-0846-CVE-PJC. June 29, 2010.

Provided expert witness testimony in the Matter of *DeLeo, et al. v. Bouchard Transportation Co., et al.* March 30, 2010.

Provided expert witness testimony in the Matter of *New Jersey Department of Environmental Protection, et al. v. Essex Chemical Corporation*. Superior Court of New Jersey Law Division - Middlesex County Docket No: MID-L-5685-07. March 25, 2010.

Provided expert witness videotape deposition testimony in the Matter of *Abrams, et al. v. Ciba Specialty Chemicals Corp, et al.* The United States District Court Southern District Of Alabama. CASE NO. 08-68-WS-B. St. Augustine, FL. June 15, 2009.

Provided expert witness testimony in the *Matter of Robert C. Brandriff, et al. v. Dataw Island Owners' Association, Inc., et al.* Civil Action No. 9:07-3361-CWH. April 2009.

Provided expert witness testimony in the *Matter of USA v. Water Supply & Storage*. November 28, 2007.

Provided expert witness testimony in the *Matter of Official Committee of Unsecured Creditors v. ASARCO LLC (In re ASARCO LLC)*, Case No. 05-21207. Bunker Hill Superfund Facility/Coeur d'Alene Basin. Idaho/Washington. Settlement Hearing. October 9-12, 2007.

Provided expert witness testimony in the *Matter of Official Committee of Unsecured Creditors v. ASARCO LLC (In re ASARCO LLC)*, Case No. 05-21207. Bunker Hill Superfund Facility/Coeur d'Alene Basin. Idaho/Washington. Deposition. September 26, 2007.

Provided expert witness testimony in the *Matter of Official Committee of Unsecured Creditors v. ASARCO LLC (In re ASARCO LLC)*, Case No. 05-21207. California Gulch Superfund Site Settlement Hearing. July 27, 2007.

Provided expert witness testimony in the *Matter of Official Committee of Unsecured Creditors v. ASARCO LLC (In re ASARCO LLC)*, Case No. 05-21207. California Gulch Superfund Site Deposition. July 24, 2007.

Provided expert witness testimony in the *Matter of New Jersey Department of Environmental Protection and Acting Administrator, New Jersey Spill Compensation Fund v. Exxon Mobil Corporation, et al.* March 28, 2006.

Provided expert witness testimony in the *Matter of Fisher, et al. v. Ciba Corporation.* March 2, 2006.

Provided expert witness testimony in the *Matter of Allgood, et al. v. General Motors Corporation.* February 15, 2006.

Provided expert witness testimony in the *Matter of Palmisano, et al. v. Olin Corporation.* February 23, 2005.

Provided expert witness testimony in the *Matter of LaBauve, et al. v. Olin Corporation.* Civil No. 03-567 in the U.S. District Court, Southern District of Alabama. February 14, 2005.

Provided expert witness testimony in the *Matter of Betty Jean Cole, et al. v. ASARCO Incorporated, et al.* Case No. 03-CV-327(H) M in the U.S. District Court, Northern District of Oklahoma. October 8, 2004.

Provided expert witness testimony in the *Matter of Daniels, et al. and Palmisano, et al. v. Olin Corporation, et al.* Case No. C 03-01211 RMW in the U.S. District Court, Northern District of California, San Jose Division. September 21 and 22, 2004 and February 23, 2005.

Provided expert witness testimony and participated in Daubert hearing in the *Matter of State of New Mexico v. General Electric Company, et al.* Case No. CIV 99-1254, Case No. CIV 99-1118. Consolidated by Order dated June 14, 2000. January 2004.

Provided testimony to the Public Service Commission of Wisconsin in the *Matter of "Application of Wisconsin Electric Power Company; Wisconsin Energy Corporation; and W.E. Power, LLC for a Certificate of Public Convenience and Necessity for Construction of Three Large Electric Generation Facilities, the Elm Road Generating Station, and Associated High Voltage Transmission Interconnection Facilities to be Located in Milwaukee and Racine Counties.* Docket No. 05-CE-130. September 8, 2003.

Provided expert witness testimony in the *Matter of Kellum, et al. v. Kuhlman Corporation, et al.* Civil Action No. 2001-0313 through 2001-324 in the Circuit Court of Copiah County, Mississippi. August 19 and August 20, 2003.

Provided expert witness testimony in the Matter of *Susann Stalcup, Craig Lewis and Sharon Lewis v. Schlage Lock Company, Ingersoll-Rand Company and Eagle-Picher Industries, Inc.* Case No. 02-RB01188(OES). June 12, 2003.

Provided expert witness testimony in the Matter of *Mary Louise Fairey, et al. v. the Exxon Corporation, Standard Oil Company, et al.* Case No. 94-CP-38-118. March 13 and June 3, 2003.

Provided expert witness testimony in the Matter of *Muise/Tzannetakis, et al. v. GPU Energy.* January 22, 2003.

Provided expert witness testimony in the Matter of *Andrews, et al. v. Kerr-McGee Corporation, et al.* Civil Action No. 1:00-CV-00158-B-A in the U.S. District Court, Northern District of Mississippi, Eastern Division. October 16, 2001.

Provided expert witness testimony in the Matter of *State of New Mexico v. General Electric Company, et al.* Case No. CIV 99-1254, Case No. CIV 99-1118. Consolidated by Order dated June 14, 2000.

Provided expert witness testimony in the Matter of *State of Montana v. Atlantic Richfield Company* in the U.S. District Court, District of Montana, Helena Division. Case No. CV-83-317-HLN-PGH. July 13, 1995. Rebuttal Testimony provided February 1, 1996.

Provided testimony on the Matter of "The Role of Contingent Valuation in Natural Resource Damage Assessment" before the U.S. House of Representatives Subcommittee on Commerce, Trade, and Hazardous Materials. June 20, 1995.

Provided testimony before the Public Utilities Commission of the State of Minnesota in the Matter of "The Quantification of Environmental Costs." Docket No. E-999/CI-93-583. Testimony in November 1994. Rebuttal in March 1995, and Sur-rebuttal in April 1995.

Testified before the National Oceanic and Atmospheric Administration (NOAA) Contingent Valuation Panel in the Matter of "Using CV to Measure Nonuse Damages: An Assessment of Validity and Reliability." August 12, 1992.

Provided testimony to Wisconsin Public Service Commission in the Matter of "Accounting for Environmental Externalities in Electric Utility Planning." November 26, 1991.

Areas of Specialization

Property Valuation

Prepared expert report that critiqued reports provided by the plaintiff's economic experts in a lawsuit alleging groundwater contamination at a Superfund site in

the western U.S. Created a sophisticated hedonic property value model demonstrating that the Superfund site had no effect on residential property values.

Performed statistical analyses of changes in property values as a result of mandatory membership in a golf club.

In several states, directed projects evaluating the use of surveys to measure diminished property values, commercial and residential property values, potential damages to residential and commercial properties, and potential damages from various contaminants.

Critiqued the contingent valuation survey of a plaintiff's expert in a series of lawsuits alleging property damages caused by a wood-treating facility in Mississippi. Demonstrated that the survey is unreliable for use in litigation.

Natural Resource Damage Assessment

Assisted in NRD assessment for a process-water release (Mosaic).

Performed and critiqued habitat equivalency analysis studies.

Prepared assessment of proposed changes to DOI NRDA rules.

Developed comprehensive assessment plans for complex assessments for a wide range of sites.

Performed preliminary assessments for both oil-spill and hazardous-waste sites.

Designed state-of-the-art studies to measure potential losses for recreation and groundwater services. Studies included data-collection protocols and implementation.

Performed critical analyses of studies that used contingent valuation to measure nonuse values.

Designed and directed studies to measure potential recreation losses and to evaluate potential restoration gains.

Critiqued the transfer study used by the plaintiff's expert in a Louisiana lawsuit seeking restoration funds to convert floatant freshwater marsh habitat to uplands. Provided an alternative estimate of the value of the wetlands.

Benefit/Cost Analysis

Prepared comments to Office of Management and Budget on potential revisions to benefit cost analyses of governmental regulations for the Utility Water Act Group.

Prepared comments on economic issues in EPA's proposed 316(b) regulations for The Utility Water Act Group.

Directed a benefit analysis of technology-based effluent guidelines for municipal and industrial dischargers.

Directing projects to measure benefits of 316(b) regulatory alternatives for several utility clients

Served on peer review committee associated with benefits transfer data needs for Environment Canada.

Served as peer reviewer on benefits transfer for Ontario Ministry of the Environment.

Directed a feasibility study of using benefit-cost techniques to assist in the planning of estuaries cleanup. The study used case studies of two estuaries: the Albemarle and Pamlico Sounds.

Prepared a handbook on benefit-cost assessment for water programs that included chapters on measuring benefits and costs, selecting a discount rate, and assembling a benefit-cost assessment.

Compared alternative approaches for estimating the recreation and related benefits of the Monongahela River in Pennsylvania. Developed a survey questionnaire to measure recreation, user, option, and existence benefits for different levels of water quality. The survey design enabled a comparison of bidding games, direct-question, and contingent-ranking techniques for measuring benefits. Used clustered sampling techniques to sample 393 households, and compared the direct survey results with benefits estimates derived from an indirect estimation technique.

Survey Design and Management

During the past 25 years, designed and managed large-scale surveys. Experienced in using bidding games, direct-question, contingent-ranking, and discrete-choice techniques for measuring benefits of natural resource and environmental policies. Directed focus groups to determine appropriate terminology, to evaluate the effectiveness of alternative visual aids used in the surveys, and to assess the various survey issues. Developed surveys to evaluate the following:

- Health benefits from reduced cardiac and respiratory morbidity using conjoint analysis
- Market penetration for “green” products using conjoint analysis
- Customer willingness to pay for “greener” electricity using conjoint analysis
- The role of quality-of-life measures in the benefits of improved life extension
- Natural resource damages
- Risk-communication effectiveness

- Radon risk perceptions and willingness to pay to reduce perceived risks
- Benefits of hazardous waste management regulations
- Risk perceptions related to the proposed siting of a nuclear waste repository and willingness to pay to reduce those perceived risks
- Recreation benefits demand
- Recreation, user, and option benefits for different levels of water quality

Environmental Costing

Provided analysis and testimony for the eastern Wisconsin utilities in hearings on environmental costing before the Wisconsin Public Service Commission.

Estimated the environmental externality costs of resource planning options for the eastern Wisconsin utilities and for Northern States Power.

Participated in environmental costing workshop and served on peer review committee for Ontario Hydro.

Health Economics

Conducted focus groups and used verbal protocols to develop stated-preference conjoint survey questionnaires.

Conducted large-scale stated-preference conjoint survey to measure benefits of reduced cardiac and respiratory morbidity.

Designed/conducted pilot study of quality of life and enhanced longevity using conjoint stated-preference methods.

Designed and distributed radon information materials that were sent to 2,000 homeowners in the state of New York who had their homes tested for radon. Supervised interviews with homeowners, sequenced over a nine-month to two-year period, to elicit their perceptions of radon risks and tracked any expenditure decisions to reduce these risks. The expenditures were used to estimate a willingness-to-pay measure of the value of reductions in radon risks. The research design also evaluated the effectiveness of an information policy for reducing radon risks.

Developed and evaluated alternative approaches for encouraging Maryland homeowners to test for radon. Developed and pretested risk communication materials that ranged from radio public service announcements to public display posters and brochures. Used a three-community experimental design with 1,500 baseline and follow-up interviews in each community to measure effectiveness.

Professional Associations

- American Economic Association
- Association of Environmental and Resource Economists (AERE)
- Associate Member, Appraisal Institute
- Member of Nominating Committee for AERE, 1983 and 1986

Honors and Awards

- Recipient, Research Triangle Institute Professional Development Award, 1985
- Nominated for Outstanding Young Man of Rolla, Missouri, 1979
- Outstanding Teacher Award, University of Missouri at Rolla, 1977 to 1979
- Scholar-Diplomat, U.S. State Department, 1978
- Graduated *cum laude*, Stetson University, 1972

Professional Leadership

- Vice President, Association of Environmental and Resource Economists, 1992 to 1994
- Associate Editor, *International Journal of Energy Studies*, 1989 to 1993
- Associate Editor, *Journal of Environmental Economics and Management*, 1992 to 1994
- Associate Editor, *Water Resources Research*, 1984 to 1987

Journals and Book Reviews

- *American Economic Review*
- *Review of Economics and Statistics*
- *Land Economics*
- *Journal of Environmental Economics and Management*
- *Growth and Change*
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