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EDUCATION

DOCTOR OF PHILOSOPHY, December 1987
Duke University
Department of Economics and Department of Forestry and Environmental Studies
Dissertation: Short-run water supply allocation under uncertainty: markets and market failure.
Concentration: Natural resource and environmental economics, water resource systems, public finance, industrial organization.

MASTER OF SCIENCE, May 1986
Duke University
Department of Forestry and Environmental Studies
Thesis: a spatial equilibrium model for water resources assessment: a case study of Cyprus.

BACHELOR OF ARTS, June 1979
Harvard University
Major: Economics
Honors: *Cum laude* with high honors in economics.
Senior thesis: Appropriate technology and economic cost-benefit analysis.

GRANTS & AWARDS

Fulbright-Schuman European Affairs Scholar – 2009
Research on the European Union Emissions Trading Scheme for GHG Emissions.

Colorado College Annual Award for Contributions to Sustainability - 2007

John and Beverly Knight Chair for the Study of Free Enterprise, 1999-2002 (first holder)

RGK Foundation – Grant for wireless classroom initiative (first on campus), 2000

Outstanding Faculty Advisor Award – 1991 (first year award was given)

Resources for the Future Grant, Resources for the Future - 1989

PROFESSIONAL EXPERIENCE

Professor of Economics, Colorado College. 2002 – Present. Courses taught: environmental economics, resource economics, microeconomic theory, research methods, industrial organization, principles of economics, the Colorado River, water in the west, natural resource management. Advisor for the minor in resource systems in the American west and the minor in Central American Studies; assistant department chair, fall, 1993; acting department chair, spring 1994; assistant department chair 1996 to 2000. Chair, Faculty Executive Committee, 1999-2000. Department Chair, 2000 to 2003. Director, Schlessman Program for Business in a Changing World, 2003 to 2009.

Adjunct Professor. 2003-2011. Josef Korbel School of International Studies. University of Denver. Courses taught: environmental economics, global water resources, economics of climate change.

Associate Professor of Economics, Colorado College. 1993 – 2002.

Project Manager/Research Scholar, Water Resources Project, International Institute for Applied Systems Analysis, Laxenburg, Austria. Researched use of economics instruments for water quality management in central and eastern Europe and helped develop water quality management software. Coordinated research efforts of a multi-national, multi-disciplinary team of eight research scholars. May 1994 – June 1996.

Assistant Professor of Economics, Colorado College. 1988 – 1993.

Visiting Assistant Professor of Water Resources Management, School of Forestry and Environmental Studies, Duke University. 1986-1988. Courses taught: hydrology, water resource systems, seminar in air and water resources.

Consultant. Water Supply and Sewerage Division, Europe, Middle East and North Africa Department, The World Bank. 1984-1986. Developed spatial equilibrium model for regional and national scale water resources assessment.

Coach. Department of Athletics, Duke University. 1984. Coached men's crew team.

Research and Teaching Assistant, School of Forestry and Environmental Studies, Duke University. 1982 – 1986. Developed database for study on returns to research in southern forestry. Conducted weekly discussion sessions in resource economics. Lectured on water resource economics.

Research Assistant, Industrial Development and Finance Department, The World Bank. 1981 – 1982. Conducted research on the finance of food processing industries. Served as rapporteur for international conference on finance of small-scale industry in Asia.

Staff Assistant, The President's Nuclear Safety Oversight Committee, 1991. Conducted research on the safety programs of the Nuclear Regulatory Commission.

PROFESSIONAL EXPERIENCE (cont.)

Research Assistant, Appropriate Technology International, 1979-1981. Appraised small-scale projects. Served as rapporteur for international conference on appropriate technology in Asia.

REVIEWED PUBLICATIONS

Payne, Mathew T. and Smith, M.G. "Price Variation in the Market for Water Rights in the South Platte River Basin," Journal of the American Water Resources 1-13. DOI: [10.1111/jawr.12215](https://doi.org/10.1111/jawr.12215) June 2014.

Payne, Mathew T. and Smith, M.G. "The Influence of the Real Estate Market on Water Right Values in New Mexico's Middle Rio Grande Basin," International Journal of Water Resources Development, 29 (4) December 2013, pp. 588-604.

McMahon, Tyler and Smith, M.G. "The Arkansas Valley Super Ditch: A Local Approach to Rotational Fallowing to Prevent Water Transfers" Journal of the American Water Resources Association 49 (1) January 2013, pp. 151-159.

Fenn, A.; Johnson, D.; Smith, M.G. and Stimpert, J.L. "Doing Publishable Research with Undergraduates," Journal of Economic Education. 41 (3) June 2010, pp. 259-274.

Smith, M. G. "Case Studies on Location: Taking to the Field in Economics," Journal of Economic Education. 38 (3) Summer 2007, pp. 308-317.

Smith, M. G. "Dam Removal: A Taxonomy with Implications for Economic Analysis," Journal of Contemporary Water Research and Education. 134, July 2006, pp. 34-38.

Klaassen, G.; Nentjes, A. and Smith, M.G. "Testing the Theory of Emissions Trading: Experimental Evidence on Alternative Mechanisms for Global Carbon Trading," Ecological Economics 53 (1), 2005, pp. 47-58.

Smith, M. G., De Marchi, C. and Jolma, A. "Paddling Enforceable Approaches Upstream to EU Standards?: Water Quality Management and Policy Implementation in Central and Eastern Europe," Water Science and Technology 40(10), 1999, pp. 73-79

De Marchi, C.; Ivanov, P.; Jolma, A.; Masliev, I.; Smith, M.G.; and Somlyódy, L. "Innovative Tools for Water Quality Management and Policy Analysis: DESERT and StreamPlan," Water Science and Technology 40(10), 1999, pp. 103-110.

De Marchi, C.; Jolma, A.; Smith, M.G.; Perera, B.J.C. and Somlyódy, L. "StreamPlan: A Support System for Water Quality Management on a River Basin Scale," Environmental Software and Modeling, 12(4), 1997 pp. 275-284.

REVIEWED PUBLICATIONS (cont.)

Smith, M.G. "Stnaje I Doseg Gospodarskih Mjera I institucija U Upravljanju Kvalitetom Voda (The State of the Art in Economic Instruments and Institutions for Water Quality Management)," Hrvatske Vode, 3(10-11), 1996, pp. 173-187, (translated into Croatian by Borivoj Glumbi).

Naeser, R.B. and Smith, M.G. "Playing with Borrowed Water: Conflicts of Instream Flows on the Upper Arkansas River," The Natural Resources Journal, 24 (Winter 1995), pp. 93-110.

Howe, C.W. and Smith, M.G. "The Value of Water Supply Reliability in Urban Water Systems," Journal of Environmental Economics and Management 24 (1994): 19-30.

Howe, C.W. and Smith, M.G. "Incorporating Public Preferences in Planning Urban Water Supply Reliability," Water Resources Research 29 (October 1993): 3363 – 3369.

Smith, M.G. and Marin, C.M. "Analysis of Short-run Domestic Water Supply Allocation under Uncertainty," Water Resources Research 29 (August 1993): 2909 – 2916.

Marin, C.M. and Smith, M.G. "Water Resources Assessment: A Spatial Equilibrium Approach," Water Resources Research 24 (June 1988): 793 – 801.

PUBLICATIONS CURRENTLY IN REVIEW

Dimantchev, Emil and Smith, M.G. "Biodiversity Conservation through REDD+: Modeling Costs of Alternative Scenarios in the Tropical Region. Climate Policy (in review.)

OTHER PUBLICATIONS

Naeser, R.B. and Smith, M.G., "Water as Property in the American West." in A.V. Fotland, ed. History of Water, Vol. II – The Political Economy of Water, London: I.B. Tauris, 2007.

Howe, C.W. and Smith, M.G. with Bennett, L.; Brendecke, C.M.; Flack, J.E.; Hamm, R.M.; Mann, R.; Rozaklis, L.; and Wunderlich, K. "The Value of Water Supply Reliability in Urban Water Systems." in K.W. Easter and M.E. Renwick, eds. Economics of Water Resources, The International Library of Environmental and Economics Series, Aldershot, Hampshire, UK: Ashgate, 2004.

Klaassen, G.; Nentjes, A. and Smith, M.G.. "Testing the Dynamic Theory of Emissions Trading: Experimental Evidence for Global Carbon Trading," IR-01-063, Laxenburg: International Institute for Applied Systems Analysis, November 2001.

REFERENCES

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