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EDUCATION

- Ph.D. Economics, University of Maryland at College Park, January 1997
- M.A. Economics, University of Zimbabwe, 1988
- B.A. Economics, Political Science, Gettysburg College, 1986

EXPERIENCE

National Center for Environmental Economics, U.S. Environmental Protection Agency

Research Economist 1997-Present

I conduct research on benefits assessment techniques for EPA regulation. My current areas of research include: economic benefits of action on climate change, human health impacts of exposure to toxic substances, benefits and costs of reducing pollution in the Chesapeake Bay, evaluation of voluntary programs, and the economics of non-compliance. I run one of the three integrated assessment models used by the Federal Government's Interagency Workgroup on the Social Cost of Carbon. I provide internal training on economic analysis for regulatory development. I review economic analyses for environmental regulation.

Executive Director of the Economics Forum 2007

I directed an interagency economics workgroup that identified and resolved major technical economics issues. I organized, convened and chaired regular meetings of the Forum and its Steering Committee.

Acting Division Director 2004-2005

I served as the Acting Division Director for the Innovation and Emerging Challenges Division of the National Center for Environmental Economics. I managed an interdisciplinary group of economists, epidemiologists, health scientists, and environmental specialists.

Department of Economics, University of Maryland

Lecturer 2013-Present

I teach evening courses in Environmental Economics for the Master of Professional Studies in Applied Economics.

Advanced Academic Programs, Johns Hopkins University

Lecturer 2007-Present

I teach evening and online courses in Benefit-Cost Analysis for the Masters in Applied Economics program.

Council of Economic Advisers, Executive Office of the President

Senior Economist for Environment, Energy, and Natural Resources 2007- 2008

I advised the members of the Council of Economic Advisers and senior White House staff on issues of agricultural subsidies, alternative and renewable fuel standards, corporate average fuel economy standards, environmental regulation, global climate change, endangered species, the Farm Bill reauthorization, ocean policy, strategic petroleum reserve, and water infrastructure. I wrote a chapter on alternative energy for the *Economic Report of the President*. I assisted in the design of a proposed greenhouse gas reduction strategy that was recommended to the President. I represented the Council of Economic Advisers in internal meetings on environment, energy and natural resources.

Department of Economics, Gettysburg College
Visiting Assistant Professor

2000-2001

Environment, Infrastructure and Agriculture Division, World Bank
Consultant

1993-1997

Interindustry Forecasting Project at the University of Maryland
Research Assistant

1990-1993

JOURNAL PUBLICATIONS AND BOOK CHAPTERS

- Marten, Alex L., Elizabeth A. Kopits, Charles W. Griffiths, Stephen C. Newbold, and Ann Wolverton. 2014. "Incremental CH₄ and N₂O mitigation benefits consistent with the US Government's SC-CO₂ estimates." *Climate Policy*. 5(2): 272-298.
- Marten, Alex L., Robert E. Kopp, Kate C. Shouse, Charles W. Griffiths, Elke L. Hodson, Elizabeth Kopits, Bryan K. Mignone, Chris Moore, Steve C. Newbold, Stephanie Waldhoff, and Ann Wolverton. 2013. "Improving the assessment and valuation of climate change impacts for policy and regulatory analysis." *Climatic Change*. 117(3): 433-438.
- Griffiths, Charles. 2013. "The Clean Water Act." In Timothy C. Haab and John C. Whitehead, ed. *Environmental and Natural Resource Economics: An Encyclopedia*. Santa Barbara, CA: Greenwood.
- Newbold, Stephen C., Charles Griffiths, Chris Moore, Ann Wolverton, and Elizabeth Kopits. 2013. "A rapid assessment model for understanding the social cost of carbon." *Climate Change Economics* 4(01):1-40.
- Griffiths, Charles, Heather Klemick, Matt Massey, Chris Moore, Steve Newbold, David Simpson, Patrick Walsh, and William Wheeler. 2012 "U.S. Environmental Protection Agency Valuation of Surface Water Quality Improvements" *Review of Environmental Economics and Policy*. 6(1): 130-146.
- Griffiths, Charles, Elizabeth Kopits, Alex Marten, Chris Moore, Steve Newbold, and Ann Wolverton. 2012 "The Social Cost of Carbon: Valuing Carbon Reductions in Policy Analysis" In Ruud de Mooij, Ian W.H. Parry, and Michael Keen, eds. *Guidelines for Fiscal Policy and Climate Change*. Washington, D.C.: International Monetary Fund.
- Griffiths, Charles, Elizabeth Kopits, Alex Marten, Chris Moore, Steve Newbold, and Ann Wolverton 2010. "Estimating the 'Social Cost of Carbon' for Regulatory Impact Analysis" *Resources for the Future: Weekly Policy Commentary*. November 5.
- Brouhle, Keith, Charles Griffiths, and Ann Wolverton. 2009. "Evaluating the role of EPA policy levers: An examination of a voluntary program and regulatory threat in the metal-finishing industry" *Journal of Environmental Economics and Management*. 57(2): 166-181.
- Griffiths, Charles. 2008. "Searching for Alternative Energy Solutions" Chapter 7 of the *Economic Report of the President*. Washington, DC: Government Printing Office.
- Griffiths, Charles, Al McGartland, and Maggie Miller. 2007. "A Comparison of the Monetized Impact of IQ Decrements from Mercury Emissions" *Environmental Health Perspectives*. 115(6): 841-847.
- Iovanna, Rich and Charles Griffiths. 2006. "Clean Water, Ecological Benefits, and Benefits Transfer: A Work in Progress at the U.S. EPA" *Ecological Economics*. 60(20):473-482.
- Brouhle, Keith, Charles Griffiths, and Ann Wolverton. 2005. "The Use of Voluntary Approaches for Environmental Policymaking in the U.S." In Edoardo Croci. ed. *The Handbook of Environmental Voluntary Agreements*. New York: Kluwer Academic Publisher.
- Griffiths, Charles, and William Wheeler. 2005. "Benefit-Cost Analysis of U.S. Regulations Affecting Surface Water Quality" In Roy Brouwer and David Pearce, ed. *Cost-Benefit Analysis and Water Resources Management*. Northampton, MA: Edward Elgar Publishing.
- Axelrad, Daniel A., Karl Baetcke, Chris Dockins, Charles W. Griffiths, Richard N. Hill, Patricia A. Murphy, Nicole Owens, Nathalie B. Simon, Linda K. Teuschler. 2005. "Risk Assessment for Benefits Analysis: Framework for Analysis of a Thyroid-Disrupting Chemical" *Journal of Toxicology and Environmental Health, Part A*. 68:1-19.

- Griffiths, Charles. 2004. "Economic Implications of Hormesis in Policy Making" *Human and Experimental Toxicology*. 23(6): pp. 281-3.
- Dockins, Chris, Charles Griffiths, Nicole Owens, Nathalie Simon, and Daniel Axelrad. 2004. "Linking Economics and Risk Assessment" *Journal of Toxicology and Environmental Health Part A*. 67(8-10): 611-620, 2004.
- Griffiths, Charles, Chris Dockins, Nicole Owens, Nathalie B. Simon, and Daniel A. Axelrad. 2002. "What to Do at Low Doses: A Bounding Approach for Economic Analysis" *Risk Analysis: An International Journal*, 2(4): 679-688.
- Chomitz, Kenneth M. and Charles Griffiths. 2001. "An Economic Analysis and Simulation of Woodfuel Management in the Sahel" *Environmental & Resource Economics*, July, 19(3): 285-304.
- Cropper, Maureen, Jyotsna Puri, and Charles Griffiths. 2001. "Predicting the Location of Deforestation: The Role of Roads and Protected Areas in North Thailand" *Land Economics*, May, 77(2): 172-86.
- Chomitz, Kenneth M., Charles Griffiths, and Jyotsna Puri. 1999. "Fuel Prices, Woodlands, and Woodfuel Markets in the Sahel: An Integrated Economic-Ecological Model." In *Trade, Global Policy, and the Environment* ed. Per G. Fredricksson, 101-13. Washington D.C.: The World Bank.
- Cropper, Maureen, Charles Griffiths, and Muthukumara Mani. 1999. "Roads, Population Pressures, and Deforestation in Thailand, 1976-1989" *Land Economics*, February, 75(1): 58-73.
- Cropper, Maureen and Charles Griffiths. 1994. "The Interaction of Population Growth and Environmental Quality," *The American Economic Review*, May, 84(2): 250-4.

WORKING PAPERS

- Walsh, Patrick J., Charles Griffiths, Dennis Guignet, Heather Klemick. 2015. "Adaptation, Sea Level Rise, and Property Prices in the Chesapeake Bay Watershed." *National Center for Environmental Economics Working Paper #15-02*. February.
- Guignet, Dennis, Charles Griffiths, Heather Klemick, Patrick J. Walsh. 2014. "The Implicit Price of Aquatic Grasses." *National Center for Environmental Economics Working Paper #14-06*. December.
- Newbold, Steve, Charles Griffiths, Christopher C. Moore, Ann Wolverton, and Elizabeth Kopits. 2010. "The 'Social Cost of Carbon' Made Simple" *National Center for Environmental Economics Working Paper #10-07*. August.
- Griffiths, Charles, Nathalie B. Simon, and Tracey J. Woodruff. 2009. "Asthma Medication Use and Air Pollution in California: A Cross-Sectional Analysis." *National Center for Environmental Economics Working Paper #09-06*. October.
- Baier, Scott, Mark Clements, Charles Griffiths, and Jane Ihrig. 2009. "Biofuels Impact on Crop and Food Prices: Using an Interactive Spreadsheet" *International Finance Discussion Papers, Number 967*. March.
- Brouhle, Keith, Charles Griffiths, and Ann Wolverton. 2007. "Evaluating the Effectiveness of EPA Voluntary Programs: An Examination of the Strategic Goals Program for Metal Finishers" *National Center for Environmental Economics Working Paper #07-06*. May.
- Griffiths, Charles, Al McGartland, and Maggie Miller. 2006. "A Note on Trasande et al., "Public Health and Economic Consequences of Methylmercury Toxicity to the Developing Brain" *National Center for Environmental Economics Working Paper #06-02*. April.
- Brouhle, Keith, Charles Griffiths, and Ann Wolverton. 2004. "The Use of Voluntary Approaches for Environmental Policymaking in the U.S." *National Center for Environmental Economics Working Paper #04-05*. May.