

BRAY, LARRY G.

PRESENT ADDRESS

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SUMMARY OF QUALIFICATIONS

Dr. Bray's career as a professional economist has spanned the years 1970-2009 and included working as an economist for a large regional bank, for the Union Carbide Corporation at the Oak Ridge National Laboratory (ORNL) in Oak Ridge, Tennessee, for the Tennessee Valley Authority in Knoxville, Tennessee, and as a research economist at the University of Tennessee. He received the Master of Arts and Doctor of Philosophy degrees, respectively, from East Tennessee State University and the University of Tennessee in 1969 and 1980.

At TVA, Dr. Bray managed a planning section which evaluated TVA river-related capital and operation and maintenance needs and also assisted the U. S. Army Corps of Engineers (USACE) with their planning efforts. Notable achievements of the section have included development of a model to predict the impact on railroad rates given barge competition, a state-of-the-art barge costing model, a model that estimates environmental impacts due to modal shifts, and a model that estimates efficiency and fuel tax payments by river. The group also examined the regional impacts of lock and flood control improvements using the REMI model (Regional Economic Models Incorporated.). The TVA planning group assisted the USACE with various economic studies on virtually every navigable channel in the continental United States and on the Great Lakes as well. An analysis of comparative transportation rates was the specialty of the group. At the University of Tennessee, Dr. Bray, teaches regional economics and performs economic research on a variety of topics, including economic impact analysis.

PROFESSIONAL EXPERIENCE:

2006-2009: Research Professor with the University of Tennessee Center for Transportation Research

1976-2006: Economist at the Tennessee Valley Authority, Knoxville, Tennessee

1972-1976: Economist, Union Carbide Corporation, Oak Ridge National Laboratory (ORNL), Oak Ridge, Tennessee

AWARDS AND PUBLIC SERVICE ACTIVITIES

“Commanders Award for Public Service”

Presented August 21, 2002 by Brigadier General Steven R. Hawkins of the U. S. Army Corps of Engineers (USACE)

Fourth highest public service honorary award that may be granted to a private citizen

“Certificate of Appreciation for Patriotic Civilian Service,” Authorized by Stephen Roemhildt in 2006, Commander of the Nashville District of the USACE.

Instructor for the USACE “Professional Associates” program

Chairman of the Inland Water Transportation Committee of the Transportation Research Board

Chaired TRB Plenary sessions (inland waterways and deep water) on “Can the Conflict Between Freight’s Need for Port Access and the Gentrification of Waterfronts be Resolved”? The sessions were held at the 33rd Annual Summer Ports, Waterways, Freight & International Trade Conference (Summer of 2008)

OTHER DATA:

Citizenship: U.S.A.

Hobby: Plays tenor saxophone in blues band

INVITED ACADEMIC ACTIVITIES:

1. Served for number of years on the editorial board for the *Review of Regional Studies*
2. Served as a reviewer for the National Research Council, Transportation Research Board
3. Served for a number of years as a member on the Transportation Research Board’s Committee on Inland Water Transportation.
4. Serves as chair of the Inland Water Transportation Committee of the Transportation Research Board.

EDUCATIONAL BACKGROUND:

Ph.D., Economics, University of Tennessee, 1980

M.A., Economics, East Tennessee State University, 1969

B.S., University of Tennessee, 1967

RESEARCH:

Yun, Joengran; Miller, Terry L.; and Bray, Larry G. "Air Quality Consequences of a Freight Modal Shift Due to the Emsworth, Dashields, and Montgomery Locks Closures in the Pittsburgh Area," 2008, unpublished paper

Bray, Larry G., *The Regional Importance of Reelfoot Lake*, Center for Transportation Research and the County Technical Assistance Service, 2007.

Dager, Chrisman A.; Bray, Larry G.; Murphree, C. Michael; Leibrock, Charlotte Ann. "Elasticity of Demand for Barged Corn Shipments on the Upper Mississippi River-Illinois Waterway," 2005, Transportation Research Board, *Journal of the Transportation Research Board*.

Tennessee Valley Authority Reservoir Operations Study, ROD May 2004. Navigation staff evaluated the impacts on commercial navigation and residential property values given a range of tributary reservoir delayed drawdowns.

Staff report. "Regional Impacts of Proposed Navigation and Ecosystem Improvements on the Upper Mississippi River and Illinois Waterway," and "An Economic Evaluation of Proposed Flood Protection Plans on the Upper Mississippi River and Illinois Waterway" for the Rock Island District of the USACE, 2004

Bray, Larry G.; Dager, C.; Burton, M.L. "Willingness to Pay for Water Transportation in the Ohio River Basin," 2004, Transportation Research Board, *Transportation Research Record, Issue Number 1871*.

Bray, Larry G.; Dager, C.A.; Henry, R.L.; Koroa, M.C. "River Efficiency, Fuel Taxes, and Modal Shifts: Tennessee Valley Authority Model Assists Policy Makers," 2002, Transportation Research Board, *TR News*

Chatterjee, A.; Wegmann, F.J.; Jackson, N.M.; Everett, J.D.; Bray, L.G. "Effect of Increased Truck Traffic from Chickamauga Lock Closure," 2001, Transportation Research Board, *Transportation Research Record*.

RECENT INVITED PRESENTATIONS

"The Regional Importance of Reelfoot Lake." 2008 UEDA Award of Excellence Finalist, 2008 UEDA meetings in St. Petersburg, Florida.

"Pittsburgh Area Lock Closure Externality Study," U. S. Army Corps of Engineers Planning Community of Practice Conference, San Antonio, Texas, 2008.

"Diesel Fuel Prices and National Energy Policy," Tennessee Trucking Association, 2008.

“Externalities and Project Approval,” Smart Rivers Conference, Louisville, Kentucky, 2007.

“Elasticity of Demand for Barged Corn Shipments on the Upper Mississippi River and Illinois Waterways,” Meet the Author poster session, TRB 84th Annual meeting, Washington, D. C., 2005.

“Elasticity of Demand for Barged Corn Shipments on the Upper Mississippi River and Illinois Waterways,” 7th Marine Transportation System Research & Technology Coordination Conference; National Academy of Sciences Building, Washington, D. C., 2004.

“Willingness to Pay for Barge Transportation in the Ohio River Valley”. U. S. Army Corps of Engineers economists’s conference in Baltimore, Maryland. March 2004.

“Willingness to Pay for Barge Transportation in the Ohio River Valley”, TRB 83rd Annual Meeting, Washington, D.C., January 2004.

“Mid-America Port Study, “ U. S. Army Corps of Engineers, Rock Island District, 2002 on the *U. S. Mississippi* in the vicinity of Quincy, Illinois.

“Impact of a Modal Shift: Measuring the Difference in Quality of Life,” St Louis Agricultural Businessmen’s Club, January 22, 2001.

“Impact of a Modal Shift: Measuring the Difference in Quality of Life.” National Waterways Conference in St. Louis, Missouri (September, 2000).