

Mark W. Lisney

Economics - Navigation

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QUALIFICATIONS

Education

B.S. Civil and Environmental
Engineering
University of Wisconsin, 1982



EXPERTISE

Mr. Lisney has been involved in shallow draft transportation studies utilizing probabilistic simulation models, lock performance simulation models, equilibrium models, statistical techniques and navigation data bases to estimate National Economic Development benefits and conduct other navigation economic analysis. Mr. Lisney's specialty is discrete event simulation of the locking process. He has contributed significant enhancements to this process by adding capability to model inter-tow interference at multi-chamber locks, accounting for closure feedback on demands, and improving the simulation process itself.

REPRESENTATIVE EXPERIENCE

March 2005 to Present, Civil Engineer, Group R, U.S. Army Corps of Engineers - Institute for Water Resources, Stationed in Louisville KY

As of December 2005, Project Manager on development of the Navigation System Simulation model (NaSS), WAM Batch Processing Program (WAMBPP), LPMS Animation, and Towboat Operating Area Analysis.

Also serving as member of LRD Lock Maintenance Standard development team.

August 1985 to March 2005, Civil Engineer, Planning, Programs and Project Management Division, Planning Branch, U.S. Army Corps of Engineers – Louisville District

Involved in shallow draft transportation studies utilizing probabilistic simulation models, lock performance simulation models, equilibrium models, statistical techniques and navigation data bases in accordance with ER 1105-2-100 to estimate National Economic Development benefits. Has also been involved in other navigation economic analysis. Specialist in estimating the relationship between demand and transit time at navigation locks. FORTRAN, SIMSCRIPT, and MS Visual Basic programming skills. Use MS EXCEL, MS Visual Basic, MS ACCESS, WAM, Expert Fit, and other software packages to analyze data and to model and analyze transportation systems. Use MS Word and MS PowerPoint software for analysis briefings and technical documentation.

Did capacity analysis for McAlpine Feasibility Study, Marmet Feasibility Study, Myers/Greenup Interim Feasibility Study, and Ohio River Main Stem System Study. Did benefit-cost analysis for McAlpine Economic Update. Modified GLLAST model and conducted costing analysis for Great Lakes Reconnaissance Study. Involved in the early development and execution of the NAVPAT model. Did economic analysis for the PRIP Report for the Gate Changeout System study. Modified the LRD Equilibrium model to include the effects of various duration chamber closures in the equilibrium analysis. Team member of the ORMSS Myers / Greenup Interim Feasibility Report.