

# Little River Research & Design

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**Resume**  
**Steve Gough**

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## Education

Continuing education coursework, University of Illinois-Champaign-Urbana, 1992 - 1996.  
M.S. Forestry, University of Missouri-Columbia, 1986.  
B.S. Forestry, University of Arkansas-Monticello, 1981.

## Professional Experience

*1991-present:* Principal and Fluvial Geomorphologist, *Little River Research & Design*. Provide river management and research consultation, including studies of river process and habitat interaction. Assess sites for protection, enhancement, restoration of environmental values, and urban stormwater management. Evaluate stream habitat, and design, evaluate and monitor stream habitat protection, restoration and bioengineering projects. Provide design, support and review to civil engineers for river engineering, including urban stormwater management and construction supervision. Map and monitor geomorphic and habitat change in river systems. Produce and present short courses on fluvial process, river management, restoration, and bioengineering. Project experience includes lead role in detailed assessment of over 15 miles of urban channel, and geomorphological analysis and design for over \$3.8 million in stormwater and recreation projects. Played key role in project conceptualization and grant writing for over \$1 million in EPA 319 funding for Mackinaw River and Fishpot Creek projects.

*1986-1991:* Stream Specialist, *Missouri Department of Conservation (MDC)*. Served as scientific and technical advisor for a statewide river conservation program. Conducted interdisciplinary research and served as liaison with and advisor to private and government organizations. Designed, installed and monitored bioengineering and habitat restoration projects. Developed policy and reviewed project designs for both MDC projects and water quality permitting. Produced and conducted workshops for education of both laypeople and professionals. Held statewide responsibility for technical oversight and development of bioengineering methods. Developed moveable bed model stream, now widely used in the Midwest, that proved highly effective in demonstrating to laypeople the negative effects of inchannel gravel mining, channelization, and riparian forest mismanagement.

*1982-1983:* Research Assistant, University of Arkansas Department of Forestry. Collected and analyzed hydrologic data for study of logging and road construction effects on water quality in the Ouachita Mountains of Arkansas.

## Affiliations

American Fisheries Society

American Geophysical Union

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## Selected Publications and Special Recognition

Gough, S.C. 1994. *Geomorphic reconnaissance and draft management strategy for the Mackinaw River Ecosystem, Illinois*. The Nature Conservancy, Peoria, Illinois Field Office.

Gough, S.C. 1997. *Geomorphic stream habitat assessment, classification, and management recommendations for the Mackinaw River Watershed, Illinois*. The Nature Conservancy, Central Illinois Field Office, Peoria, Illinois.

Gough, S.C. 1997. *Stream classification and assessment*. The Nature Conservancy, Central Illinois Field Office, Peoria, Illinois.

Gough, S.C. 1999. *Conservation Stormwater Management Reconnaissance, Midland Creek and Tributaries above I-270, Maryland Heights, Missouri. Part 1: Geomorphic Assessment*. Little River Research & Design, St. Louis, Missouri. Unpublished report.

Gough, S.C. 1999. *Geomorphological Reconnaissance, Fee Fee Creek and Tributaries south of Dorsett Road, Maryland Heights, Missouri*. Little River Research & Design, St. Louis, Missouri. Unpublished report.

St. Louis Chapter of the American Society of Civil Engineers (ASCE) *Outstanding Civil Engineering Achievement Award, 2000*. For natural channel design and bioengineering at a bridge crossing in Maryland Heights, Missouri.

St. Louis Chapter of the American Society of Civil Engineers (ASCE) *Engineering Achievement Award, 2003*. For design at the Columbia Bottom Conservation Area, at the confluence of the Missouri and Mississippi Rivers, Missouri.