

AISC/MBMA STEEL DESIGN GUIDE NO. 16

FLUSH AND EXTENDED MULTIPLE-ROW MOMENT

END-PLATE CONNECTIONS



Thomas M. Murray

Tom Murray is Montague-Betts Professor of Structural Steel Design, The Charles E. Via Jr. Department of Civil and Environmental Engineering at the Virginia Polytechnic Institute and State University. He joined Virginia Tech in 1987 after 17 years with the University of Oklahoma, the last year of which was spent as a Distinguished Visiting Professor at the U.S. Air Force Academy. After

receiving his BS degree from Iowa State University in 1962, he was employed as an Engineer Trainee with Pittsburgh-Des Moines steel company, Des Moines, Iowa. In 1966 he received his MS degree from Lehigh University, and in 1970 he received a Ph.D. in Engineering Mechanics from the University of Kansas.

He has served on several national committees in the American Society of Civil Engineers and number of other professional organizations. In 1977, The American Institute of Steel Construction presented him with a special citation for contributions to the art of steel construction and in 1991 with the T. R. Higgins Lectureship Award. Murray is a member of both the American Institute of Steel Construction and the American Iron and Steel Institute specification committees, as well as, the AISC Committee on Manuals and Textbooks. He has excellence in teaching awards from both the University of Oklahoma and Virginia Tech. In February 2002, he was elected to the National Academy of Engineering.



W. Lee Shoemaker

W. Lee Shoemaker joined the MBMA Staff in February 1994 as the Director of Research and Engineering. He received his Bachelor's Degree and Ph.D. in Civil Engineering from Duke University and his Master's Degree in Civil Engineering from Tulane University.

From 1975 through 1981, he was a structural engineer with Avondale Shipyards in New Orleans, Louisiana. From 1981 through 1983, he was a Graduate Teaching and Research Assistant at Duke University in Durham, North Carolina. In 1983, Dr. Shoemaker joined the Civil Engineering Faculty at Auburn University in Auburn, Alabama. In 1989, he returned to

industry as Chief Engineer at Cornell Crane Manufacturing in Woodbury, New Jersey and later was promoted to Vice President of Manufacturing.

Shoemaker is a registered professional engineer in four states (LA, AL, NJ, PA). He was recognized by the Alabama Society of Professional Engineers as Young Engineer of the year in 1986 and as Outstanding Civil Engineering Faculty by the Auburn students in 1985.

Shoemaker is a member of several technical committees including ASCE 7 Committee on "Minimum Design Loads for Buildings and Other Structures", ASTM Committee E6 on "Performance of Buildings", AISC Specifications Committee, AISC Research Committee and AISI Committee on Specifications for the Design of Cold-Formed Steel Structural Members.



Emmett A. Sumner

Emmett Sumner is currently an Assistant Professor North Carolina State University in Raleigh, North Carolina. He is working to complete his Ph.D. from Virginia Tech and should receive his degree in May 2003. In 1993, he received his B.S. degree from the University of North Carolina at Charlotte, and in 1995, he received his M.S. degree from Virginia Tech.

Before returning to Virginia Tech to pursue his Ph.D., he worked as an engineer in Columbia, South Carolina for the LPA Group, Inc., where he designed bridge and transportation structures. He later worked for Stevens and Wilkinson of South Carolina, Inc., designing commercial and industrial building structures. As a registered professional engineer, he has been a consultant to industrial corporations and engineering firms.

His research experience includes the design, analysis, and full-scale testing of steel roof systems, rigid knee joints, tapered members, end-plate moment connections, and rigid gable frames used in pre-engineered metal building systems. The primary focus of his Ph.D. research is the analysis and design of end-plate moment connections subject to seismic forces.

He serves as a member of the Committee on Connections for the American Society of Civil Engineers and is an active member of several other professional organizations. During his tenure as a Ph.D. candidate at Virginia Tech, he has received several fellowships including the prestigious Via Ph.D. Scholar fellowship and the Metal Building Manufacturers Association fellowship.

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