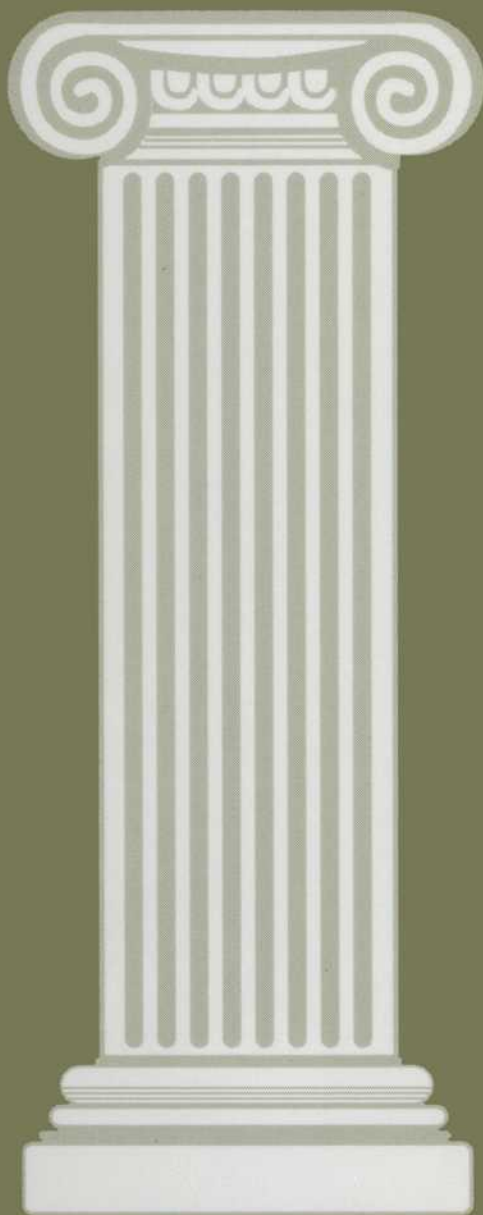


# MASONRY



## Design and Construction, Problems and Repair

Melander/Lauersdorf,  
editors



STP 1180

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# ***Masonry: Design and Construction, Problems and Repair***

*John M. Melander and Lynn R. Lauersdorf, editors*

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The quality of the papers in this publication reflects not only the obvious efforts of the authors and the technical editor(s), but also the work of these peer reviewers. The ASTM Committee on Publications acknowledges with appreciation their dedication and contribution to time and effort on behalf of ASTM.

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# Foreword

This publication, *Masonry: Design and Construction, Problems and Repair*, contains papers presented at the symposium of the same name held in Miami, FL on 8 Dec. 1992. The symposium was sponsored by ASTM Committees C-1 on Cement, C-7 on Lime, C-12 on Mortars for Unit Masonry, and C-15 on Manufactured Masonry Units. Lynn R. Lauersdorf, State of Wisconsin, and John M. Melander, Portland Cement Association, presided as symposium co-chairmen, and were editors of this publication.

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R.J. Kenney

# Overview

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These proceedings are the seventh in a series of ASTM symposia on masonry that began in 1974. Committee C-1 on Cement formally joined with Committees C-7 on Lime, C-12 on Mortars for Unit Masonry, and C-15 on Manufactured Masonry Units in sponsoring this symposium. Eighteen papers were presented orally at the symposium and the other ten were presented in poster sessions. The symposium continued to provide a forum for the dissemination and exchange of information and experiences related to all facets of masonry.

Special Technical Publications (STP) containing papers presented at five of the six preceding masonry symposia were also published by ASTM. The list of these symposia follows.

- *STP 589—Masonry: Past and Present*, from the symposium held June 25, 1974, in Washington, D.C., was the first in this series. It provided a basis for future symposia.

The second symposium in this series was held June 29, 1976, in Chicago, IL. Twelve papers were presented, but an STP was not published from this symposium. Several of the papers appeared in ASTM's *Journal of Testing and Evaluation*.

- *STP 778—Masonry: Materials, Properties, and Performance*, from the symposium held Dec. 9, 1980, in Orlando, FL, covered the third in the series.
- *STP 871—Masonry: Research, Application, and Problems*, from the symposium held Dec. 6, 1983, in Bal Harbour, FL, covered the fourth in the series. It was dedicated to J. Ivan Davison.
- *STP 992—Masonry: Materials, Design, Construction, and Maintenance*, from the symposium held Dec. 2, 1986, in New Orleans, LA, covered the fifth publication in the series.
- *STP 1063—Masonry: Components to Assemblages*, from the symposium held Dec. 5, 1989, in Orlando, FL, covered the sixth in the series. It was dedicated to Alan H. Yorkdale.
- *STP 1180—Masonry: Design and Construction, Problems and Repair*, from the symposium held Dec. 1992, in Miami, FL, covered the seventh and latest in the series that continues.

Russell H. Brown, Clemson University, John T. Conway, Holnam, Inc., Kenneth A. Gutschick, National Lime Association, Harry Harris, Ash Grove Cement Co., George Judd, consultant, and John H. Matthys, University of Texas at Arlington, served as the symposium steering committee. Russell H. Brown, George Judd, Harry A. Harris, and John H. Matthys each chaired the respective oral presentation sessions titled: Design and Detail, Installation and Materials, Testing and Evaluation, and Strategies and Techniques. The 28 papers presented at the symposium and published in this STP were peer-reviewed by 90 ASTM committee members from C-1, C-7, C-12, and C-15.

Numerous ASTM staff members provided needed guidance. Thanks are extended to these as well as the authors and all others who made the symposium and proceeding publication a successful reality.

The symposium co-chairmen, session chairmen, and presenters are pictured on the following pages.

We look forward to the next ASTM masonry symposium scheduled for Dec. 5, 1995, in Norfolk, VA.

*John M. Melander*

Portland Cement Association, symposium co-chairman and editor.

*Lynn R. Lauersdorf*

State of Wisconsin, symposium co-chairman and editor.

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