

Selected Technical Papers



STP 1557

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# Lime:

Building on the 100-Year Legacy  
of The ASTM Committee C07

**Editors:**

**Margaret L. Thomson**

**Joseph H. Brisch**

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Joseph H. Brisch



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## Foreword

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THIS COMPILATION OF *Selected Technical Papers*, STP1557, *LIME: Building on the 100-Year Legacy of ASTM Committee C07*, contains peer-reviewed papers that were presented at a symposium held June 28, 2012 in San Diego, CA. The symposium was sponsored by ASTM International Committee C07 on Lime.

The Symposium Co-Chairpersons and STP Co-Editors are Margaret L. Thomson, Lhoist North America, Fort Worth, TX, USA and Joseph H. Brisch, Manitowoc, WI, USA.



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## Overview

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The first standard developed by the newly formed ASTM C7 Committee on Lime in 1912 was ASTM C5 Standard Specification for Quicklime for Structural Purposes. It was first approved in 1913 and is one of the oldest active standards for ASTM. It reflects a time when construction on a large scale had begun in North America and the characterization of construction materials was essential to ensuring performance and value in use. These expectations remain relevant and have expanded to other uses for lime and limestone as reflected in the current scope of the committee:

*To stimulate research and development; facilitate communication among producers, users, and other interested parties; and formulate specifications, practices, methods of test, and terminology relating to lime (quicklime, hydrated lime hydraulic lime and associated calcareous materials) and limestone used for industrial, environmental, chemical, construction, and agricultural applications.*

The 16 papers presented in this STP are diverse in their scope. They include the more traditional uses of lime in asphalt, soil stabilization, and paper manufacturing. Updates on common test methods for XRF analysis and free moisture are proposed. The presentation of several papers on environmental applications of lime and limestone and discussion of pore size and pore volume measurement are an indication of the increasing role of lime and limestone in flue gas treatment. The paper on lime kiln dust also shows the move of the industry towards zero-waste.

The Committee wants to thank those that came before us. We believe we go forward into the next century knowing we have a rich legacy of dedication and passion for the work, and a solid foundation on which to continue to build.

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