



The Association for Preservation Technology International
Association pour la préservation et ses techniques

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For further information contact:
APT 217.529.9039 or info@apti.org
Diana S. Waite, Editor, APT Bulletin
Melissa Miscevic Bramble, Project Manager, APT Bulletin
518.426.5935 or info@mountidapress.com

Examining Iron and Steel in the Latest *APT Bulletin*

Originating from symposia held by the Delaware Valley Chapter of the Association of Preservation Technology, this issue, edited by Richard I. Ortega and Justin M. Spivey, begins with a discussion of the fundamental differences between iron and steel. In “Metallurgy 101,” Dr. Alan Pense delivers a short course in how compositional differences at the molecular level determine the properties of these materials. “Hidden Intricacies: The Development of Modern Building Skeletons” by Donald Friedman proposes a typology based on the structural functions of masonry and iron or steel framing. “Masonry Cladding of Iron- and Steel-Frame Buildings, 1880-1940: A Destructive Relationship” by Richard Ortega discusses the inherent flaws in masonry-clad steel construction. “The Potential for Application of Cathodic Protection in Masonry-Clad, Steel-Frame Buildings” by Stephen Kelley, Matthew Novesky, and Gregory Dowell ties the historical strands of the preceding papers into an application of impressed current cathodic protection in historic-preservation practice. The final two papers address less typical uses of iron and steel. Joseph Sembrat, Justine Bello, and Patricia Miller provide a case study of the conservation of an iron “object” in “Conservation of the RMS *Titanic* ‘Big Piece’: a Case Study and Critical Evaluation.” “Wrought-Iron Wire Cables” by Donald Sayenga is an international survey of how this material was developed and used, including critical differences from the steel wire that supplanted it.

This issue also contains review of two books assembled by the book review editor, Frances Gale: *Sustainable Renovation, Strategies for Commercial Building Systems and Envelope* by Lisa Gelfand and Chris Duncan and *Stewardship of the Built Environment* by Robert A. Young.

Starting with this issue of the Bulletin, a regular feature by Mike Jackson will highlight items from the APT Building Technology Heritage Library collection related to the content of each issue. The BTHL collection currently has several thousand catalogs.

The Association for Preservation Technology is the only international organization dedicated solely to promoting the best technology for conserving historic structures and their settings. Founded in 1968 in Québec as a joint venture between Canadian and United States preservationists, APT provides members with benefits that include publications, networking, conferences, training courses, and student scholarships. As a benefit of membership, APT members can search, browse, download, and print full-text PDF versions of all past Bulletin articles on JSTOR, an international online digital archive.

The *APT Bulletin*, a peer-reviewed, scholarly journal, is a valued source for state-of-the-art information on preservation technology. Published three times a year by APT, the Bulletin examines all aspects of preservation technology in feature articles and book reviews, keeping readers at the leading edge of the field.

Mount Ida Press, which edits and produces the *APT Bulletin*, specializes in high-quality publications on history, architecture, and building technology. For further information about the

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