

APT Bulletin

THE JOURNAL OF
PRESERVATION TECHNOLOGY

Volume XLIII
Number 1

Published by
Association for Preservation Technology
International
Association pour la préservation
et ses techniques

BULLETIN EDITOR
and ADVERTISING
Diana S. Waite, Editor
Melissa Mišćević Bramble, Project Manager
Sandra Castro-Baker, Editorial Assistant
Mount Ida Press
111 Washington Avenue
Albany, NY 12210
Tel.: 518-426-5935
Fax: 518-426-4116
E-mail: info@mountidapress.com

MEMBERSHIP INFORMATION,
PUBLICATIONS ORDERS, and
OTHER INQUIRIES
*Categories of membership are listed on
page 62.*
APT
3085 Stevenson Drive, Suite 200
Springfield, IL 62703
Tel: 217-529-9039
Fax (toll-free): 888-723-4242
www.apti.org

APT 2012 Annual Conference
Charleston, South Carolina, Sept. 30 - Oct. 3

COPYRIGHT
Articles from the *Bulletin* are copyrighted
and may be reprinted only with permission
of the editor. Please submit requests in writing
to Diana S. Waite, Mount Ida Press,
111 Washington Ave., Albany, NY 12210.

The *Bulletin* is indexed on APT's Web site,
www.apti.org, and in *Art Index*, *Architectural
Periodicals Index*, *Art and Architecture Tech-
nical Abstracts*, *Avery Index to Architectural
Periodicals*, *Garden Literature*, *America: His-
tory and Life*, *Historical Abstracts*, *Ulrich's*,
and the *University of Maryland-National
Trust Library Index to Historic Preservation
Periodicals*. Past issues of the *Bulletin* are
available on JSTOR, the Scholarly Journal
Archive.

Responsibility for the methods and/or mate-
rials described herein rests solely with the
contributors and should not be considered
official statements or endorsements of
APTI.

© 2012 by Association for Preservation
Technology International. ISSN 00449466

Postmaster: Send address changes to APT,
3085 Stevenson Drive, Suite 200, Spring-
field, IL 62703

Cover: Rainbow Bread Bakery, Denver,
Colorado, Milo S. Ketchum, engineer, con-
structed 1962. This structure is an example of
an undulating shell. The undulations create a
simple roof section capable of moderate spans
without interior support. Photograph by Tom
Lundin, 2010.

Printing: Fort Orange Press.
Printed in U.S.A.

All *Bulletin* articles undergo peer review.



BULLETIN

INTERNATIONAL

Conserving the Future: The Need for Sustainability in City Planning and Preservation	3
Mark Holland	
Comparative Laboratory Evaluation of Conservation Mortars	7
Jennifer Schork, Norman R. Weiss, and John Walsh	
Philadelphia Museum of Art Exterior Renovations Project: A Tale of Two Metals	15
Michael Holleman and Nan Gutterman	
Exploring the California Ranch Precinct of Hamilton East, New Zealand	25
Ian Bowman	
Lime-Water Consolidation Effects on Poor Lime Mortars	31
Miloš Drdácký and Zuzana Slížková	
Milo S. Ketchum and Thin-Shell Concrete Structures in Colorado	39
Thomas E. Boothby, M. Kevin Parfitt, and Mark Ketchum	
Tracing the Historical Indoor Climate of a Swedish Church, c. 1800-2000	49
Mattias Legné	
Book Reviews	57
Frances Gale, Book Review Editor	
Directory of Advertisers	59
Author Guidelines	60
APT Membership Information	62