

APT Bulletin

THE JOURNAL OF
PRESERVATION TECHNOLOGY

Volume XLIV
Number 2-3

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 79.*
APT
3085 Stevenson Drive, Suite 200
Springfield, IL 62703
Tel: 217-529-9039
Fax (toll-free): 888-723-4242
www.apti.org

APT 2013 Annual Conference
New York City, October 11-15

APT 2014 Annual Conference
Quebec City, October 26-29

APT 2015 Annual Conference
Kansas City, November 1-5

COPYRIGHT

Articles from the *Bulletin* are copyrighted
and may be reprinted only with permission
of the editor. Please submit requests in writ-
ing 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.

© 2013 by Association for Preservation
Technology International. ISSN 00449466

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

Cover: M/B Bar, twister square-steel bar
reinforcement, Plymouth Building, Minnea-
polis, Minn., April 1, 1910. Courtesy of
Historic Plymouth Building, LLC.

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

All *Bulletin* articles undergo peer review.

Repositioning Craft Education and Training to Reconnect Artisans to Designers	3
Gerard Lynch	
Structural Assessment of Aging Timber Piles on the Banks of the Mississippi River	15
Mark R. Chauvin and Arne P. Johnson	
Understanding the "World's Largest" All-Reinforced-Concrete Office Building	23
Greg Donofrio and Meghan Elliott	
Nondestructive Evaluation of Brick Masonry Using Air-Coupled Impact-Echo Analysis	35
Nicole Trujillo, Thomas E. Boothby, and Erik Valentino	
Integrating Preservation and Hazard Mitigation for Unreinforced Masonry Buildings in Seattle	43
Manish Chalana and Jeana Wisner	
Greening Deterioration: Soft Capping as Preventive Conservation for Masonry Ruin Sites	53
Alex B. Lim, Frank G. Matero, and Michael C. Henry	
The 2006 Earthquake Project at Pu'ukoholā Heiau National Historic Site, Hawai'i	63
Adam Johnson, Mary Slater, Laura Carter Schuster, and Mary Jane Naone	
Lee Nelson Book Award, Honorable Mention: Saving Wright	71
Jeffrey M. Chusid	
Book Reviews	73
Frances Gale, Book Review Editor	
Directory of Advertisers	74
APT Building Technology Heritage Library	77
Mike Jackson	
APT Membership Information	79

mineral architectural preservation and restoration product systems



since 1878



KEIM is known worldwide as the leading specialist in mineral architectural protection and restoration product systems, supplying highly-developed solutions for exterior and interior surfaces for the last 130 years. Sustainability is the guiding principle underlying all our business activities and is the reason why we are convinced of the superiority of mineral building products. People do business with KEIM because they desire long-term sustainable solutions that preserve and protect existing structures without limiting the options of future generations.

Coatings Durability, Beauty, and Long Life

KEIM is synonymous with silicate paints for a good reason – KEIM invented silicate coatings.

What makes KEIM so different?

KEIM uses only natural inorganic mineral pigments that are stable and will not fade.

KEIM's silicate paints, stains, and coatings use a special silicate binder system that penetrates the substrate and in a chemical reaction creates permanent covalent bonds.

Green and sustainable, KEIM has low to no VOC's due to its mineral binder and inorganic pigments. The long life and simple powerwash prep required before repainting means

no stripping, less labor, and no landfill waste.

Unlike paints that use elastomeric films as binders, KEIM does not attract dirt resulting in clean facades.

Safety, another benefit of KEIM. When exposed to fire, KEIM paints do not burn, produce zero smoke, and no toxins are given off; lives can be saved.

Because of KEIM's durability, it is specified for the harshest weathering conditions in nature.

What is new with KEIM? Call us to learn more about KEIM's photocatalytic coatings or to schedule a KEIM AIA-CES/HSW presentation.

the original silicate coating since 1878

KEIM MINERAL COATINGS
of America, Inc.

10615 Texland Blvd # 600
Charlotte, NC 28273
USA

keim-info@keim.com

Toll Free 866-906-5346
Tel 704-588-4811
Fax 704-588-4991

www.keim.com