



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

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***APT Bulletin* Special Issue Climate Change and Preservation Technology**

The spring 2016 issue of the *APT Bulletin: The Journal of Preservation*

Technology examines the intersection of climate change and historic preservation at a time when efforts to address the changing global environment—on both large and small scales—are especially critical. While U.S. President Barack Obama, Canadian Prime Minister Justin Trudeau, and other global leaders have recently set an example in moving forward to implement international agreements to lower greenhouse-gas emissions, the authors who contributed to this issue of the *APT Bulletin* emphasize the importance of also implementing effective solutions and preventative measures at a smaller scale.

From individual historic interiors and artistic works to large heritage sites and historic districts, the articles in this issue indicate the importance of taking action now to protect important cultural elements from the damage that can be caused by the changing climate. This special issue, organized by guest editor Nancy A. Rankin, AIA, LEED AP, and APT's Technical Committee on Sustainable Preservation, features articles that cover a variety of risks presented by climate change to built heritage and cultural landscapes, as well as an array of geographic areas, from southern England to Canada's Northwest Territories.

In her introduction to the issue, Rankin discusses “the evidence-based anticipation of future change” that is crucial for preservationists dealing with the maintenance of cultural resources that can suffer from both direct and indirect, gradual and extreme effects of a changing climate. In “Water Management for Traditional Buildings: Adaptation for a Changing Climate,” Roger Curtis discusses the effects that climate-change-driven increases in rainfall can have on traditional buildings in Scotland and how the use of traditional building materials and architectural detailing can help mitigate these problems. The cover story, “Permafrost Thaw and Aboriginal Cultural Landscapes in the Gwich’in Region, Canada,” follows the work of a group of scientists in the Northwest Territories, led by Thomas D. Andrews, as they map a historically significant indigenous cultural landscape and predict sectors most at risk from permafrost thaw. Another article, by Benjamin Curran, Michael Routhier, and Gopal Mulukutla, examines New Hampshire’s Strawberry Banke and the threat posed by encroaching water and salt due to sea-level rise.

Next, Peter and Caroline Brimblecombe discuss humidity and temperature changes that may affect historic interiors and artworks in southern England in “Climate Change and Non-mechanically Ventilated Historic Interiors.” Ann D. Horowitz’s article looks at several locations on the Eastern Seaboard of the U.S. and the many types of preventative adaptation strategies, such as seawalls and dune building, that can be used to protect historic districts from sea-level rise, as well as from increasingly damaging storms such as Hurricanes Katrina and Sandy. Finally, in “Energy Retrofit of Older Houses in Hot and Humid Climates,” William Dupont and his team highlight four case studies demonstrating the effectiveness of building retrofits in North American climate zone 2.

This issue's book reviews, collected by Book Review Editor Frances Gale, features a report by Susan D. Turner on Vidar Lerum's *Sustainable Building Design: Learning from Nineteenth-Century Innovations* and a review by Alice L. Sloan and Michael C. Henry of *Historical Perspectives on Preventive Conservation*, edited by Sarah Staniforth.

Mike Jackson's column on the APT Building Technology Heritage Library highlights four catalogs from the BTHL that feature products geared towards improving energy efficiency—insulating materials, more efficient storm windows, and window and door weather stripping.

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 U.S. preservationists, APT provides members with benefits that include publications, networking opportunities, conferences, training courses, and student scholarships. As a benefit of membership, APT members can, at no cost, search, browse, download, and print full-text PDF versions of past *Bulletin* articles on JSTOR, an international online digital archive. Visit <http://www.apti.org> for more information.

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 *APT Bulletin*, please contact the editorial office in Albany, New York, at 518.426.5935 or at info@mountidapress.com.

Contents

Editor's Note

Diana S. Waite

Guest Editor's Note

Nancy A. Rankin

Water Management for Traditional Buildings: Adaptation for a Changing Climate

Roger Curtis

Permafrost Thaw and Aboriginal Cultural Landscapes in the Gwich'in Region, Canada

Thomas D. Andrews, Steven V. Kokelj, Glen MacKay, Julie Buysse, Ingrid Kritsch, Alestine Andre, and Trevor Lantz

Sea-Level Rise Vulnerability Assessment of Coastal Resources in New Hampshire

Benjamin Curran, Michael Routhier, and Gopal Mulukutla

Climate Change and Non-mechanically Ventilated Historic Interiors

Peter Brimblecombe and Caroline Brimblecombe

Planning before Disaster Strikes: An Introduction to Adaptation Strategies

Ann D. Horowitz

Energy Retrofit of Older Houses in Hot and Humid Climates

William Dupont, Hazem Rashed-Ali, Randall Manteufel, Thomas Thomson, and Levi Sancluc

Book Reviews

Frances Gale, Book Review Editor

APT Building Technology Heritage Library

Mike Jackson

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