

# Mould and Decay

## Books and Research Reports

Ashton, H.E.

*Canadian Building Digests, CBD-124*

Ottawa: National Research Council of Canada, Division of Building Research

1970

“Biological attack may be defined as an assault by any living organism on an object either dead or alive. This is a wide-ranging definition that places no restriction on the type of attacker. The meaning of biological attack is generally confined to the activities of some of the lower forms of plants and small animals. These together with how they affect organic building materials, are discussed in this Digest.”

Available at: BCIT, VPL, UBC, NRC-IRC

Baker M.C.

*Canadian Building Digests, CBD-111*

Ottawa: National Research Council of Canada, Division of Building Research

1969

“Wooden objects have been recovered from the tombs of ancient kings in a perfect state of preservation, and wooden roof structures have often lasted for centuries without deterioration. Many old wooden implements and pieces of furniture in homes and museums are as strong and serviceable today as they were when made sometimes hundreds of years ago. Pile foundations, too, in water and in soil, demonstrate the durability of wood.”

Available at: VPL, UBC, NRC-IRC

Canada Housing and Mortgage Corporation

*Clean-up Procedures for Mold in Houses*

Ottawa: Canada Housing and Mortgage Corporation

1993

“Many people are sensitive to mold. Common in many homes, mold not only has an unpleasant odour but it can cause or aggravate health problems such as allergies and asthma. This handy booklet gives a thorough explanation of how to rid your home of mold.”

Available at: BCIT, VPL, CMHC

Canada Housing and Mortgage Corporation

*Condominium Owners' Guide to Mold*

Ottawa: Canada Mortgage and Housing Corporation

2001

“This guide is an eight-page booklet explaining what mold is, its dangers, and how to get rid of mold.”

Available at: BCIT, VPL, CMHC

Canada Mortgage and Housing Corporation

*Mold in Housing: An Information Kit for First Nations Communities*

Ottawa: Canada Mortgage and Housing Corporation

2001

“Authored by Canada Mortgage and Housing Corporation, Health Canada and Indian and Northern Affairs Canada. Useful for anyone, not just First Nations/Native Americans. Addresses what to do about mold, in layperson's language.”

Available at: CMHC

Canada Mortgage and Housing Corporation

*Effectiveness of HEPA Vacuuming on Mold in Houses*

Ottawa: Canada Mortgage and Housing Corporation

2009

“This Research Highlight details the outcome of CMHC studies investigating the effectiveness of vacuum cleaners equipped with HEPA filters in reducing levels of fine dust in residential settings. The vacuuming protocol developed for these studies demonstrated that a vacuuming program using a HEPA filter-equipped vacuum cleaner could lower dust loading in the study homes. It was also found that, in houses with mold problems, vacuuming with a HEPA filter equipped vacuum cleaner prior to remediation can help reduce the risks associated with mold exposure.”

Available at: CMHC

Forintek Canada Corp and UBC School of Occupational and Environmental Hygiene

*Discolorations on Wood Products: Causes and Implications*

Vancouver: Forintek Canada Corp.

2001

“Why is construction lumber sometimes discoloured and what does this mean? this fact sheet assists buyers and users of wood in understanding the nature of wood discolorations and deciding whether or not action is required”

Available at: Forintek Canada Corporation

Levy, M.P.

*Guide to the Inspection of Existing Homes for Wood-Inhabiting Fungi and Insects*

: US Department of Housing and Urban Development

1979

“A well illustrated booklet which would be invaluable to anyone inspecting buildings for decay. Not as comprehensive as the British Research Establishment (BRE) publication but more relevant to North American conditions.”

Available at: Canadian Wood Council

Morris, P.I.

*Understanding Biodeterioration of Wood in Structures*

Vancouver: Forintek Canada Corporation

1998

“Improvements to design and construction are the province of architects, engineers, building

scientists, and construction trades. However, these professions have not always had ready access to knowledge of the factors that induce decay. This document seeks to provide the essential basic knowledge and to direct the reader to appropriate reference works for more detailed information.” Available at: Forintek Canada Corporation, Canadian Wood Council

New York City Department of Health  
*Guidelines on Assessment and Remediation of Fungi in Indoor Environments*  
2000: Bureau of Environmental and Occupational Disease Epidemiology

“Covers health issues and provides a protocol for assessment and remediation. Similar in scientific approach to the Health Canada document, however much shorter.”  
Available at: <http://www.nyc.gov/html/doh/html/epi/moldrpt1.shtml>

Wood Protection Council  
*Wood Protection Guidelines: Protecting Wood From Decay Fungi and Termites*  
: Wood Protection Council, National Institute of Building Sciences  
1993  
“A very useful guidebook on controlling the conditions that favour attack by wood-destroying organisms.”  
Available at: Canadian Wood Council

## Articles

Andersen, Birgitte; Frisvad, Jens C.; Sondergaard, Ib; Rasmussen, Ib S.; Larsen, Lisbeth S.. 2011. Associations between Fungal Species and Water-Damaged Building Materials. *Applied and Environmental Microbiology* 12: 4180-4188  
Available at: UBC

Anon. 1999. Building pressurisation can affect possibility of mould growth. *IEQ Strategies*

Anon. 2000. How builders and homeowners can identify and limit fungal contamination in new homes. *IEQ Strategies* April: 4-6

Anon. 2000. Mould, moisture and mildew in attics: prevention and cure healthier homes, energy savings and new business. *Solplan Review* Sept.: 5-7  
Available at: VPL

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Available at: UBC

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Blanchard, V.; Stirling, R.. 2013. Technical Note: Plasma Pretreatment Enhances Field Performance of Exterior Wood Coatings. *Wood and Fiber Science* 2: 228-231

Brennan, T. and H. Burge. 2005. Assessing mold in buildings. *ASHRAE Journal* 47(1): 158-164

Available at: BCIT, UBC

Brischke, C. and A. O. Rapp . 2008. Dose-response relationships between wood moisture content, wood temperature and fungal decay determined for 23 European field test sites. *Wood Science and Technology* 42(6): 507-518

Available at: UBC

Brischke, C. and A. O. Rapp . 2008. Influence of wood moisture content and wood temperature on fungal decay in the field: Observations in different micro-climates. *Wood Science and Technology* 42(8): 663-677

Available at: UBC

Brischke, C., A. O. Rapp, et al. . 2008. Monitoring the “material climate” of wood to predict the potential for decay: Results from in situ measurements on buildings. *Building and Environment* 43(10) : 1575-1582

Available at: BCIT, UBC

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Available at: Public Libraries of B.C.

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Available at: BCIT, UBC

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Available at: HPO, BCIT

Fogel, J. L. and J. D. Lloyd. 2002. Mold performance of some construction products with and without borates. *Forest Products Journal* 52(2): 38-43  
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Geving, S. and J. Holme. 2010. The Drying Potential and Risk for Mold Growth in Compact Wood Frame Roofs with Built-in Moisture. *Journal of Building Physics* 33(3): 249-269  
Available at: UBC

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