Annotated Guide To
Training Aids In
Wood Products Protection

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Lonnie H. Williams
Raymond H. Beal

Southern Forest Experiment Station
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Annotated Guide To Training Aids
In Wood Products Protection

Terry L. Amburgey, Lonnie H. Williams, and Raymond H. Beal

This paper is an attempt to assemble under one cover a listing of training aids on the large variety of topics related to wood products protection. Foreign references in the English language are given to supplement domestic sources in some areas. Various types of audio and visual materials, literature, and educational courses are grouped by categories. Annotations have been supplied where they seem desirable. Some of the annotations have been borrowed from abstracts prepared by authors or from information prepared by the sources listed at the end of the paper. Sources for the aids are given in brackets, together with the cost where known. Complete addresses of supplying organizations are listed alphabetically at the end of the paper. Books may be obtained by writing the publishers. A few references are out of print. They are listed because of their continuing importance, and can probably be obtained from large libraries.

Although no claim is made for completeness, more than 105 individual references, 15 bibliographies, 16 tape programs, 21 films, 1,050 slides, 8 State or association training programs, and other sources of information are listed. The authors would appreciate being informed of omissions or of additional items that become available. In this manner, future editions will be assured of completeness and accuracy. It should be understood that inclusion or omission of any material does not indicate an endorsement or condemnation of its contents by either the authors or the Forest Service, U. S. Department of Agriculture.

In many of the training aids, recommendations for preventing and controlling the biological deterioration of wood refer to the use of chemicals. Some of the chemicals may no longer be registered or recommended for the uses stated. Before any chemical is applied, its status should be checked with the Cooperative State Extension Service (usually at land-grant universities), the county agent, or the National Pest Control Association. Specific information on preservative treatment is available from the American Wood-Preservers' Association and the American Wood Preservers' Institute.

GENERAL INFORMATION ON WOOD
Slide Courses

WOOD STRUCTURE. Slide-tape, 35 minutes, 114 slides.
Explains in detail the anatomy of wood, how preservatives are retained, and why wood shrinks and swells.
[Oregon State University]

HOW WOOD DRIES. Slide-tape, 30 minutes, 76 slides.
Relationship of fiber walls to the swelling and shrinking of wood, the movement of water through wood, and how moisture changes affect wood.
[Oregon State University]

PENETRATION OF LIQUIDS INTO WOOD.
Slide-tape, 20 minutes, 80 slides.
Theoretical aspects of fluid flow as related to the treating process, movement of preservatives through wood, and practical aspects of preservation.
[Oregon State University]

PRESSURE WOOD-PRESERVING PROCESSES. Slide-tape, 24 minutes, 119 slides.
Use of pressure-treated wood, how wood is prepared for treating, and how the treating process works.
[Oregon State University]
WOOD PRESERVATION MINI-COURSE. Slide-tape, 50 minutes, 144 slides.
Condensation of the four sound-slide units listed above. It consists of a brief explanation of the principal concepts of the structure, drying, and pressure treating of wood.
[Oregon State University]

FORESTS GROW HOMES. Slide-tape, 60 slides. [Western Wood Products Association]

Films

IN PURSUIT OF HAPPINESS. 25 minutes. [American Plywood Association]

About 120 films dealing with diverse aspects of forest trees and wood use may be borrowed or purchased.
[U. S. Department of Agriculture]

Literature

American Forest Institute.
No date CHECKLIST FOR COMMUNICA-
TORS.
Catalogues the many publications, slide presentations, and film strips produced by member associations of the Forest Industry Council.
[American Forest Institute, free]

American Wood Council.
No date A READER'S GUIDE TO WOOD
PRODUCTS.
Lists 63 booklets which give advice on how wood can be used in and around a home.
[American Wood Council, free]

American Wood Council.
No date HOUSE-HUNTER’S GUIDE.
Helps prospective home buyers to compare design features and mortgage factors of houses.
[American Wood Council, $0.25]

Anderson, L. O.
1969. LOW-COST WOOD HOMES FOR

Detailed discussion of methods of constructing wood-frame homes. Many illustrations.
[Superintendent of Documents, $1.45]

Anderson, L. O.
1970. WOOD-FRAME HOUSE CON-
STRUCTION. USDA Agriculture Handbook 73, 223 p.
Detailed discussion of all aspects of constructing wood-frame structures. Well illustrated.
[Superintendent of Documents, $2.60]

Anderson, L. O.
1972. CONDENSATION PROBLEMS:
THEIR PREVENTION AND SOLU-
How to control condensation and minimize moisture problems with vapor barriers and ventilation.
[Forest Products Laboratory, free]

Housing and Urban Development.
1972. WISE HOME BUYING. U. S. Depart-
ment of Housing and Urban Development, 36 p.
Topics include advantages and disadvantages of new and used homes; defects in design, construction, or maintenance; termites and wood rot. Describes responsibilities of HUD-FHA in regard to structural defects and gives addresses of HUD area offices.
[U. S. Department of Housing and Urban Development, free]

Kass, B. L.
1973. HOME BUYER'S CHECKLIST. Na-
tional Homebuyers and Homeowners Association, 30 p.
Many details, primarily financial, of home buying or selling. Termite inspections and design defects are mentioned.
[National Homebuyers and Homeowners Association, 1225 19th Street N.W., Washington, D. C. 20036, $1.00]

National Forest Products Association.
No date LUMBER AND WOOD PRODUCTS
LITERATURE.
Bibliography of literature and audio-
visual materials available from the member companies of the National Forest Products Association and from other cooperating organizations.

[National Forest Products Association; 6 or less are $0.30 each, more than 6 are $0.20 each]

National Forest Products Association.
No date THE HOUSING ISSUE.
Relates the growth of trees to housing.
[National Forest Products Association, $0.08]

Ponderosa Pine Woodwork.
No date HOW TO SPOT A BETTER HOME.
Includes 16 important factors to consider when looking for a new home or apartment to help get the most for your investment now and avoid pitfalls later.
[Ponderosa Pine Woodwork, free]

Southern Forest Products Association.
No date HOME BUYER'S GUIDE TO VALUE HOMES.
Some of the latest and best ideas on home design and construction.
[Southern Forest Products Association, free]

USDA Forest Products Laboratory.
Partial listing of literature on use of wood particularly in houses and other light-frame construction.
[Forest Products Laboratory, free]

Tapes

TREES AND ENVIRONMENT CASSETTE SERIES
Seven cassettes, each with a 15-minute program on each side. Side 2 of cassette No. 3 discusses Trees and Housing and side 1 of cassette No. 6 covers Wood and the Home Environment.
[American Forest Institute, $2.00 each with script]

WOOD-DESTROYING FUNGI

Slide Courses

STAINING OF WOOD AND ITS PREVENTION. Slide-tape, 22 minutes, 78 slides.
How attack by fungi can be prevented or controlled.
[Oregon State University]

RECOGNITION, PREVENTION, AND CONTROL OF WOOD DECAY IN BUILDINGS. Slide-script, 157 slides.
Designed as an outline of a self-teaching seminar for house builders or inspectors.
[North Carolina State University]

PREVENTION OF DECAY OF WOOD IN HOMES. Slide-script, 30-40 minutes, 54 slides.
Shortened version of slide course listed above.
[North Carolina State University]

Films

WOOD DECAY BY FUNGI.
Authoritative discussion of the requirements and activities of wood-destroying fungi. Preventive and control measures are also presented.
[State University of New York]

LONGER LIFE FOR WOOD. USDA Production Number 1156-T-70. 1954. 17 minutes.
Discusses the economics of using treated wood in places where decay may occur and describes the value of good construction. Illustrates treating techniques.
[U. S. Department of Agriculture]

Literature

Amburgey, T. L.
1971. ANNOTATED BIBLIOGRAPHY ON PREVENTION AND CONTROL OF DECAY IN WOODEN STRUCTURES (INCLUDING BOATS). Southern Forest Experiment Station, 123 p.
Lists nearly 500 literature.
[Southern Forest Experiment Station, free]

Amburgey, T. L.
Discusses the decay hazard of constructing earthfilled porches, flower planters, and patios adjacent to house foundations.

[Southern Forest Experiment Station, free]

Amburgey, T. L.
Describes the types of wood-inhabiting fungi and gives rules for decay prevention: (1) use properly seasoned wood (2) keep wood dry while in use (3) avoid soil contact with nonpressure treated wood (4) use pressure-treated wood whenever contact with the soil or other sources of moisture cannot be avoided.
[Southern Forest Experiment Station, free]

Amburgey, T. L.
Describes factors influencing growth of fungi and suggests how pest-control operators can prevent or remedy wood-decay problems.
[Southern Forest Experiment Station, free]

Amburgey, T. L., and D. W. French.
Putting plastic covers over the soil in crawl spaces reduces the moisture content of sub-floor wooden members.
[Southern Forest Experiment Station, free]

Boyce, J. S.
Discusses wood-inhabiting fungi and has two chapters on the deterioration of wood products. Most of the text is concerned with forest trees.

Authoritative reference on wood decay and the organisms which cause it. Wood preservatives and methods for their application are covered.
[British Information Services]

De Groot, R. C.
General discussion about types of decay, sources of moisture in buildings, and preservative treatments.
[Southern Forest Experiment Station, free]

Findlay, W. P. K.
Methods of preservation, preservatives and their evaluation, and the preservation of wood before and after manufacture. Wood-rotting fungi are briefly considered (p. 15-20).

Hartley, C.
1958. EVALUATION OF WOOD DECAY IN EXPERIMENTAL WORK. USDA Forest Products Laboratory Report 2119, 57 p.

Hickin, N. E.
Designed for the nonbiologist. Discusses what fungi are, how they affect wood, how to identify decay fungi, the difference between ordinary decay fungi and water-conducting decay fungi, and methods used to preserve wood. Hazardous construction practices are illustrated.
[St. Martin’s Press, $8.95]

Discusses wood-deteriorating agents and presents an authoritative and detailed discussion of the many aspects of wood preservation.
IT'S WOOD ROT, NOT TERMITES. 
N. C. Agricultural Extension Service, Extension Folder 300, 5 p. 
Brief account of the organisms causing wood decay, factors that promote their growth, and how attacks on buildings may be prevented. 
[North Carolina State University, $0.02 each in lots of 20 or more]

Levi, M. P. 
1972. PORIA INCRASSATA OR DRY ROT IN WOOD. N. C. Agricultural Extension Service, Extension Folder 301, 5 p. 
Brief discussion of how to recognize, control, and prevent decay by this water-conducting fungus. 
[North Carolina State University, $0.02 each in lots of 20 or more]

Nicholas, D. D., Ed. 
1972. WOOD DETERIORATION AND ITS PREVENTION BY PRESERVATIVE TREATMENTS. VOL. I. DEGRADATION AND PROTECTION OF WOOD. VOL. II, PRESERVATIVES AND PRESERVATIVE SYSTEMS. Syracuse University Press, Syracuse, N. Y.

Scheffer, T. C., and R. M. Lindgren. 
Authoritative discussion of fungal stains and how they may be prevented and controlled.

Scheffer, T. C., and A. F. Verrall. 
Discusses problems caused by decay in buildings in the U. S. and the means to avoid or control them. Moisture situations and construction features most responsible for the occurrence of decay in various building parts are described, and directions are given for eliminating undesirable conditions. 
[Superintendent of Documents, $1.05]

USDA Forest Products Laboratory. 
1971. LIST OF PUBLICATIONS ON WOOD PRESERVATION. USDA Forest Products Laboratory Report, 13 p. 
Includes publications that give general information and the results of research by the Forest Products Laboratory on preservative materials, methods of application, and service life of treated and untreated wood. 
[Forest Products Laboratory, free]

USDA Forest Service. 
Seasoned, properly used wood is a dependable building material. In properly designed houses that are well built and well maintained, decay causes little damage. 
[Superintendent of Documents, $0.30]

Verrall, A. F. 
Biology of this water-conducting fungus and how decay may be prevented. 
[Southern Forest Experiment Station, free]

WOOD-DESTROYING INSECTS

General Information

Bletchly, J. D. 
A well-illustrated aid to the identification of damage not only by major wood-boring pests but also by numerous insects only incidentally occurring in wood. 
[British Information Services]

Chamberlin, W. J. 
1960. INSECTS AFFECTING FOREST PRODUCTS AND OTHER MATERI-

An authoritative, broadly based reference for every pest control firm and many entomologists. Urban entomology is just being recognized as equal in importance to well-established areas such as forest, agricultural, and medical entomology. Chapters related to wood-products protection include entomological organization and legislation, pesticides and their uses, equipment for pesticide application, and wood-destroying insects and fungi.

[University of California]

National Pest Control Association.

Practical information on the biology and control of wood biodeterioration pests as well as all other invertebrate and vertebrate pests in and around structures. Usually a single pest or type of pest is considered in each release.


Comprehensive and especially useful for miscellaneous pests occurring in wood.

Truman, L. C., and W. L. Butts.

Originally produced as a correspondence course in pest control. Wood decay and wood products insects other than termites receive very brief treatment.

Termites

Slides

PREVENTION OF TERMITE ATTACK IN HOUSES. Slide-script, 37 slides.

Biology of subterranean termites and prevention of attack.
[North Carolina State University]

Films

BATTLE OF THE CENTURIES. 1932.
Ant versus termite. The complete life cycle of the common ant, excellently organized pattern of insect existence and struggle.
[University of California]

BLOCK THAT TERMITE. 1940. 20 minutes.
Habits and habitat of underground termites; methods to protect new buildings from infestation; procedures to prevent further damage after buildings are attacked. Methods of protecting infected buildings and points to be observed in constructing new buildings to prevent termite damage.
[University of California]

BUILT-IN TERMITE CONTROL. 1962. 13-1/2 minutes.
Designed to help pest control operators sell soil pretreatment to building contractors and architects.
[University of California]

Termite control.
[University of California]

FLAGELLATES OF TERMITES. Part 1, American, 48 minutes; Part 2, Australian, 50 minutes; Part 3, 55 minutes.
Shows approximately 100 species, their locomotion and other unusual features which cause biological problems.
[University of California, Part 1—$62.00, Part 2—$45.00, Part 3—$49.00]

TERMITE CONTROL. 1949. 22 minutes.
Life history of the termite, damage, and control.
[University of California]

1 Although many Purdue films are available from one or more sources, Purdue University is given as the source because its film catalogue is a valuable reference in itself.
TERMITES. 23 minutes. 
*The life cycle, colonization, wood- and earth-dwelling types, preventing damage.*
[Purdue University]

TERMITES AND THEIR CONTROL. 1956. 14 minutes. 
Illustrates construction errors that allow termite entrance. Discusses kinds of termites, shows how they can be distinguished from ants, and suggests control methods.
[Purdue University]

TERMITES OF THE GOLD COAST. 25 minutes. 
Remarkable scenes of egg laying and nests of African species of termites. The species shown are much different from termites found in the U.S.
[Purdue University]

THE INTRUDER. 28 minutes. 
About a high school boy who becomes interested in termites when they are discovered in his home. He decides to make termites his project for his school’s science fair. Illustrates methods of prevention and treatment of infested homes. Rare scenes of termites, their nests, methods of attack and damage to homes.
[Purdue University]

**Literature**

Beal, R. H. 
*A popular article on the discovery of the Formosan subterranean termite (Coptotermes formosanus Shiraki) in the continental United States in 1965. Characteristics by which to recognize this termite are presented as well as a comparison with the native termite [Reticulitermes flavipes (Kollar)].*

Beal, R. H., and V. K. Smith. 
*Phosphate insecticides may have value as a soil treatment.* 
[Southern Forest Experiment Station, free]

*A popular article on the penetration and persistence of dieldrin and heptachlor in seven soil types throughout the United States.*
[Southern Forest Experiment Station, free]

Ebeling, W. 
1968. TERMITES — IDENTIFICATION, BIOLOGY, AND CONTROL OF TERMITES ATTACKING BUILDING. California Agricultural Experiment Station Manual 38, 4 p. 
*Comprehensive and easily understood. Abundantly illustrated to simplify identification of many U.S. species. About half of the booklet is devoted to control.*
[University of California, $1.00]

Ebeling, W., and R. J. Pence. 
1965. TERMITE CONTROL — PREVENTION AND CONTROL OF THE WESTERN SUBTERRANEAN TERMITE. California Agricultural Experiment Station Circular 469, 16 p. 
*A compilation of practical information. Other wood-destroying insects are briefly discussed.*
[University of California]

Harris, V. W. 
*The first account in English of termite damage as a world problem. Comprehensive information not only on damage to buildings but also on part of termites in reducing yield of agricultural crops. Well illustrated.*

Hickin, N. E. 
*Primarily written for the layman. Discusses what termites are and how they affect wood. Brief classification of ter-*
mites as well as methods for collecting and preserving specimens. Helpful for beginning termitologists.
[St. Martin’s Press, $10.00]


Johnston, H. R., V. K. Smith, and R. H. Beal. 1972. SUBTERRANEAN TERMITES. THEIR PREVENTION AND CONTROL IN BUILDINGS. USDA Home and Garden Bulletin 64, 30 p. Detailed, illustrated advice on chemical soil treatments and desirable building practices. A good booklet for homeowners. [Southern Forest Experiment Station, free]

Kofoid, C. A. 1934. TERMINITES AND TERMITE CONTROL. University of California Press. 785 p. One of the first and most comprehensive books on the biology of termites. Describes the termites of the United States, Mexico, Canal Zone, the West Indies, Hawaii, and the Philippine Islands. Suggests ways of preventing damage by methods of construction and the use of chemically treated and unpalatable woods.


National Pest Control Association. 1973. APPROVED REFERENCE PROCEDURES FOR SUBTERRANEAN TERMITE CONTROL. 168 p. Comprehensive report on all aspects of control in structures. This is a basic guide for the pest control industry and the public. [National Pest Control Association. NPCA member price $25.00, nonmember price $75.00]

Smith, V. K., Jr., and H. R. Johnston. 1970. EASTERN SUBTERRANEAN TERMITE. USDA Forest Pest Leaflet 68, 8 p. Brief description, including habits, evidence of attack, prevention, and control. Written for the general public. [Southern Forest Experiment Station, free]


Snyder, T. E. 1956. ANNOTATED SUBJECT HEADING
BIBLIOGRAPHY OF TERMITES

Snyder, T. E.

Snyder, T. E.

Sperling, R.
1971. PROTECTING BUILDINGS AGAINST TERMITES. PANS (Pest Articles and News Summaries) Section A 13(4) : 345-374.
Describes what designers, builders, manufacturers of building materials, and owners can do to prevent damage. Well presented and illustrated. [Centre for Overseas Pest Research, College House, Wrights Lane, London W8 5SJ]

Weesner, F. M.
Most of the information has appeared elsewhere but is brought together under one cover. The four chapters on regional distribution and keys make this book very useful.

Weesner, F. M.
No date TERMITES AND ALL ABOUT THEM. National Pest Control Association Leaflet.
Designed for handout to the general public.

UNESCO
More than 40 scientific papers and popular lectures given at a symposium held in New Delhi, India. The symposium was divided into 6 sections: systematics and morphology, physiology and development, general biology, ecology, intestinal cellulose-digesting symbionts, and control and termite-proof construction. Many contributions are from authors of international reputation. [UNESCO]

Beetles

General Information

Hickin, N. E.
Readable treatment of the causes of wood biodeterioration. Emphasizes biology and control of Anobium punctatum and other anobiid species, but most other wood-boring beetles as well as wood wasps, termites, and marine borers are discussed. [St. Martin's Press, $8.95]

Hickin, N. E.
Thorough discussion of the geographic incidence, economic importance, and control of wood-boring beetles in Great Britain.

St. George, R. A.
Discusses the biology and control of beetles frequently found damaging unseasoned and recently seasoned wood, usually that which is covered with bark. Gives kiln-drying schedule for control of larvae in infested wood. [Superintendent of Documents, $0.30 each]
Williams, L. H.  
Various beetle infestations attributed to powder-post beetles by the pest control industry are described making the point that identification is important for the proper selection of control measures.  
[Southern Forest Experiment Station, free]

Williams, L. H.  
The acronym ALBOW is proposed as an aid to remembering suggested beetle names. The acronym TOW-A-TOP is suggested for remembering differences in typical biological habits of the beetles which can be used to make sufficient identifications for control measure selection.  
[Southern Forest Experiment Station, free]

Williams, L. H., and H. R. Johnston.  
1972. CONTROLLING WOOD-DESTROYING BEETLES IN BUILDINGS AND FURNITURE. USDA Leaflet 558, 8 p.  
Questions frequently asked by homeowners are answered with practical information. Contrasts in beetle and termite habits and current USDA recommendations for beetle control are also given.  
[Superintendent of Documents, $0.25 each]

Films
FOREST LEGACY, 1965. 16 minutes, color.  
The first half describes the importance of wood and evolution of forests in England. The second half deals with wood-boring beetles.  
[Purdue University]

Anobiidae Literature
Acciavatti, R. E.  
1972. THE ECOLOGY OF ANOBIIDAE ASSOCIATED WITH NORTHERN HARDWOOD FORESTS IN CENTRAL NEW YORK, WITH SPECIAL REFERENCE TO PITLINUS RUFICORNIS SAY. University Microfilms, Ann Arbor, Michigan. 131 p.  
The most extensive study of the second most common anobid species in structures in the Northeast.

French, J. R. J.  
Draws significant findings from 45 references about the control of this beetle, the major pest of seasoned wood in Australia, England, Europe, and New Zealand.

Linscott, D.  
The information is excellently documented under 15 factors that influence beetle attack. A checklist shows 112 hosts.

Moore, H. B.  
Results are limited to those obtained with adults and with larvae up to 6 weeks after egg hatching.

Moore, H. B.  
National Pest Control Association.
Practical information about the identification, biology, and control.

Simeone, J. B.
Compares incidence of anoobiids in structures and in reference collections. Influences of temperature and humidity on the most common species in the Northeast are briefly reported.

Snyder, T. E.
Apparently the only reference to Nicobium hirtum Illiger, probably the second most common anoibiid in structures in the Southeast.

This report has been the basis for the widespread use of water-emulsion formulations for beetle control.

White, R. E.
Taxonomy

White, R. E.
1971. KEY TO NORTH AMERICAN GENERA OF ANOBIIDAE, WITH PHY-

The latest and most complete key to anoobiids.

Williams, L. H.
Damages occurring in 4 severe infestations of X. peltatus, the most common species in structures in the Southeast, are described to emphasize that early detection and control are warranted.
[Southern Forest Experiment Station, free]

Lyctidae Literature

Christian, M. B.

Gerberg, E. J.
The newest and most complete taxonomic key for the Lyctidae.

National Pest Control Association.
A thorough compilation of practical information. An appendix briefly discusses wood identification, growth, and terminology.

Smith, V. K.
Wright, C. G.

Wright, C. G.

Bostrichidae Literature

Fisher, W. S.

Woodruff, R. E.
1967. AN ORIENTAL WOOD BORER, *HETEROBOSTRYCHUS AEQUALIS* (WATERHOUSE), RECENTLY ESTABLISHED IN FLORIDA (COLEOPTERA: BOSTRICHIDAE). Entomology Circular 58, 3 p. [Florida Department of Agriculture, Division of Plant Industry, Gainesville]

Cerambycidae (old house borer) Literature

Although the old house borer has been studied extensively in Europe and Africa, the numerous references will not be listed here.

McIntyre, T., and R. A. St. George.
1972. THE OLD HOUSE BORER. USDA Leaflet 501, 8 p. Brief description, including habits, evidence of attack, prevention, and control. Written for the general public. [Superintendent of Documents, $0.25 each]

National Pest Control Association.

WOOD-DESTROYING INSECTS AND FUNGI

Slides

PREVENTION OF DECAY AND TERMITE ATTACK IN HOMES. Slide-script. Discusses wood-inhabiting fungi and termites, with emphasis on prevention and control.
[North Carolina State University]

National Pest Control Association.
A listing of about 160 slides, some of wood-products pests, may be obtained by writing. Slides may be purchased for about $0.65 each.

Southern Forest Insect Work Conference
Mr. W. H. Echols, Secretary-Treasurer
2406 E. Northside Drive
Jackson, Mississippi 39211
A set of 35 slides of wood products insects may be purchased.

Pest Control Operators of California, Inc.
3444 West First Street
Los Angeles, California 90004
Information about the 20 slide sets being produced by this organization may be found in National Pest Control Operators News, January 1972, p.12-15.

Films

INSPECTION FOR WOOD DESTROYING ORGANISMS. U.S. Navy Training Film MN 8167A. 18 minutes. Describes the problems faced by the Navy in maintaining its wooden structures. Explains that wood is destroyed by living organisms and shows how to inspect for damage. [Purdue University or U.S. Navy]

CONTROL OF WOOD DESTROYING ORGANISMS. U.S. Navy Training Film MN 8167B. 22 minutes. Outlines control methods. [Purdue University or U.S. Navy]

WOOD PRESERVATION — EFFECTS OF MARINE ORGANISMS. U.S. Navy Training Film 8167C. Biology of pests that attack waterfront structures. Primary emphasis is given to marine borers, but fungi and insects are also discussed. [U.S. Navy]
WOOD PRESERVATION — CONTROL OF MARINE ORGANISMS. U. S. Navy Training Film MN 8167D.

*Emphasizes the need for thorough periodic inspections and use of pressure-treated wood.*
[U.S. Navy]

TREATING WOOD. 1958. 14 minutes.

*Emphasizes the need for treating wood that will be exposed to Florida's damp climate. Lists and discusses wood-destroying agents, shows examples of damage, and discusses protective treatments. Includes a tour of a wood-treating plant.*
[Purdue University]

THE MOST IN POSTS. 1956. 20 minutes.

*Humorous, but with sound advice for farmers, this film describes the attack of termites and wood rot on fence posts and farm structures.*
[Purdue University]

Listing of 16 mm films in entomology and related fields.

[List includes many subjects other than wood-products protection and is current as of 1972.]
[Purdue University, $1.00]

Listing of filmstrips in entomology and related fields.

[Listing of filmstrips in entomology and related fields.]
[Purdue University, $0.50]

**Literature**


*General discussion for householders. Shows how construction and design, as well as maintenance, can prevent decay by keeping wood dry. Tells how attack by termites and other wood-destroying insects can be prevented and controlled.*
[Southern Forest Experiment Station, free]

Blake, E. G. 1953. ENEMIES OF TIMBER: DRY ROT AND THE DEATH-WATCH BEE-


*Detailed discussion of Merulius lacrymans, a water-conducting decay fungus, and the death-watch beetle.*


*Detailed discussion of wood deterioration, by both fungi and insects, in living trees and wood products. Methods of preventing and controlling decay in buildings, ships, and other products.*


*Describes the principal pests and diseases of standing trees and wood in storage and use, their economic significance, and prevention.*


[St. Martin’s Press, $8.95]

Oliver, A. C. 1964. TIMBER PESTS AND THEIR CONTROL. Timber Research and Development Association, St. John's Road, Tylers Green, High Wycombe, Bucks, England. 64 p.

*An excellently illustrated reference primarily for diagnosing biodeterioration problems and selecting control measures. Fungi growing in or on wood, beetle pests, and marine borers receive more attention than termites or wood preservation.*

Scott, G. A. 1968. DETERIORATION AND PRESERVATION OF TIMBER IN BUILDING. Longmans Green & Co., Ltd.,
A practical handbook, primarily for builders in Britain, covering deterioration of wooden members by atmospheric conditions, fungal decay, and insect pests; and methods of treatment.

**USDA Forest Products Laboratory.**


Basic information on wood as a material of construction, with data for its use in design and specification. Sections are devoted to protection from fungi and insects, painting and finishing, and preservation. Currently out of print but a revision may be available in late 1974.  
[Superintendent of Documents]

**PEST CONTROL TRADE PERIODICALS**

**PEST CONTROL**

Harvest Publishing Company  
9800 Detroit Avenue  
Cleveland, Ohio 44102  
Subscription rates: 1 year, $6.00; 2 years, $10.00

**BEE PEST CONTROL OPERATORS NEWS**

BEE Publishing Corporation  
Executive and Editorial Office  
Suite 222  
4347 Pampas Road  
Woodland Hills, California 91364  
Subscription rates: 1 year, $6.50; 2 years, $10.00

**PEST CONTROL TECHNOLOGY**

Somick Publishing Incorporated  
P. O. Box 12356  
Cincinnati, Ohio 45212  
Subscription rates: 1 year, $12.00; 2 years $20.00

**EDUCATION AND TRAINING OPPORTUNITIES**

**Formal training**, Campus or correspondence.

A list of universities offering courses in pest control technology may be obtained from the National Pest Control Association.

**Short courses and workshops**

Nearly every State has one or more 1- to 5-day courses sponsored by universities, regulatory offices, or pest control associations. Date and location are given monthly in industry trade magazines.

**Association-sponsored training in pest-control technology**

The National Pest Control Association sponsors a Servicemen's Training Program. Information may be obtained from the NPCA. The California Pest Control Association sponsors courses accredited by California State Polytechnic University and administered by Kellogg-West Center for Continuing Education. The Tidewater Pest Control Association sponsors a course at Thomas Nelson Community College, Hampton, Virginia; it consists of 20 once-a-week sessions.

**Training sponsored by State Regulatory Offices**

Arizona's course is 20 to 24 lessons, given twice a week and rotated between Phoenix, Tucson, and Yuma. Mississippi's initial course was 20 weeks. Weekly meetings were held in various cities throughout the State. A shorter course is now planned.

**Other**

National Pest Control Association  
Membership cost for extension, research, and regulatory personnel is $9.00 per year. This sum entitles member to receive technical releases. For those who wish to receive all information released by the association, the membership fee is $18.00.

**Tape cassettes**

Tapes on subterranean termites, other wood pests, and household pests are available from Dr. Austin M. Frishman, 30 Miller Road, Farmingdale, New York 11735.
Serviceman training manuals
Neil A. Maclean Co.
765 Landess Avenue
P. O. Box 319
Milpitas, California 95035

A series of volumes about the life cycle, habits, and habitats of various insects. Color and black and white closeups.

The following volumes are available at $25.00 each:

Volume I  German cockroach
Volume II  American cockroach
Volume III  Brown-banded cockroach
Volume IV  Oriental cockroach
Volume V  Flea
Volume VI  Dry wood termite
Volume VII  Subterranean termite
Volume VIII  Damp wood termite
Volume IX  Carpet beetle
Volume X  Clothes moth
Volume XI  Black widow spider
Volume XII  Fly
Volume XIII  Brown dog tick

Addresses of Suppliers of Training Aids Cited in the Preceding Pages

American Forest Institute
1619 Massachusetts Avenue, N.W.
Washington, D.C. 20036

American Plywood Association
To borrow film write:
Modern Talking Picture Service, Inc.
2323 New Hyde Park Road
New Hyde Park, New Jersey 11040

American Wood Council
1619 Massachusetts Avenue, N.W.
Washington, D.C. 20036

American Wood-Preservers' Association
1625 Eye Street, N.W.
Washington, D.C. 20006

American Wood Preservers' Institute
1651 Old Meadow Road
McLean, Va. 22101

British Information Services
Sales Section
845 Third Avenue
New York, N.Y. 10022

Forest Products Laboratory
USDA Forest Service
Information Services
P. O. Box 5130
Madison, Wisconsin 53705

National Forest Products Association
1619 Massachusetts Avenue, N.W.
Washington, D.C. 20036

National Pest Control Association
The Buettner Building
250 W. Jersey Street
Elizabeth, New Jersey 07207

North Carolina State University
Extension Forest Resources
Box 5488
Raleigh, North Carolina 27607

Oregon State University
Slide tape courses are available in reel-to-reel tapes or cassettes and can be either rented or purchased from:
Forest Extension School of Forestry
Oregon State University
Corvallis, Oregon 97331

Ponderosa Pine Woodwork
39 S. LaSalle Street
Chicago, Illinois 60603

Purdue University
Lists of 16-mm films and film strips in entomology and related fields.
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W. Lafayette, Indiana 47907

St. Martin's Press, Inc.
175 5th Avenue
New York, New York 10010

Southern Forest Experiment Station
USDA Forest Service
701 Loyola Ave., Rm. T-10210
New Orleans, La. 70113

Southern Forest Products Association
P. O. Box 52468
New Orleans, La. 70150
State University of New York
College of Environmental Science and Forestry
Syracuse, New York 13210

Superintendent of Documents
U. S. Government Printing Office
Washington, D. C. 20402

UNESCO
Place de Fontenoy
Paris—7e
France

U. S. Department of Agriculture
Office of Information
Motion Picture Service
Washington, D. C. 20250

U. S. Dept. of Housing and Urban Development
Consumer Information
Public Documents Distribution Center
Pueblo, Colorado 81009

U. S. Navy Training Films

To borrow:
Film Depository
Naval Photographic Center
U. S. Naval Station
Washington, D. C. 20390

To purchase:
National Audiovisual Center
General Services Administration
Suitland, Maryland 20409
Amburgey, Terry L., Williams, Lonnie H., and Beal, Raymond H.
Lists publications, bibliographies, tape programs, films, and slides.