

DesignTrends

3 NARRATIVES FOR HARDWOODS IN DESIGN

Western Hardwoods Association 2023 Annual Convention About (the quick version):

- Tenure Track Interior Architecture Professor at University of Oregon in Eugene
- Furniture Designer and Maker
- Prior Commercial Interior Designer, Custom Cabinetmaker, Trim Carpenter, European Kitchen Designer (Leicht and Alno)









BIOPHILIC DESIGNS

Occupant Health Productivity Building Health

BIOPHILIC DESIGN

Introduces real nature, indirect nature, or spatial conditions that mimic natural phenomena.









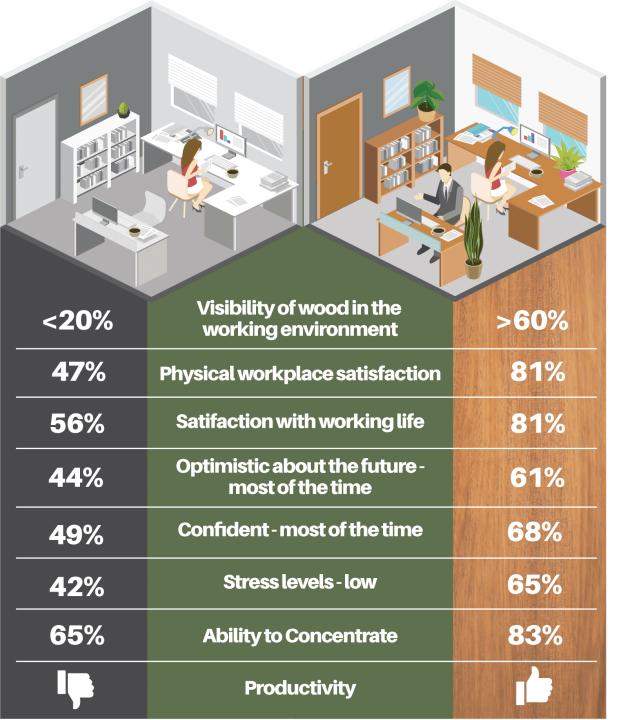
LIVING BUILDING CHALLENGE

LEED BD+C Pilot Points for Biophilia (abbreviated):

- 1) The project design provides regular access to Nature in the Space
- 2) The project design offers Natural Analogues
- 3) The project design has spatial properties that align with the Nature of the Space
- 4) The project uniquely connects people to the place, climate, and culture through **Place-Based Relationships**
- 5) The project creates sufficient opportunities for human-nature interactions within the building and within the project boundary, external to the building, creating an environment that ties the landscape and interior environments together.







From a study for Forest and Wood Products Australia, key highlights of Biophilic Design:

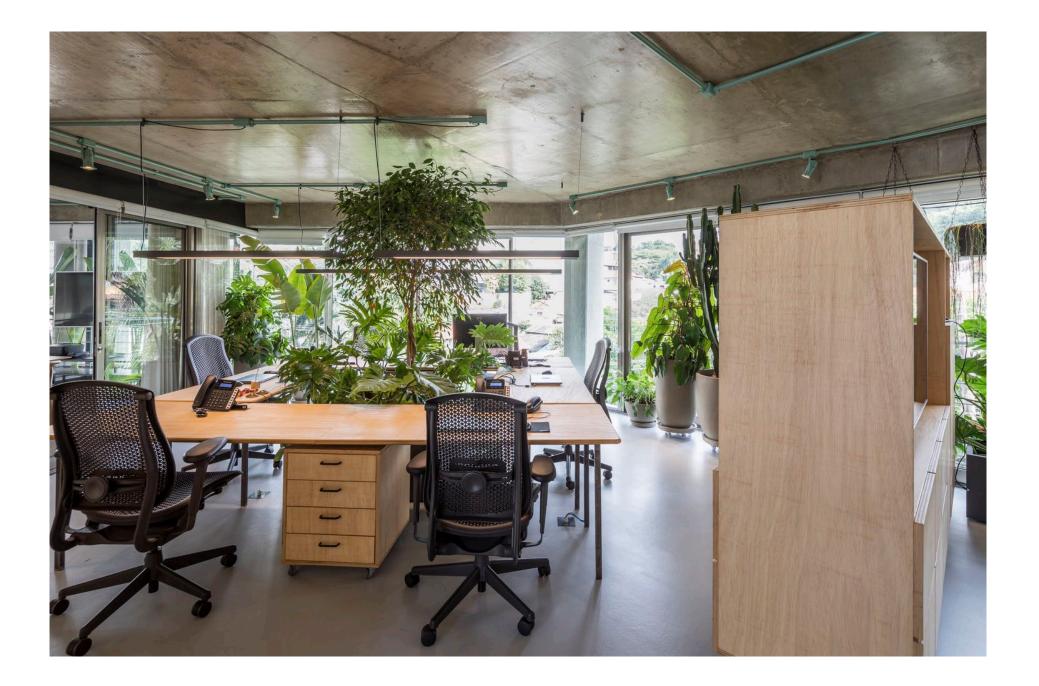
Office design: productivity can be increased by 8% and rates of well-being increased by 13%
Education spaces: increased rates of learning, improved test results, concentration levels and attendance, reduced impacts of ADHD

• Healthcare spaces: post-operative rates of recovery reduced by 8.5%, reduced pain medication by 22%

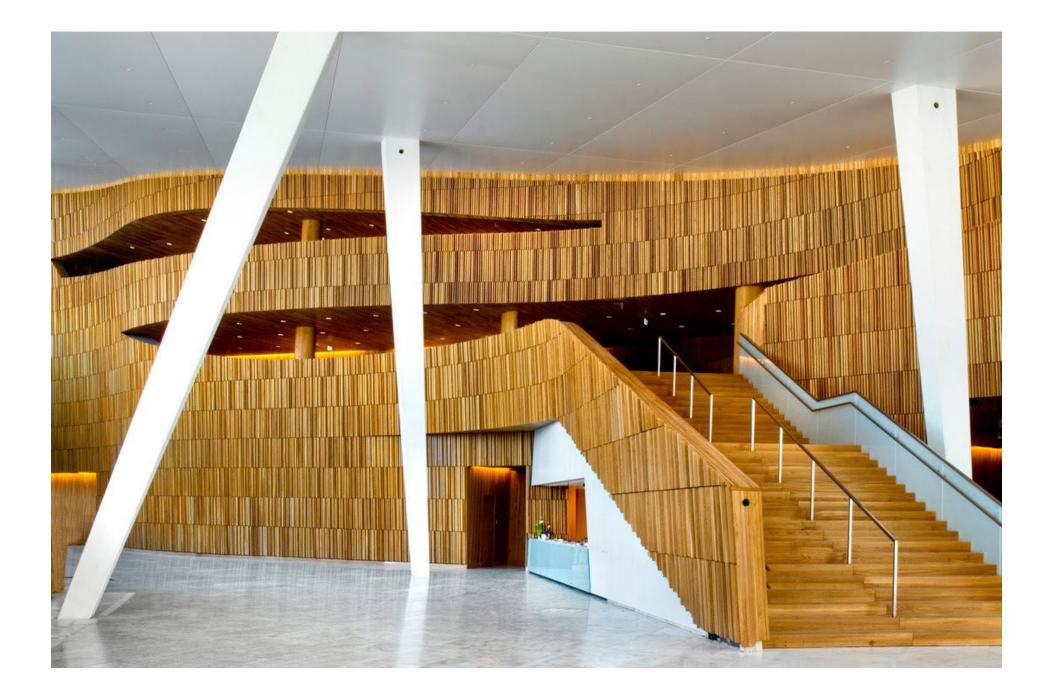
• Retail: the presence of vegetation & landscaping has been found to increase average rental rates on retail spaces with customers indicating they were willing to pay 8-12% more for goods and services.

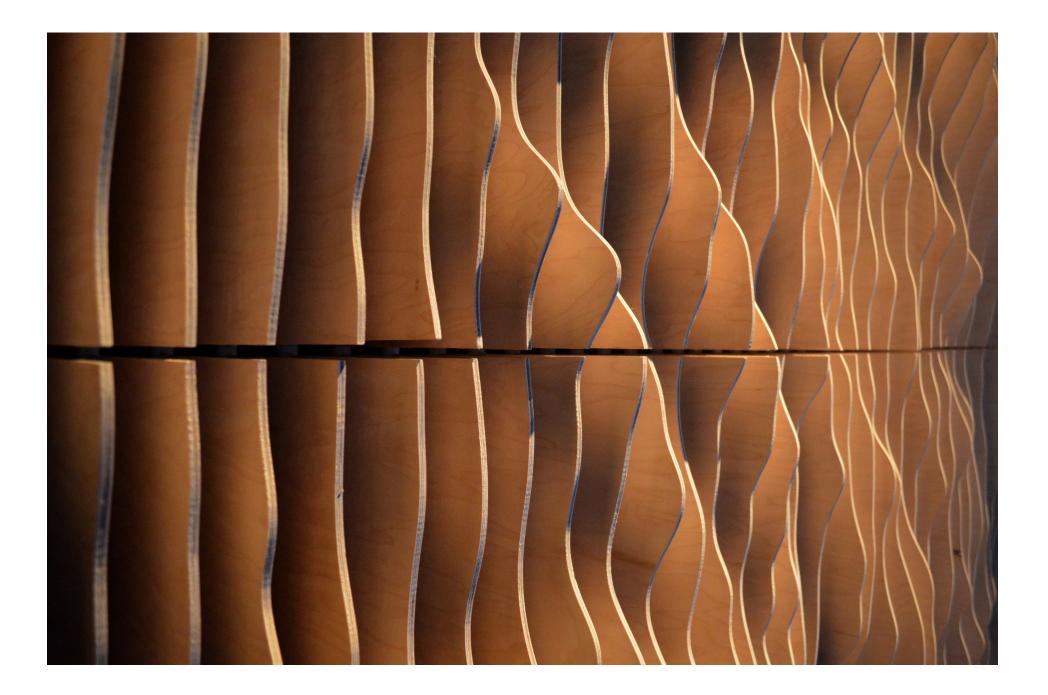
• Homes: 7-8 % less crime attributed to areas with access to nature and can command an increase of 4-5% in property price

Infographic excerpt from <u>Workplaces: Wellness +</u> <u>Wood + Productivity</u> via ThinkWood











MATERIALS AND MICROBES

The Biology and the Built Environment Center (BioBE)



Does wood species impact our built environment microbiome?

Exposed wood in buildings has a positive emotional impact on occupants; however, it may also have unseen physiological impacts on their health. This may be driven, in part, by the influence of wood to shape a building's microbiome through selective pressures created by terpenoid emissions, tannins, porosity and moisture buffering. Wood is a porous, natural material that can foster microbes on its surfaces but many of these are sequestered into wood's pores and difficult to recover; therefore, also more difficult to transfer compared to smooth, non-porous surfaces. Many of these microbes are structurally.



LOCAL MATERIAL

Sustainability Community Story



LEED BD+C Points for Regional Materials:

 All building materials or products have been extracted, harvested or recovered, as well as manufactured within a 500 mile (800 kilometer) radius of the project site.



American Made

Where in America is hardwood?

Most hardwood forestland in the continental United States is in the eastern half of the country; the equivalent of hardwood trees covering every square inch of New York, Pennsylvania, Ohio, Indiana, Illinois, West Virginia, North and South Carolina, and Georgia. It is the home of the oaks, maples, cherry, ash, poplar, and scores of other hardwood species, many of which grow nowhere else in the world.



Did you know?

Of all temperate forests in the world, North American forests have the most diverse hardwood species. They vary in appearance and durability, with some species more plentiful than others because of their natural occurrence.

OREGON NATIVE HARDWOODS

Common Name

Scientific Name

Bigleaf maple	Acer macrophyllum Pursh
Black cottonwood	Populus trichocarpa Torr. & Gray
California black oak	Quercus kelloggii Newb.
California-laurel	Umbellularia californica (Hook. & Arn.) Nutt.
Giant chinkapin	Castanopsis chrysophylla (Dougl.) A. DC.
Oregon ash	Fraxinus latifolia Benth.
Oregon white oak	Quercus garryana Dougl. ex Hook.
Pacific madrone	Arbutus menziesii Pursh
Red alder	Alnus rubra Bong.
Tanoak	Lithocarpus densiflorus (Hook. & Arn.) Rehd.

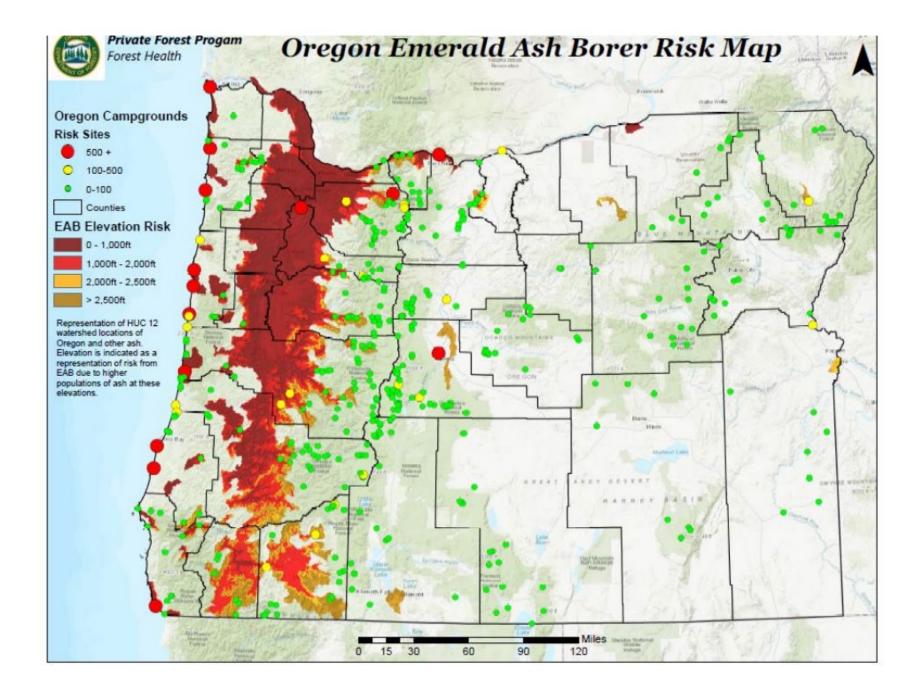








On June 30, 2022, <u>emerald ash</u> <u>borer</u> (EAB), an exotic beetle that infests ash trees, was discovered in Forest Grove, Oregon, marking the first confirmation of the invasive pest on the West Coast.



SPECIES TRENDS

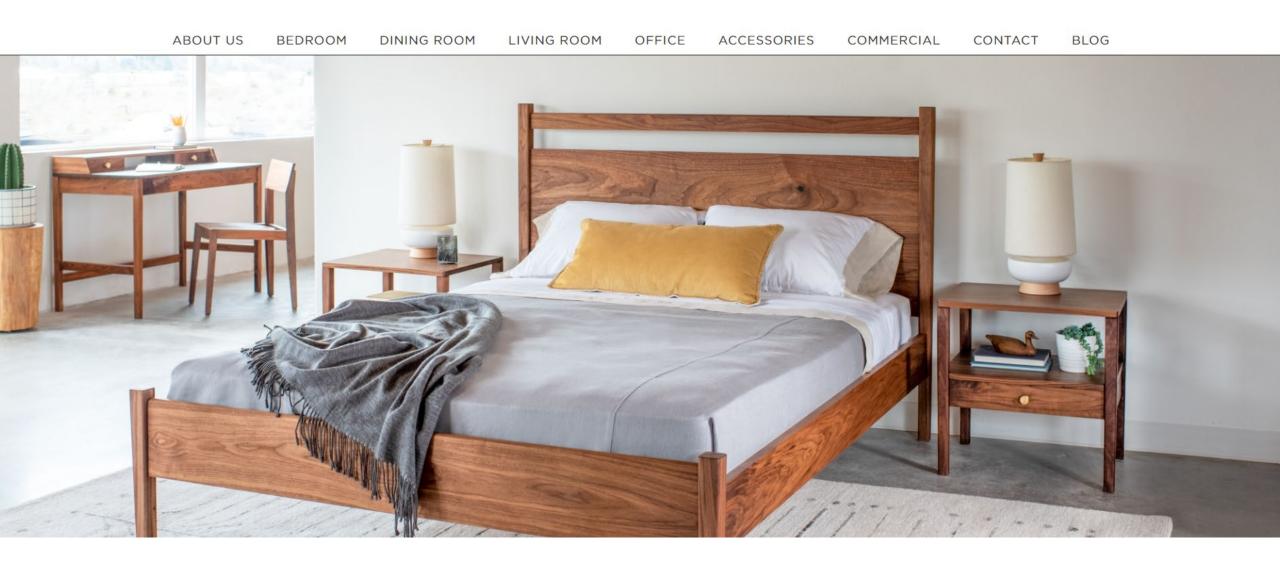
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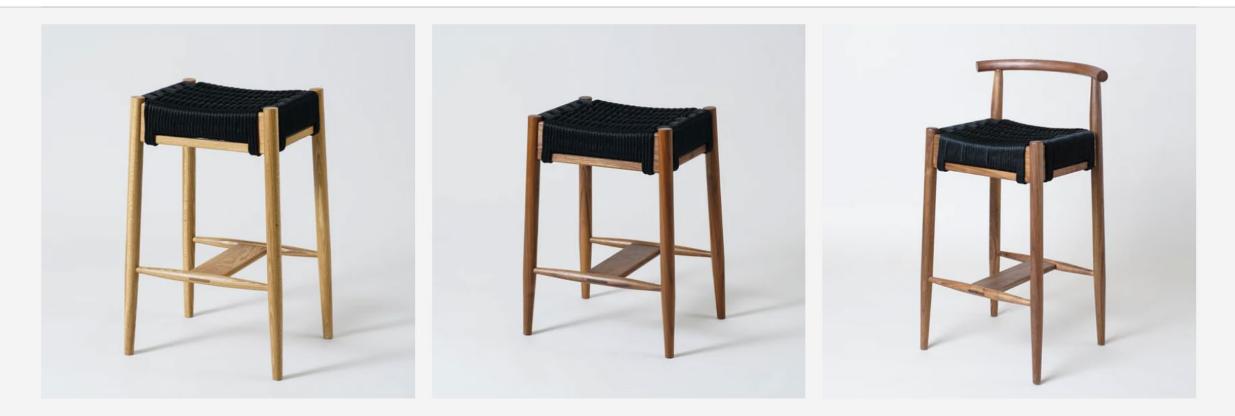
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