



2021 CEU Options

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Architectural Bamboo in the Age of Digital Fabrication

1 AIA LU | Sponsor: [Smith & Fong Plyboo](#)

Description: This seminar explores the CNC and Digital manufacturing and fabrication techniques of textured architectural bamboo panels. Standard and custom patterns, acoustical solutions and a modular design system. The seminar will also explore the unique sustainability attributes of bamboo as a building material including its Life Cycle Analysis, Environmental Product declaration, Carbon impacts of bamboo, LEED 4 credit earning potential, harvesting and manufacturing practices. Examples and case studies, diagrams and a time lapse video are all integrated into a 45-minute PowerPoint presentation

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Architectural Resin Solutions for Light, Color, Pattern

1 AIA LU | HSW Hour | Sponsor: [Lumicor](#)

Description: Compare the types of resin used to make panels in terms of their material properties and discuss the renewable elements and recyclability of panels. Discuss resin panel décor and customization possibilities and the installation options for a wide array of interior and exterior applications. Explain how resin panels have the potential to play a role in projects seeking to meet the requirements of green building programs such as LEED®, the Living Building Challenge, and the WELL Building Standard® in the areas of recycled content, beauty and design, and biophilia. Describe how the light transmission properties of resin panels can be used to delineate areas and add privacy while increasing occupant access to daylighting and its many benefits.

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Biomimicry in the Built Environment

1 AIA LU | HSW Hour | Sponsor: Caragreen

Description: The way we solve problems, the way we create, has had lasting consequences on our environment. Pollution, waste, struggling to find the right solution. How can we design better? Nature has solved problems and perfected the solution over 4 billion years, since the Earth's creation. Adapting and evolving to fit current needs has created designs beyond our imagination. This course delves into how to utilize these designs for our needs, as shapes, as functions, and even as whole systems. This is the future of design.

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Biophilic Design

1 AIA LU | HSW Hour | GBCI | Sponsor: Caragreen

Description: Learn about the latest trend in interior design: Biophilic Design, which is the incorporation of natural elements using design techniques to improve the environment, employee well-being and productivity. This presentation is more than just theory, it offers case studies and data that back up this type of design and shows how retail, commercial, school, health and hospital buildings and employees can benefit substantially by incorporating the principles of biophilic design. From water features, daylighting, acoustic treatments, sounds and natural imagery to analogs of nature and elevated visual planes, the techniques and materials to invoke them are available for the next generation of design.

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Circularity in Building Materials

1 AIA LU | Sponsor: Caragreen

Description: In the simplest of terms, a circular economy is an economic framework that is restorative and regenerative by nature. Also referred to as a closed-loop system, circular economies seek to cut out the single-use, waste-creating aspects of our current economic system and instead replace them with practices that not only reduce waste but also find ways to keep products and materials in use while regenerating natural systems. So instead of a system that depletes our resources and jeopardizes the health of the planet, circular economy systems work to create a system in which the things we buy are created out of resources we already have, and, once we are finished with them, can be put back into the system of commerce (rather than a landfill).

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Transforming Standard Building Materials into Versatile Interior Finishes and Furniture

1 AIA LU | HSW Hour | IDCEC | Sponsor: [Torzo Surfaces](#)

Description: This course discusses brief history of acrylic infusion, provides a general understanding of common building materials along with inherent limitations in their use, and how these same materials can be engineered and transformed into beautiful, durable interior surfaces. The topic focuses on Sustainable Acrylic Infused Composite Panels (SAICPs) and discusses their manufacture, sustainable profile and how these new materials can be applied for unique interior finishes and furniture.

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Understanding Thermally Modified Wood

1 AIA LU | Sponsor: [ArborWood](#)

Description: Arbor Wood Co. is a Thermally Modified Timber (TMT) product manufacturer. This course will describe general components of a wood cell wall and define how modification affects these components. It will touch on different types of wood modification with an emphasis on the TMT process and the features and benefits associated with it. Suitable applications will be explored along with an understanding on how TMT products can contribute to LEED objectives.

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Understanding Manufacturing, Applications and Benefits of Paper Composite Surfaces

1 AIA LU | Sponsor: [Richlite](#)

Description: Discuss the key elements in the manufacturing process of high-quality paper composite panels. Identify the appropriate applications of paper composite panels and explain their benefits over alternative materials. Display an understanding of how paper composite panels can contribute to LEED objectives. Write CSI standard specifications that ensure the quality and sustainability of paper composite panels in their projects.

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Waste as a Resource, to Build is to Restore: The Paradigm Shift in the Built Environment

1 AIA LU | HSW Hour | SD | GBCI | Sponsor: Caragreen

Description: Green, sustainable, healthy. These words are being thrown around the building industry, becoming mundane and commonplace. What more can we do? First, we need to look at what we have done. We have created without consequence, designed without regard for our waste. Our world is increasingly becoming a landfill. Now what? We need to Create Better. By thinking of our waste as a resource, using our buildings to restore the environment, and by optimizing our designs to minimize our impact, we can restore the beauty of the natural world while continuing to prosper. This presentation details how to accomplish this and join the movement to Create Better.

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