

BUILDING AND CONSTRUCTION TECHNOLOGY

Fall 2018 BCT Lecture Series



Monday, October 1 | 4:00-5:15 | 170 Design Building

Designing with Mass Timber

Marc Rivard, SE, PE

Regional Manager at WoodWorks, an initiative of the Wood Products Council

Wood Products Council provides free project assistance as well as education and resources related to the design of non-residential wood buildings. Mr. Rivard's background in Structural Engineering coupled with 15 years of relevant design experience using all of the major building materials, allows him to provide practical and cost effective solutions for Architects and Engineers.

Monday, October 15 | 4:00-5:15 | 170 Design Building

Building at the Edge of Sustainability

Jonathan A. Wright, Wright Builders

Living Building Challenge project goals are to achieve the highest standard of renewable and resilient design. Constructing these buildings presents the most rigorous of challenges. Under the direction of Mr. Wright two of these buildings exists in our Amherst neighborhood, R.W. Kern Center & Hitchcock Center for the Environment.

Monday, October 29 | 4:00-5:15 | 170 Design Building

Designing Energy Procurement Strategies

Zac Bloom, M.S., LEED Green Associate

Interweaving the complexities of budgeting and sustainability for the energy procurement strategies of universities and large institutions requires a combination of expertise and prognostication that must respond to continually changing technical environment and the volatility of local, national and global politics.

Monday, November 26 | 4:00-5:15 | 170 Design Building

Designing to Net Zero Energy and Beyond

Steven J. Strong, President of Solar Design Associates, Inc.

Led by Mr. Strong, named by TIME Magazine in 1999 'Environmental Hero of the Planet', Solar Design Associates, Inc. has pioneered the integration of renewable energy systems with environmentally responsive building design in projects in the U.S., Europe, Asia, Africa, the Middle East, Canada, the Caribbean, and Latin America.

Lectures are free and open to the public. AIA & USGBCI CES credits are available.

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> Mass Timber Construction: Products, Performance and Design

Olver Design Building



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R. W. Kern Center



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Building at the Edge of Sustainability
Jonathan A. Wright, Wright Builders

Mr. Wright, a graduate of Hampshire College, has been an active regional leader in sustainable design and construction since 1976. The firm he co-owns, Wright Builders, Inc., recently completed two Living Building Challenge projects (R.W. Kern Center & Hitchcock Center for the Environment) achieving the highest standard of renewable and resilient design and construction. His upcoming book *Spirit of the Makers* will be published by Ecotone Press in 2019. His journalism has spanned several decades, and in 2018 his poetry and photograph collection *Season of Dreams* joined the 2014 poetry collection, *After the Rain*.

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UMass Amherst Combined Heat & Power Plant



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Designing Energy Procurement Strategies
Zac Bloom, M.S., LEED Green Associates

Mr. Bloom originally joined Competitive Energy Systems (CES) in 2012 as a Business Development and Account Manager and was soon promoted to Director of Sustainability & Renewables. Now CES's Vice President, Head of Renewables & Sustainability, Mr. Bloom primarily consults with universities and large commercial customers on energy procurement strategies, budgeting, sustainability, energy benchmarking and CES's proprietary Utility Tracker. Prior to joining CES, at UMass Amherst, Mr. Bloom focused his studies on energy benchmarking and data visualizations for large data sets associated with building's resource consumption profiles.

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First Net Zero Energy College Academic Laboratory



Monday, November 26 | 4:00-5:15 | 170 Design Building
Designing to Net Zero Energy and Beyond
Steven J. Strong

Mr. Strong is President of Solar Design Associates, Inc., an Engineering and Architectural firm dedicated to environmentally responsive buildings and the engineering and integration of renewable energy systems to power them. Over the past 4 decades, Mr. Strong has earned the firm an international reputation for the pioneering integration of renewable energy systems with environmentally responsive building design, completing projects in the U.S., Europe, Asia, Africa, the Middle East, Canada, the Caribbean, and Latin America. The firm's Zero-Net-Energy projects include a multi-story commercial office building in Seattle that meets the Living Building Challenge – hailed as the 'Greenest Building on the Planet' by the New York Times and, the King Abdullah University of Science and Technology - the largest project to receive LEED platinum and the first university to be designed from the ground up to be fully solar-powered. In 1999, TIME magazine named Mr. Strong an 'Environmental Hero of the Planet'.

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