

AIA KY/AIA IN 2020 Convention Webinar Series

Details and schedule for presentations / A total of 17 LUs may be earned. 12 HSW / LUs are available.

Thursday, August 6th at 4:00 pm EDT – Tony Costello, FAIA will lead the presentation - ***Creating a Civic Space Dedicated to Peace on the Ball State University Campus-REVISED 1 HSW/LU***

The early weeks of 2020 saw the arrival of the Corona virus that has totally consumed how we conduct our lives ... both personal and professional. Among our pursuits is finding “peace of mind” as both an individual and member of our local and global communities. However, our country has dealt for the past two decades with the epidemics of senseless mass shootings on our university campuses followed by peace vigils and marches. Historically, the shooting-death of four students on the Kent State campus on May 4, 1970, forever solidified college campuses as the seminal location for promoting peace within our communities. This includes the establishment on campuses of centers and academic departments dedicated to peace and conflict studies such as the one at Ball State University, located in Muncie, Indiana, which established its Center for Peace and Conflict Studies in 1988. In 2017, the Center embarked on a project to create a “civic space on campus” to celebrate peace and grieve when conflicts take innocent human lives. This presentation will follow the 3-year, personal and professional journey by the architect / sculptor ... with commentary by the client ... who was commissioned to program, plan, and design of the Ball State University Peace Plaza.

Tuesday, August 11 at 11:30 am EDT – Mark Trier, AIA will lead the presentation - ***Resilient Daylight Strategies - 1 HSW/LU***

How do architects create more resilient buildings in the face of environment change? And how do they provide social resilience by improving safety and security? Various resilient daylighting strategies are examined in relation to these two questions. The paradox of maximizing natural light into a structure while “hardening the envelope” to be resilient in the face of natural disasters, blackouts, and terrorism is explored in regards to the latest technology of materials in windows, skylights, and glazing. Adaptability of these systems is illustrated on how they can accommodate change over the life span of the building. Also discussed is current energy code requirements, structural mandates for shelter in place, and occupant safety for these various glazing systems.

Thursday August 13th at 4:00 pm EDT - Christopher Manzo, AIA LEED AP will present - ***REUSABLE ARCHITECTURE-TOWARD A NEW ARCHITECTURE UTILIZING APATIVE REUSE 1 AIA LU***

It has been 100 years since Le Corbusier penned the seminal manifesto “Towards a New Architecture: Guiding Principles.” His focus upon shared communal values, basic design aesthetics, ‘mass produced’ housing, and the burgeoning ‘new spirit’ of industrialized building has animated much of the design and construction industry over the previous century. The world is now full of buildings most of which are inefficient in their energy usage, wasteful in their material usage, ugly in their appearance, and, frankly difficult to re-use over time. Much, if not most, future architectural work will be the Adaptive Re-use of this existing building stock. What if we redressed the existing design process and fundamentally altered the way we practice architecture by considering the future in the design work of today? What if instead of creating new work ‘ex nihilo’ based solely on personal vision, we used a set of guiding principles, derived from Adaptive Reuse strategies, in creating future work that could continuously be used easily over hundreds of years for a variety of future programmatic needs? This presentation will focus upon the articulation, exploration, and implementation of design principals and their potential impact in creating Reusable Architecture©.

Tuesday August 18th at 11:30 am EDT - Ricardo Álvarez-Díaz, AIA will present - **Thrive, Survive or be Extinct: How to Grow Your Practice before and after Covid-19 1 AIA LU**

On September 17, 2008, two days after the fall of Lehman Brothers, all our projects were canceled or put on hold. We were riddled with fear. Fear of the unknown, of failure, fear of a financial catastrophe...We knew then that we had no mechanism or system that would help us understand how to be proactive instead of reactive. That experience forced us to reinvent our business model to one that can help anyone take control of their destiny instead of “hoping for the best”. Since then, after living through several natural disasters and a world pandemic, our learnings seeks to inspire architecture professionals to take control of their future and disrupt the traditional “wait and see” architecture business model. This presentation was designed to provide a successful roadmap, so we as professionals can all push for a more entrepreneurial focus in our practices so we can Thrive...not only Survive.

Thursday August 20th at 4:00 pm EDT – Janet McCabe, director of the Environmental Resilience Institute at Indiana University and a professor of practice at the IU McKinney School will present - **Using Downscaled Climate Projections to Plan a Resilient Built Environment 1 HSW LU**

Attend this session to learn about two new tools from Indiana University’s Environmental Resilience Institute – the Hoosier Resilience Index and FutureWater. The Index helps communities understand how they will be affected by more frequent heavy precipitation events, floods, and extreme heat events. The tool pairs locally downscaled climate projections with actionable items that communities can employ to determine how resilient they currently are and how they can leverage their built environment, planning, and land use to pursue further resilience. FutureWater provides annual and monthly precipitation, soil water content, groundwater recharge, streamflow and more metric projections for Hydrologic Unit Codes (HUC) 8, 10, and 12 in the Wabash River Basin. Attendees will learn how to use these tools to obtain localized climate projections, help articulate risk communication, and provide data for informing best practices.

Tuesday August 25th at 11:30 am EDT – John Waters, EFO. MA, MS will present - **Automatic Sprinklers in Existing Buildings 1 HSW LU**

As fires change, so must our concept of fighting them. Major fires have forced changes in our building codes, but they are not applicable to existing buildings. Recent fires such as the Grenfell Tower in London (72 fatalities), the Marco Polo Fire in Honolulu (4 fatalities), the Ghost Ship Fire in Oakland (36 fatalities) and the Cathedral of Notre Dame in Paris clearly demonstrate the need for installing fire sprinklers in existing buildings. This program will present the current code requirements for retrofit, examine the concept of “Engineered Life-Safety Systems” in relation to automatic fire sprinklers, assess the environmental impact of structure fires with and without fire sprinklers and, finally, will evaluate the economics of such installations.

Thursday August 27th at 4:00 pm EDT – Nick Rogers, PE, and Sarah Lamere, AIA, LEED AP BD+C, will present - **A laboratory for WELL and Sustainable Learning 1 HSW LU**

The nation’s first WELL v2 Gold Educational Laboratory, Western Kentucky University’s Ogden College Hall redefines “WELLness” and sustainability for science facilities. Seeking to replace a 1960’s laboratory building,

this design incorporated lab spaces, collaboration spaces and opportunities for interdisciplinary collaboration between majors. The building's design embraces "Science on Display," an element that inspires students to engage in their environment and practice critical thinking while studying scientific concepts. Project stakeholders participated in an integrated design process that challenged the status quo and inspired the University's decision to strive for WELL v2 Gold, even within tight budget constraints. The team's innovation also led to the pioneering decision to lower fume hoods, resulting in better air quality and reducing the building's energy consumption by 50%. The health-focused building offers optimal air quality and maximizes building occupants' safety, health and overall wellness. Informational displays throughout Ogden College Hall encourage students to consider the benefits of healthy living and transform the building into a teaching tool. In this session, learn how CMTA WELL Project experts and RossTarrant Lead Architect Sarah Lamere leveraged the synergy between WELL, LEED and high-performance design to enhance student success, wellness and safety for building occupants.

Tuesday, September 1st at 11:30 am EDT – Rachel Worley, AIA will present - ***Starting and Maintaining a Successful Architecture Practice 1 AIA LU***

Whether it's been a longtime dream, you have an entrepreneurial-heart or you are just tired of working for "the man", you're feeling ready to start your own architecture firm. We'll look at some keys to getting your firm off the ground and successful for the long term. Having a firm last nearly 10 years and do over a million dollars in business we'll review practical tips and tricks through the lens of my personal successes and failures.

Thursday, September 3rd at 4:00 pm EDT - Jeffrey Johnson, AIA will present – ***The Somewhere Project 1 HSW LU***
The University of Kentucky School of Architecture's Somewhere Project Studio has investigated the postindustrial landscapes of Appalachia, speculating on the "reclamation" and transformation of a former coal mining site into a new landscape and site for a cultural institution. With the decline of the coal mining industry in Kentucky at the beginning of the 21st century, and the necessary transition of the global economic system away from carbon and towards renewable energy sources, the question becomes how to address the legacy of extractive industries economically, aesthetically, ecologically, socially, and in terms of land use. The Somewhere Project Studio has considered new ways of using former coal mining sites and has proposed a new contemporary arts institution, simultaneously developing both architectural designs and a site scale design to integrate this program into a transformed landscape.

Tuesday, September 8th at 11:30 am EDT – Matthew Brooks, AIA will lead the presentation - ***Fabritecture – The Future of Architecture and Fabrication 1 AIA LU***

As children, to many of us the word "fabricated" meant we were in trouble. You may share memories of the stern parental reference of an outlandish story or an unsanctioned creation. But now, the word fabrication means something quite different to most designers. To recent graduates of architecture schools, fabrication is synonymous with the digital design movement that employs such tools as CNC machines and 3D printers. And while much of their fabrication work in school was primarily learning the processes and methods of modelling, the output of their work remained scaled representations of architectural solutions.

Looking forward, however, we see much more potential for the processes, methods, and tools to not only produce true architectural building materials and components at 1:1 scale, we see a hybrid way of thinking that

could revolutionize how we see, think, and make architecture. Fabritecture. Right now, it's a made up or "fabricated" word, like a crazy, outlandish idea or Quentin Tarantino movie title. But literally it is a combination of fabrication and architecture that leverages more synergy as a sum, than of its parts within the design and making community. And while we are just scratching the surface of its feasibility, logic, and implementation...we see an entire new discipline of architecture emerging that takes us back to our primitive roots as master builders. This presentation will articulate how innovative design technology can redefine the process by which architects/makers create and fabricate the built environment. This presentation will provide an historical context to what and why we make things, the transformational effects the computer has had on our design process and how we make the buildings and objects in our studio. Additionally, the presentation will show how the design and making process can be utilized on a community level to bring in stakeholders and broaden the outreach of the "architect".

Thursday, September 10th at 4:00 pm EDT - Daniel O. Ware, AIA, will present - ***Building Envelope Design for Healthcare 1 HSW LU***

Building Envelope Design for Healthcare projects, that are intended to last 50 to 100 years, require special attention to detail throughout design and construction. The use of redundant waterproofing strategies is integral for a watertight building envelope that will last. This Course highlights the building envelope design for the Shriner Hospitals for Children Medical Center in Lexington, KY. The attendee will learn how to properly design and oversee construction for envelope systems for healthcare projects.

Tuesday, September 15th at 11:30 am EDT - Anthony Harvey, PE will present - ***Practical, Code-Compliant Detailing for Mid-Rise Wood Structures 1 HSW LU***

With an increase in mid-rise wood-frame buildings, more designers are seeking information on code-compliant and constructible detailing. Many are unsure of the code's requirements for details, specifically at the intersection of rated assemblies and where structure and fire protection meet. This presentation will focus on common detailing issues and areas of misunderstanding—including fire-resistance rating continuity, allowable uses of wood framing in shaft and fire walls, and fire safety principles associated with the intersection of two rated assemblies. Mid-rise wood-frame opportunities and code-specified building sizes will also be reviewed, followed by discussion of detailing code requirements, code compliance, and rationale for approval with an emphasis on constructability and practicality.

Thursday, September 17th at 4:00 pm EDT - Yash Pinapati, Program Manager, and Craig Burcham, Project Manager, Willdan, Contractor for Duke Energy will present - ***Cost-Effective Remote Facility Improvement Planning through Virtual Energy Analysis 1 HSW LU***

Identifying opportunities to make facility improvements and reduce operating costs is challenging when there is limited time or ability to conduct a physical site visit. This session will demonstrate how virtual energy analysis provides building owners and design teams valuable information on existing building performance and cost-effective ways to save without needing on-site access. Beginning with an overview of the traditional energy audit process and current physical obstacles we face, the presentation illustrates how virtual energy audits address these issues without compromising the accuracy of the analysis and provide actionable results. Two case studies will be presented to demonstrate the value virtual energy analysis brings to different phases of the design process: the first will show how a design team used a virtual analysis during the design phase of a renovation to understand the cost-effectiveness of upgrading certain equipment already in the planned project scope; and the second explains how a building owner without a budget or project scope used a virtual analysis to understand which improvements to prioritize for the next budget cycle.

***TWO WEBINARS on Tuesday September 22

Tuesday, September 22nd at 11:30 am EDT – Diana Brenner, FAIA, will lead the presentation - ***HOW DOES TRAFFIC SAFETY AFFECT ARCHITECTS 1 HSW LU***

Many construction professionals aren't aware of the regulations affecting building construction in an urban setting. When there are sidewalks with pedestrians, both Americans with Disabilities Act (ADA) and the Manual on Uniform Traffic Control Devices (MUTCD) standards apply. The Architect, Contractor(s) and Owner could all be at risk if accidents happen and the site protection and/or traffic control is not installed or maintained appropriately.

Tuesday September 22 at 4:00 pm EDT – Pam Harwood will lead the presentation - ***Case Studies in Mass Timber Design: The Architect's Role in Design, Optimization, and Environmental Resiliency 1 HSW LU***

Mass timber as a material capable of design excellence is at the forefront of architecture today. Beyond aesthetics, the environmental resiliency of mass timber provides the industry with an integrated system that creates the least negative impact on the environment. Mass timber is a renewable resource that sequesters greenhouse gasses and is manufactured at much lower energy intensity than other materials. While the sustainable argument for the use of mass timber is clear, the economics of its production, distribution and construction applications are often misunderstood. A distinct benefit as a building material is that mass timber panels and components can be installed by a wide labor force more easily and in less time. This reduces costs and helps with industry labor shortages. The flexibility afforded by mass timber design options and precise building envelopes, reduces energy consumption. The inherently contemporary nature of mass timber demands an engagement of best practices in design and construction. In a comparative case study format, we will feature architects, engineers, fabricators, and built projects whose designs best illustrate the environmental resiliency, structural optimization, high performance envelopes, and functional beauty of wood in general and of mass timber specifically. Overall, this presentation seeks to elevate the use of wood in outstanding design by both practitioners and students and to promote an advanced understanding of mass timber in the Midwestern region.

Thursday, September 24th at 4:00 pm EDT – James Darnell, RCDD, OSP, VP Information & Communications Technology, R.E. Dimond and Associates will lead the presentation - ***Trends in Technology 1 HSW LU***
Discussion about Trends in Technology will focus on the historic path of Technology from the mid 1970's into the future. The evolution of packet-based communications systems has consumed the electronic communications industry and greatly influenced the educational arena: from the introduction of telephones in the classroom to the re-purposing of physical security from facilities group to IT.

Additionally, guest speakers Jason Starkweather, Technology Director at Brownsburg Community School Corporation, an All A district for the past seven years, will present case studies on Technology in the K-12 classroom and Tim Hill, R.E. Dimond and Associate's Vice President of Electrical Engineering will share a case study about Outside Plant redundant fiber ring which provides the most advanced voice, data and video services for Sweetwater, the world's leading online music technology and instrument retailer located in Fort Wayne, IN.

Tuesday, September 29th at 11:30 am EDT – Christopher Toddy, AIA will present- ***Small Firm Resiliency 1 AIA LU***
Maintaining firm prosperity, relevancy and resilience in a changing social-distancing, economic, staffing, and technological environment are paramount for Kentucky and Indiana architectural firms, especially those with one-to-nine staff. AIA is your most important resource for professional resiliency and advancement, and the AIA national member group – AIA Small Firm Exchange (SFX) – works on your behalf to communicate needed resources to firms. Join us in a conversation to discuss small firm resiliency and to discover new resources and initiatives that support your firm's success.