



2023 K-12 Education Seminar

APRIL 18, 2023

Vistatech, Schoolcraft College, Livonia, Michigan

'Back to School' garners up images of new challenges, renewed friendships, and even a bit of apprehension. Amid recent pandemic woes and ongoing political debates regarding curriculum and safety, architects are challenged to remain steadfast in leading clients and communities to solutions that nurture, protect, and inspire our precious students. No easy task, but certainly one we want to explore with you as we convene the 2022 AIA Michigan K-12 Education Seminar.

Please join us on as we explore strategies and best practices to optimize design of K-12 education campuses and facilities. Architects and allied professionals will share success stories ranging from economic incentives to sensory-based design. From safe school strategies to optimal energy solutions.

AIA Michigan recognizes that educational facilities pose unique challenges and opportunities for our members. We look forward to your support of this renewed focus on school design by joining us for a half-day session of candid dialogue among peers.

Agenda

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| 8-8:30 | Networking & Coffee |
| 8:30 - 9:30 | Breakfast Speaker: Safer Schools by Design
Matt Slagle, AIA |
| 9:30 - 10:30 | When the Tail Wags the Dog...
Paul Twigg, CTS & Tracy Taylor, NCIDQ, LEED AP, EDAC |
| | BREAK |
| 10:45 -11:15 | Lessons from Lane Tech Sensory Well-Being Hub
Matt Guinta, AIA & Alana Buynak |
| 11:15 - 11:45 | Moving Your Campus Toward Net Zero and Carbon Neutrality
Aaron Frantz, PE |
| 11:45 -12:15 | Energy Policy Act (EPAAct) 179D Tax Deduction
David Ely |
| 12:15 -1:15 | Michigan Codes Update
Jon Paradine & Keith Lambert, PS |

PROGRAM

Safer Schools by Design

Matt Slagle, AIA

How to make schools safer is an age-old question. Prior to the pandemic, conversations around safety were mainly focused on the physical wellbeing of students and staff. Since 2020, as the mental health crisis among students has grown, the conversation has broadened to include emotional wellbeing. As architects and designers, the desire to create a “safer” school can feel overwhelming and insurmountable. Through their work with more than 100 school districts, public safety institutions, and security organizations, TowerPinkster has developed strategies and programs that support a safer school environment. Matt Slagle, AIA, and Director of K-12 Education, will share the latest trends in school safety, talk about the importance of emotional wellbeing, and discuss approaches TowerPinkster has taken to integrate safety in ways that are both visible and invisible to students and staff.

When the Tail Wags the Dog...

Paul Twigg, CTS & Tracy Taylor, NCIDQ, LEED AP, EDAC

Furniture and technology driven by curriculum and security are critical for safe and successful learning environments. White box spaces intended for flexibility can lead to change orders and design revisions during construction when furniture and technology systems are often finalized. Each district’s approach to curriculum and security are unique; addressing these elements early on are crucial to ensuring project success and that the owners goals are met.

Lessons from Lane Tech Sensory Well-Being Hub

Matt Guinta, AIA & Alana Buynak

Through HKS’s innovative initiatives “Month of Service” and “Citizen HKS”, a multidiscipline team looked at addressing neurodiverse students. Believed to be the first of its kind in an American public high school, the Sensory Well-Being Hub was designed and fabricated at no cost to Chicago taxpayers, and opened in September 2017. It was funded by donations from HKS, HKS employees, the American Society of Interior Designers, the Lane Tech Alumni Association and in-kind donations from HKS’ generous design industry partners, as well as contributions from scientific advisors who helped advance the design concept.

This presentation will review the Sensory Well-Being Hub, and the design, which was being considered locally for Lamphere School, locally here in Madison Heights, Michigan.

PROGRAM

Moving Your Campus Toward Net Zero and Carbon Neutrality

Aaron Frantz, PE

To meet the challenges of the AIA 2030 Commitment and other client-driven sustainability goals, architects and designers will require a wealth of new skills and ways of approaching the built environment. Building owners will learn options in order to prioritize according to desired scope, time, budgets, and more. This presentation will cover the basics that a building professional (architect, engineer, owner, operator) will need to know when engaging in conversation on a Net Zero or Carbon Neutral project, including the language of describing sustainable features, the role of integrative design in minimizing energy use, and how changes to occupant activities and expectations may be required to meet energy goals. The presentation will cover both the current state of technology and utility grids, and things to know as both evolve.

Energy Policy Act (EPAAct) 179D Tax Deduction

David Ely

During this course, we will discuss 179D and how it can benefit the architects as the designers of commercial and residential buildings. Designers can be allocated the tax deduction for buildings including Government Buildings, Not-For-Profit Organizations, Churches, Hospitals, Private Schools and Universities, Private Foundations, and Political organizations. We will overview how these buildings can qualify for the tax deduction, and why it benefits you to design an energy efficient building.

Michigan Codes Update

Jon Paradine & Keith Lambert, PS

This session will cover the 2015 Michigan Building Code, codes currently being processed for updates, mass timber, school locking devices, and 1937 PA 306, Construction of School Buildings Act.

SPEAKERS

Matt Slagle, AIA, serves as Director of K-12 Design for TowerPinkster. Matt has worked on more than \$100 million of school facilities that improve the experience of students and faculty. He brings a vast amount of experience in educational facility design at both the K-12 and university levels. A registered architect in both Michigan and Colorado, Matt received his masters degree in architecture from the University of Colorado. His expertise in building design is complemented by his highly developed skills in space planning and graphic design. Matt has been awarded the AIA Grand Rapids and AIA National Young Architect of the Year Award. A sought after speaker on safe school design, Matt has been interviewed by CNN, Detroit News, The Washington Post, Newsweek, WZZM, Fox 17, and others. TowerPinkster is a 200+ person design firm founded in 1953. It has grown significantly over the years and was recently ranked as Top 25 K-12 Design Firm by Building Design + Construction. In 2022, TowerPinkster was named Firm of the Year by AIA Michigan.

Paul Twigg, CTS leads Barton Malow's Technology Services group providing planning, design, and implementation management with an emphasis on technology and security to support current and future learning environments. Paul holds degrees in Computer Engineering and Education from the University of Michigan and is pursuing a doctoral degree in education with an emphasis on student learning and technology bond programs. He has been involved in the design of numerous facilities including K-12, libraries, university facilities, and conference centers. His team works closely with school district staff, architects, and the construction manager throughout all phases of a program to ensure that technology and security are coordinated with the facilities program, overall budget, implementation, and schedule.

Tracy Taylor, NCIDQ, LEED AP, EDAC For over 25 years as the founder and CEO, Tracy Taylor is the entrepreneurial force behind t2 designs. With a BFA in Interior Design from the University of Michigan, Tracy values continuous education and obtaining the certifications and credentials needed to stay at the forefront of the ever-changing design industry. She is a Goldman Sachs 10,000 Small Business (10KSB) alumni. Tracy also gives back by volunteering her time on various boards including CREW Detroit where she has been a committee chair and sat on the board, as well as SMPS SE Michigan where she is the current President after serving on the board and committees for several years. Tracy and the t2 designs team has been creating spaces for K-12 and higher education since she started her firm in 1996. Known for creating environments that ignite curiosity and nurture innovation, t2 designs creates K-12 environments where students can learn, grow, and engage. With all types of classroom environments, including STEM and STEAM spaces, Tracy and her team engage with all stakeholders, including students and staff, so that these spaces can adapt to various learning styles and curriculums.

SPEAKERS

Matt Guinta, AIA, WELL AP has put his professional skill-set to use in volunteerism, teaching and architecture. A design specialist, project manager and proven leader, he works well in complex team partnerships. Matt serves as a client advisor and process facilitator. His ability to collaborate with diverse teams and client user groups adds value, expertise and trust that a client's vision will become a built reality within their budget and schedule. His experience ranges in scale and function, and sector. He can bring knowledge gained from his work within the commercial, urban mixed-use, healthcare and education fields.

Alana Buynak Although coming from an educational background in architecture, over the course of her decade long career Alana has gravitated towards a more human centered scale of design. With the understanding that space directly influences its inhabitants, her solutions look to holistically create experiences that are as aesthetically pleasing as they are efficient, innovative, and beneficial to users. With experience ranging from healthcare, sports and entertainment, hospitality, residential and commercial, Alana's design practice is well-rounded and forward thinking, consistently striving to incorporate a basis of research, justice, and sustainability across all sectors.

Aaron Frantz, PE is an Associate in PBA's Corporate and Government market sector group. As a mechanical engineer, his responsibilities include providing mechanical design, equipment sizing and selection, and energy modeling for LEED and Net Zero compliance. Comfortable with complex and multidisciplinary projects, Aaron has advanced skills in AutoCAD MEP and Autodesk Revit, a building information modeling (BIM) software. His 7 years of project experience at PBA has primarily focused on new construction high rise, corporate office building renovations, adaptive reuse, and municipal facilities. Aaron presented to the 2022 Summer MiAPPA Conference "Moving Your Campus Towards Net Zero and Carbon Neutrality" and was a featured speaker at the September 2022 Detroit ASHRAE meeting. Aaron holds a Master of Science in Mechanical Engineering degree from the University of Michigan and is a licensed engineer (PE) in the State of Michigan.

David Ely Energy Design Service Systems, LLC (EDSS) is a woman-owned and women operated lighting company that offers lighting design, supply and energy services that provide clients with a unique-brand experience and improved aesthetics, while saving energy and money. David Ely brings more than 40 years' experience to his role in one of the nation's fastest-growing energy solutions companies. His inspirational leadership and extensive knowledge in energy efficiency enhances EDSS's capacity to help companies across the nation to learn the advantages of 'going green' and presents clients with the right incentives (including 179D federal tax deductions for commercial building owners and designers of government entities, not-for-profit organizations, Hospitals, private schools/universities, private foundations, political organizations and churches) to make their projects more affordable.

SPEAKERS

Jonathon Paradine has been with the Bureau of Construction Codes (BCC) for 19 years. While with the Bureau, Jonathon has held many different roles. Starting in, what was formally known as the Plan Review Division, then moved to the Mechanical Division as an Inspector and Assistant Chief and then the Chief of the Building and Permits Section, and to current role as the Division Director over Inspections In Jonathon's current role, he has had the opportunity to represent the Bureau of Construction Codes at the national level in the code development process. Jonathon serves on two Code and Standard Committee's with the International Code Council. Jonathon also works closely with the rule's analyst on the adoption of codes and rules that BCC oversees.

Keith Lambert, PE is the Deputy Director for the Bureau of Construction Codes. He has worked for the Bureau since 2003, serving a Bureau Director from 2016 thru 2022, Deputy Bureau Director from 2011 until 2016, and Director of the Office of Land Survey and Remonumentation from 2008 until 2011. Before joining the Department of Licensing and Regulatory Affairs' Bureau of Construction Codes, Keith worked 8 years in the surveying and engineering industry with private sector firms and the Michigan Department of Transportation. In 2003, he obtained his professional surveyor license from the State of Michigan. Keith earned a B.S. in Surveying Engineering from Ferris State University in 1998 and graduated with an A.A.S. degree in Business Administration from Delta College in 1994.