AIA Michigan

# 2023 K-12 Education Seminar

## April 18, 2023

Vistatech, Schoolcraft College, Livonia, Michigan

Register>

'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.

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## Agenda

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| 8-8:30 | **Networking & Coffee** |
| 8:30 - 9:30 | **Breakfast Speaker: Safer Schools by Design**<br>Matt Slagle, AIA |
| 9:30 - 10:30 | **When the Tail Wags the Dog...**<br>Paul Twigg, CTS & Tracy Taylor, NCIDQ, LEED AP, EDAC |
| | BREAK |
| 10:45 -11:15 | **The Power of Play**<br>Nandita Mishra, Intl. Assoc. AIA, ALEP, LEED AP &<br>Laura C. Casai, IIDA, LEED AP |
| 11:15 - 11:45 | **Moving Your Campus Toward Net Zero and Carbon Neutrality**<br>Aaron Frantz, PE |
| 11:45 -12:15 | **Energy Policy Act (EPAct) 179D Tax Deduction**<br>David Ely |
| 12:15 -1:15 | **Michigan Codes Update - Department of Fire Services**<br>Joe Forro, Pat Riney & Rick Day |

# 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.

## The Power of Play

**Nandita Mishra, Intl. Assoc. AIA, ALEP, LEED AP & Laura C. Casai, IIDA, LEED AP**

"We don't stop playing because we grow old; we grow old because we stop playing." - George Bernard Shaw

Research tells us that play helps manage stress, boosts physical health, and supports overall wellbeing. As designers of educational spaces, you understand how powerful play can be for students. We hope today to take a small break from our everyday roles and do something that channels our inner child and brings us all a little happiness. In this session we will harness the power of play as adults, engaging in movement and games that will remind us all that play is important to the creative and learning processes. Come play with us!

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# 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 (EPAct) 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 - Bureau of Fire Safety

**Joe Forro, Pat Riney & Rick Day**

This session will discuss construction separations from occupied areas, proper exiting during construction and phasing projects from the field perspective.

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# 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.

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# SPEAKERS

**Nandita Mishra, Intl. Assoc. AIA, ALEP, LEED AP** is a Vice President and Senior Education Market Strategist at TMP Architecture, focusing on educational planning, design, and project management of PreK-12 educational facilities. She is a thought leader and certified educational planner through the Association for Learning Environments (A4LE) where she is a past Chapter President. She is also involved with the AIA Committee on Architecture for Education. Her work is further supported by her teaching background.

**Laura C. Casai, IIDA, LEED AP** is a Vice President and Senior Education Market Strategist at TMP Architecture, focusing on educational planning and interior design of PreK-12 and college/university facilities. She has led the interior design efforts on many significant educational projects, resulting in functional, flexible, and vibrant environments that support curriculum goals. Laura is an NCIDQ Certified Interior Designer and a LEED Accredited Professional.

**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.

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# SPEAKERS

**Joe Forro** has an extensive history in fire protection, including firefighting, fire prevention and communications and operations management. Forro joined the United States Air Force to serve in AF Fire Protection. After Basic training and Fire School at Chanute AFB in Rantoul Illinois he was stationed at McGuire AFB NJ where my fire department career received its roots. He then worked as a contingency firefighting instructor, This training provided state-side firefighters the tools to be able to operate affectively in a war time environment. Continuing his service, Joe gained experience from all over the world, from Alaska to the D<Z in South Korea. Following the Air Force, Joe served as the Fire Chief for the Milwaukee International Airport. After settling down in Mid-Michigan with his wife and four kids, Joe began working for the Bureau of Fire Services as the State Administrative Manager where he has been busy identifying efficiencies and expounding on them to create a better experience for our customers, both internal and external.

**Pat Riney** is currently the Bureau of Fire Services - Plan Review Division Manager.
He comes to BFS by way of serving with the Grosse Pointe Shores Public Safety Dept as a Public Safety Officer. Prior to Grosse Pointe Shores, Pat was the Executive Director for the Michigan Arson Prevention Committee. At the MAPC, Pat's many duties included coordinating the activities of the 40 members, overseeing the Arson Reward program which offered the reward for tips and information that lead to the arrest of arsonists, and developing, promoting and testifying for arson prevention legislation, establish and coordinate fire investigation training. He is retired after more than 28 years with the West Bloomfield Fire Department. Pat worked as a Firefighter/Paramedic, promoted to Fire Inspector and Deputy Fire Marshal. He ended his career with the rank of Fire Marshal. As Fire Marshal, he was responsible for the oversight of all things related to fire prevention (plan review, inspections, fire investigations, and public education, etc.) within the West Bloomfield Fire Services jurisdiction which included the tri-cities of Sylvan Lake, Keego Harbor and Orchard Lake. Pat received a Bachelor of Science degree from Madonna University, attended the Farmington Hills Fire Academy and the Macomb Police Academy. He is a Certified Fire Protection Specialist and a State of Michigan Certified Fire Inspector.

**Rick Day** is the Bureau of Fire Services Region 3 Interim State Fire Marshal Supervisor. Rick has been a State Fire Marshal Inspector with the Bureau of Fire Services for over 22 years. He is a NFPA Certified Fire Inspector, NFPA Certified Plan Examiner and a Registered State of Michigan Plan Reviewer of Fire Protection Systems. Rick is a Principal Voting member of 16 NFPA Technical Committees. He has decades of experience inspecting hospitals, surgery centers, hospices, schools, colleges and many other state regulated facilities. He also has extensive experience completing over 500 CMS (Centers for Medicare and Medicaid Services) Deemed Status Surveys of Hospitals, Surgery Centers, and Nursing Homes.

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