

Pre-Conference Education

EDspaces is a great place to earn your Continuing Education Units (CEUs). To determine which sessions qualify for AIA credit, please see LUs listed under each session. Learning objectives for each session can be found at www.ed-spaces.org/education.

AIA LU = American Institute for Architects Learning Unit

HSW = Health, Safety, Welfare credit

IDCEC = Interior Design Continuing Education Council CEU

For questions regarding EDsessions credit, please contact Adrienne Dayton at adayton@edmarket.org or (800) 395-5550, ext. 1031.

Tuesday, November 6

Learning Lab: Safety & Security

1:00 - 4:45 PM

**Peace of Mind Classroom
by Van Auken Akins Architects
Meeting Room 18**



Moderator: Karina Ruiz, AIA LEED AP BD+C, Principal, BRIC Architecture

Explore how school districts of diverse backgrounds promote safe learning environments by adopting policies and programs to build student/school/staff/community connections, monitor programs and data (such as attendance, suspensions and caseloads), fund initiatives at appropriate levels, and communicate regularly about school safety to the community.

1:00 - 2:15 pm

21st Century Safe School Best Practices



Presenter: Michael Yorio, SSI Guardian

Studies confirm the role safety plays in learning outcomes which can impact a child's life journey. While there are many ideas and theories on improving school safety, it is imperative that evidence-based best practices and solutions are the focus and criteria. These measures are proven to enhance school safety without inherent risk or unintended consequence often associated with unsubstantiated methods or products that are untested. Through the implementation of best practices, academic leaders can create the safest learning environments possible, helping prepare our future leaders for success.

2:15 - 2:30 PM

Networking Break

2:30 - 3:45 pm

**A Holistic Approach to
Campus Safety**



**Presenters: Steven Turckes, Principal, K-12 Education Global Practice Leader, Perkins+Will
Phil Santore, Managing Principal of DVS Security, a division of Ross & Baruzzini**



According to CNN, there has been an average of one school shooting every week in 2018. These violent acts have school communities reassessing their campus security practices. Viewpoints on solutions vary ranging from fortress-like facilities to more transparent environments. Learn how facilities can balance transparent, collaborative environments and defensible spaces that respect different cultures and educational goals and gain a greater understanding of how safety design measures can be enhanced by technology. Understanding that it is impossible for design to eliminate all threats, they will focus on minimizing threats, using examples from Sandy Hook School and others to highlight holistic security design.

3:45 - 4:00 PM

Networking Break

4:00 - 4:45 pm

**Getting to Solutions on School
Safety, Group Discussion**



**Presenters: Karina Ruiz, AIA LEED AP BD+C, Principal
Dr. Pam Moran, Executive Director, Virginia School Consortium for Learning**



**Brian Minnich, AIA, LEED AP BD+C
GWWO Architects**

The final session of the Learning Lab will allow participants to contribute their unique perspectives and experiences to a solutions-oriented approach session on school safety and security. In a multi-disciplinary, facilitated session, AIA CAE leaders will help break down the issues into various components and lead small group discussions to identify potential solutions. The overall goal of this closing session is to find ways to overcome any identified obstacles and actualize the solutions in a comprehensive way.

If you are not pre-registered for this event, please check at the EDspaces Registration Desk to see if space is available.

Credit: AIA LU/HSW=3

Pre-Conference Education

Tuesday, November 6

Educational Distribution Symposium & Reception

Channel Management Strategies for Success

1:30 - 5:00 PM

Meeting Room 16

1:30 PM

Welcome/Opening Remarks



Moderator: Tom Brennan, President, School Outfitters; EDmarket Chair of the Board

Tom Brennan will set the stage for the afternoon program with his observations on the future of distribution and how EDmarket can be a key resource for your future business success.

1:45 PM - 2:30 PM

Disruptive Forces Shaping the Distribution Landscape



Presenter: Mark Hubbard, President of Paragon Furniture, EDmarket Equipment Manufacturer Chair

How are changes in distribution channels affecting the marketplace for educational furniture and equipment? This industry overview will explore how traditional channels of distribution are impacted by online purchasing, the shifting roles of purchasing decision makers, private label distributors, and new alternative channels. Mark Hubbard will share his views on shifting go-to-market strategies and how field sales reps can maintain their relevance and profitability.

2:30 - 2:45 PM
Networking Break

2:45 PM - 3:45 PM
Reimagining the Role of the Distributor



Moderator: Mark Lewis, President/CEO, United For Growth and Shiffler Equipment Sales; EDmarket Distribution Council Member



Panelists: Scott Fischer, Major Accounts Manager, National Business Furniture

David Grunseit, Director and Owner, NorvaNivel

Larry Maddox, Vice President of Sales, National and International Account; Virco Inc and



Sharad Mathur, VP New Markets, The HON Company

With the landscape defined, the attention will turn to building a mutually-advantageous partnership between the manufacturer and sales channel. Speakers will discuss the expectations of channel partners in supporting achievement of their growth and profit goals, and answer questions about managing the multiplicity of channels to deliver consistent service to your customers.

3:45 - 4:00 PM
Networking Break

4:00 PM - 5:00 PM
Trends in School Purchasing



Moderator: Karen Volner, National Field Sales Director, Furniture, Staples Business Advantage; EDmarket Distribution Council Chair



Panelists: Alex Belanger, Assistant Superintendent Facilities Management and Planning, Fresno Unified School District, Fresno, CA



Mickie Dietrich, Director of Purchasing, Alvin ISD, Alvin, TX



Jean Personius, Purchasing Specialist, Eastern Carver County

Schools, Chaska MN and **Diana White**, CPM, CPSM, Senior Buyer, University of North Florida, Jacksonville, FL

The final segment of the Symposium will focus on the end-customer perspective on channel disruption and how it is affecting procurement habits, product delivery and customer engagement. A panel of school purchasing officials will discuss the bid process, vendor selection, digitization, reducing costs, and working with stakeholders to create a concurrent, collaborative procurement program.

5:00 - 6:00 PM
Networking Reception

Sponsored by the EDmarket Distribution & Manufacturers Councils

Meeting Room 4

The Educational Distribution Symposium is included in EDmarket Member Full Conference Distributor registrations, but you must RSVP to reserve your spot. Others can register for \$100 per person. If you are not pre-registered for this event, please check at the EDspaces Registration Desk to see if space is available.

Thanks to our generous sponsors:



Education Sessions

Wednesday, November 7

8:00-9:15 AM

Empirical Research Evidence: A Guide for Design Solutions

Peace of Mind Classroom
by Van Auken Akins Architects
Meeting Room 18

Jim French, Global Sector Leader for K12 Education Practice, DLR Group

Lennie Scott-Webber, Owner & Principal, IN-SYNC: Education Research + Design

A robust Student Engagement Index® survey design has now completed three phases of iteration and study over two years. Grades nine-12 were studied in the USA. Reliability and validity of each question for both students and educators was high. Across the sample student engagement as a predictor of student success continued to obtain statistical significance; growing the body of research on designs built for active learning. This team will share new research insights and design principles developed to influence design solutions by this firm — taking ‘research off the shelf’ — building environments supporting 21st century learning and well-being behaviors.

CREDIT: AIA LU/HSW, IDCEC

Disruption. Change is not Familiar, it is Opportunity

Natural States of Learning
Classroom by A4E
Meeting Room 20

David Stubbs II, President/CEO, Cultural Shift Educational Consultants

Nothing of value may be easy. If we are truly interested in Change we must begin to contemplate unfamiliar territory. The presenter will provide insight continuing to explore lessons learned from recent modifications of educational environments that are truly pushing the limits of what we envision as “school”. This interactive conversation regarding change will place emphasis on understanding the personal hurdles that can affect or inhibit change. Thought provoking questions & statements will encourage attendees to begin acquiring a different set of lenses supporting the “WHY” as we continue to create and initiate change in evolving educational environments.

CREDIT: AIA LU, IDCEC

STE[A]M Programs: Engaging Architecture in Education

Stage Up Learning by DLR Group
Meeting Room 22

Patrick Thorpe, (allegedly)

Explore the curriculum, student response and educational value of the Florida Foundation for Architecture’s initiative to integrate architecture into primary education through interactive exercises from a typical eight-week

in-school program. Build a spaghetti and marshmallow bridge, experience a client/architect interview, demonstrate complex ideas through diagrams, and present your ideas to your peers. This session is not for those who are shy!

CREDIT: AIA LU

Measuring Space Performance: Design Process and Lessons Learned at UMD

Transformative Learning by OnPoint
Meeting Room 24

Kristen Ambrose, Associate Principal and Adjunct Faculty, Ayers Saint Gross and the University of Maryland

Discover the strategies that influence classroom design at the University of Maryland through an interactive design activity. The session addresses solutions to the challenges of effective collaborative learning environments at the undergraduate level and will summarize criteria and best practices to support student engagement. Participants will review the teaming modules and prototype classrooms and experience how increasing the square-footage per student accommodates evolving collaborative pedagogical approaches. The session will focus on various ways to measure the effectiveness, performance and utilization of classroom space for an understanding of the return on investment (ROI) of active learning environments.

CREDIT: AIA LU

9:30-11:00 AM

Opening Plenary Session:

A New Architecture for 21st Century Learners

Ballroom



Michael Horn, Chief Strategy Officer, Entangled Group

Kick off EDspaces with a vision of learning that transforms schools as we have known them. Respected author and influencer, Michael Horn, an Amazon best-selling author, will challenge us to explore the opportunity to blend online learning in schools and disrupt the classroom beyond the factory model of education with a personalized approach. This will require rethinking the fundamental architecture of our schools to create new spaces for different kinds of learning and presents a transformational moment in education that is happening right now.

Credit: AIA LU, IDCEC

BIO: Michael Horn is Chief Strategy Officer at the Entangled Group, an education technology studio, and is the co-founder and a distinguished fellow at the Clayton Christensen

Institute for Disruptive Innovation, a non-profit think tank. He speaks and writes about the future of education and works with a portfolio of education organizations to improve the life of each and every student. He is the author and coauthor of multiple books, white papers, and articles on education, including the award-winning book *Disrupting Class: How Disruptive Innovation Will Change the Way the World Learns*, the Amazon bestseller, *Blended: Using Disruptive Innovation to Improve Schools*, as well as the recently-published companion book, *The Blended Workbook*.

Sponsored by



8:00-9:15 AM *cont'd*

Exploring the Future of Learning: Insights from an Educator-Designer

Next Generation Learning Space by NorvaNivel + Gould Evans
Exhibit Booth 101

David Jakes, Founder, David Jakes Designs LLC

In this session, learn about the emergent and shifting landscape of education from a 27-year veteran educator-turned designer. Explore the social, creative and instructional trends that are reshaping teaching and learning and how schools are rethinking how they prepare students for careers and for life. Gain valuable insights from both a teacher and leadership perspective on how expectations for a new and contemporary student learning experience shape the work of educators and in turn, influence and shape your work and the schools you design.

CREDIT: AIA LU, IDCEC

Facilitating K12 Teachers as Designers of the Learning Environment

Cultivate Classroom by MA+ Architecture
Exhibit Booth 145

Lynda Hayes, Director, P.K. Yonge DRS K-12 Lab School/University of Florida

During the 2011-12 school year, P.K. Yonge Laboratory School faculty partnered with Ramski & Co. interior designers to collaboratively map anticipated learning routines to identify appropriate, flexible furnishings to support teaching and learning in a soon-to-be-open, state-of-the-art public elementary school building. These same strategies are now being applied to support sixth-12th grade teachers as they prepare to move into their new school building defined by flexible learning spaces to support mastery-based, personalized learning.

CREDIT: AIA LU, IDCEC

11:30 AM-12:30 PM

School of Dreams: Designing and Planning with a Vision for Pedagogical Success

Peace of Mind Classroom by Van Auken Akins Architects
Meeting Room 18

Dr. Kadee Anstadt, Assistant Superintendent, Perrysburg Schools;

Danielle O'Grady, Interior Designer, Associate, TMP Architecture

Join us as we break down a common misnomer in educational design that "if you build it, they will come" to re-think what it truly takes to create a learning environment that is

forward-thinking and yet adaptable to future needs. This interactive session will explore how our team focused on weaving together curriculum and design, while being guided by a student-centered approach. We will discuss our team's compelling vision for innovation and our methodologies for pushing the boundaries on planning and design.

CREDIT: AIA LU, IDCEC

Safe and Secure Schools — How Do We Get There?

Natural States of Learning Classroom by A4E
Meeting Room 20

Chris Gibbs, Principal, K-12 Education Designer, DLR Group;

Shamus O'Meara, Managing Partner, O'Meara Leer Wagner & Kohl

Creating a safe and secure learning environment takes more than cameras and a double entry vestibule. The psychology of space design in schools can directly impact the ever-important, often missing, feeling of being safe by building occupants. In addition, it is important for school systems to complete a thorough risk assessment preceding the development of a thorough Crisis Management Plan. As community assets, the creation of safe school environments is the responsibility of the entire neighborhood while providing immeasurable benefits to the entire community.

CREDIT: AIA LU

New Bridge: STEM Elementary Shifting the Paradigm of Student Achievement

Stage Up Learning by DLR Group
Meeting Room 22

Ken Crawford, Director of Support Services & Athletics, Ogden School District

Brian Parker, Vice President, MHTN Architects

New Bridge Elementary School opened in 2016 as a STEM elementary school to replace an aging elementary school located in one of the most economically disadvantaged and culturally diverse neighborhoods in Ogden, Utah. Learn how the district's STEM curriculum and focus informed the design process and see the resulting school. As the school shifted the paradigm of curriculum and the school was specifically designed to support it, student engagement and test scores improved dramatically. In fact, test scores in Language Arts, Math and Science nearly doubled its first year of operation. This session will share how rethinking curriculum coupled with a facility to support student engagement dramatically improved learning.

CREDIT: AIA LU

Collaborative Purchasing: Lowering the Unit Prices on School Furniture

Transformative Learning by OnPoint
Meeting Room 24

Barbara Hansberry, Director of Strategic Planning, Massachusetts School Building Authority

Jack McCarthy, Executive Director, Massachusetts School Building Authority

Budgeting to outfit a new school with FF&E is expensive. The Massachusetts School Building Authority is exploring an initiative to assist MA school districts to save money. Specifically, organizing school districts that are opening new schools during the same time period to conduct a collaborative purchase for furniture items will increase the volume of their orders. The simple theory is that schools can lower the unit price on items by combining purchases and increasing the volume of an order for these furniture items.

CREDIT: AIA LU

A View from the Top: The Owners Perspective on Construction

Next Generation Learning Space by NorvaNivel + Gould Evans
Exhibit Booth 101

Brent Redmon, Construction Coordinator, Gwinnett County Public Schools

As a school system "Owners Representative" for the local school board, I am engaged, educated on the construction process, and come with very high expectations. This session will address the direct impact of both a quality project team and exactly who should be on that team. The presentation will also discuss the strength of the contract documents and exactly what should be included. Specifically, I will discuss their real influence on a construction project and will offer real-time documentation of projects that struggled with bad documentation and what you can do about it going forward.

CREDIT: AIA LU

Are We Out of Our Minds?

Cultivate Classroom by MA+ Architecture
Exhibit Booth 145

Dr. Robert Dillon, University City Schools

The field of brain research is in its golden age. It continues to produce insights about the human learning experience. This new knowledge is looking for a home in today's learning spaces, but it is struggling. This session is designed to translate the best of mind brain education research into practical steps that all teachers can use to support modern student learning. Having the time to read and analyze the best of the research in this area is never going to be a part of the professional learning for all teachers, but this session can be a huge step forward.

CREDIT: AIA LU

1:30-2:30 PM

The Impact of Learning Environments on Student Engagement

Peace of Mind Classroom by Van Auken Akins Architects
Meeting Room 18

Lizzy Asbury, Founder/CEO, Transcend4
Dalane Bouillion, Principal/Educational Planner, VLK Architects
Yanira Oliveras-Ortiz, Assistant Professor, The University of Texas at Tyle

Experience a lively discussion among three researchers who completed a study of students and teachers in two schools who moved from an older, outdated learning environment into a new, innovative replacement campus. The panel will explore student and teacher perceptions about the impact the newly-designed learning environment has on student engagement. The attributes of space valued by learners and educators will be explored. The panelists will be moderated by an interactive architect who values the questions of the audience and will incorporate audience preferences for the conversation.

CREDIT: AIA LU

Sustainable Libraries: Gulf Gate Library - Sarasota County

Natural States of Learning Classroom by A4E
Meeting Room 20

Robbie Gronbach, Willis Smith Construction
Phil Trezza, Senior Vice President/Principal Director of Preconstruction, Harvard Jolly Architecture
Amy Weber, Vice President, Harvard Jolly Architecture

Completed in 2015, the new 26,000 square-foot Gulf Gate Library features automated book sorting technology, a dividable meeting room equipped with a "hearing loop" for the hearing impaired, children's and teens' areas, group study rooms, and comfortable reading areas. The building received LEED Silver Certification and one of the USGBC Florida Gulf Coast Chapter's 2015 LEEDership Awards for Outstanding Project of the Year and met the 2030 Challenge. Sustainable design features include LED lighting, a highly efficient HVAC system, water efficient plumbing fixtures, locally produced and recycled building materials, and electric vehicle charging stations.

CREDIT: AIA LU/HSW, GCBI, IDCEC

Reimagining Library Spaces: Transforming Your Space on Any Budget

Stage Up Learning by DLR Group
Meeting Room 22

Diana Rendina, Media Specialist, Tampa Preparatory School

Many of our school libraries still look like they did 50 years ago, yet they are no longer quiet, dusty book repositories. Librarians are leading the way in technology use and modern pedagogy in our schools — now we need to update our spaces to match. In this session, we'll discuss strategies for redesigning and rethinking the physical space of libraries, including practical and budget-friendly changes that can be implemented right away. We'll look at examples of a variety of library spaces that went through makeovers and discuss creating interactive environments including makerspaces.

CREDIT: AIA LU

Community Engagement: A Transformative Approach to University Planning & Development

Transformative Learning by OnPoint
Meeting Room 24

Dana Muller, AIA, LEED AP, Design Realization Leader and Senior Associate, Gensler

This session will discuss best practices for engaging stakeholders in the university planning and development process to achieve both university goals and enhance community involvement. A case study on Lynn University (Boca Raton, FL) will explore the process of developing an innovative campus master plan, the success of community involvement, and the resulting sustainable developments to demonstrate a unified and future-focused campus master plan. The session establishes a framework for connectivity and expansion to demonstrate the value of meaningful stakeholder engagement in campus development for attracting the best staff and students and realizing the academic vision.

CREDIT: AIA LU

Boost Student Performance with Activity-Permissive Learning Environments

Next Generation Learning Space by NorvaNivel + Gould Evans
Exhibit Booth 101

Josh Kerst, Principal Ergonomist, Safco and Mayline

The evolving art and science of teaching demonstrate that an active mind can benefit from an active body. This session will explore how incorporating movement options into the classroom environment can fulfill the human need to be active and why student

movement is so valuable to boost student performance. We'll explore the drivers behind the shift to more Activity Permissive Learning Environments (APLE) and provide practical tips and highlight performance results. Data will be shared on preferred daily movement ratios for postural transitions, flexible seating options, student performance impact measures and the overall ROI's of APLE classroom designs.

CREDIT: AIA LU/HSW, GCBI

Bringing Flexible Learning to a NYC School District

Cultivate Classroom by MA+ Architecture
Exhibit Booth 145

Jennifer Shanks, Instructional Technology Director, NYC Department of Education

The presentation will focus on District 31 in Staten Island, New York and how funding is assisting schools in transforming their learning spaces. The presenter will discuss how six schools became involved with ICLE work, some focus on new learning spaces, and a district wide Hall of Science that has now become a flexible learning space for over 70 NYC public schools.

CREDIT: AIA LU

3:30-4:30 PM

A Look at Educational Facilities with Resilience in Mind

Peace of Mind Classroom by Van Auken Akins Architects
Meeting Room 18

Mark Madorsky, President, LEAF Engineers, A PBK Company

Educational Facilities are asked to serve our communities in many ways. Operational from early morning to late at night, providing Next Generation learning opportunities, physical and mental health and well-being, community experiences within the arts and sciences, and competition sports, and shelter and rescue from natural and man-made disasters. This session will look at how school buildings can be designed to be physically, socioeconomically and ecologically-resilient to acute and chronic adversities.

CREDIT: AIA LU/HSW, GCBI

"One-Size-Fits-All" Not Wanted; Solutions for Your District Challenges

Natural States of Learning Classroom by A4E
Meeting Room 20

Olivia Graf Doyle, Design Principal, Architecture for Education

Opportunities abound in your future makerspace, cafeteria or unused patch

of grass to inspire and enhance lifelong learning! By involving teachers, students, and the community in the planning process, "one-size-fits-all" can be avoided, instead creating a space that incorporates flexibility and creativity. Attendees will learn through activities and case studies how we solved critical issues at various school projects, ranging from new campuses to additions, to renovations and beyond. Challenges, such as integrating multiple cultures, addressing geography & climate, promoting equity in underserved communities, boosting student achievement, improving security measures, and utilizing "lost" space, are solved with innovative solutions.

CREDIT: AIA LU

The Innovation Campus: Student-Driven Learning for the NEXT Century

Stage Up Learning by DLR Group Meeting Room 22

Scott Krenner, *Project Designer/Architect, Associate Principal, Cuningham Group Architecture, Inc.*
Shawna Trujillo, *Principal, Pathways Innovation Center/Roosevelt High School – Natrona County Schools*

For the 2017 eclipse, NASA selected Pathways Innovation Center as the epicenter for viewing and broadcasting the experience to the rest of the world. High School students in Casper, WY, are being exposed to these amazing experiences thanks to a new state-of-the-art, innovation-based campus. After years of planning and concern by the community that graduates weren't prepared, career exploration became the core of this school. Its four academies feature state-of-the-art innovation labs, giving students hands-on, real-world experiences and optimism for their futures. According to the principal, "this has become a place of happiness for many kids who have struggled."

CREDIT: AIA LU

Reimagining School by Reimagining the Design Process Transformative Learning by OnPoint Meeting Room 24

Karina Ruiz, *Principal, BRIC Architecture*
David Jakes, *Founder, David Jakes Designs LLC*

The design process is traditionally used to create the places and spaces of school. What if we broadened the context of how design was used to address more than the design of a building? How could design be used to rethink pedagogical approaches, the school day, how technology is used or any of the other challenges that face today's schools? This session explores what an expanded role for design would mean for teaching and

learning and how design can become a catalyst for comprehensive and innovative educational change and improvement.

CREDIT: AIA LU, IDCEC

Virtual Reality's Impact on Learning Spaces Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

Susan Davis, *Professional Development Director, ATLIS*
Chad Lewis, *Director of Technology, Tampa Preparatory School*

VR is coming! How can schools transform their physical spaces into learning environments that go beyond 3D? Attendees will leave with an understanding of the role VR is playing in independent schools and where they are headed with this new technology. This presentation will include one school's story of its evolution from VR explorations via mobile carts in the classroom to reinventing a storage closet as a six-station IDEA (Innovation, Design, Explore, and Apply) lab for VR content creation. We will look to the future of VR in schools as its impact broadens to include enhanced training opportunities, reinvented school tours, and redefined learning spaces that "tear down the physical walls" of where learning can go.

CREDIT: AIA LU

Creating Effective Sustainability Programming in Schools Using Data Analytics

Cultivate Classroom by MA+ Architecture Exhibit Booth 145

Ryder Delaloye, *Director of Curriculum, Assessment, and Professional Development, Whitefish School District*
Brian Seitz, *VP of Marketing and Communications, Buddy*

Whitefish School District is located next to Glacier National Park. It is the first in Montana to receive US Department of Education Green Ribbon recognition. Through the measurement and analysis of data derived from cloud-based technology and easy to install sensors, behavioral and facilities adjustments are embraced. Data-driven planning and decision making have shaped school culture. Through strategic partnerships, technology is utilized to provide real-time data that serves to shift entrenched behaviors. Participants receive a high-level overview of school district sustainability programming and an outline of specific planning steps for successful technology integration to foster school change for sustainability.

CREDIT: AIA LU, GCBI

Thursday, November 8

8:00-9:15 AM

School Safety: Making our Schools Softer, Not Harder Peace of Mind Classroom by Van Auken Akins Architects Meeting Room 18

Brian Minnich, *Project Manager, GWWO, Inc./Architects*
Pamela Moran, *Executive Director, Virginia School Consortium for Learning*
Karina Ruiz, *Principal, BRIC Architecture*

In the wake of the school shooting at Marjory Stoneman Douglas HS, many community members are looking to architects, educators and administrators to implement the latest "target hardening" security measures. While it is critical that schools be designed to provide for greater access control and increased surveillance, this is simply not enough. Join architects and a district superintendent as they discuss the role of design to contribute to creating "softer" schools with a focus on connection, transparency, and well-being.

CREDIT: AIA LU/HSW

Learning Transformed: Designing Learner-Centered Spaces for Tomorrow, Today

Natural States of Learning Classroom by A4E Meeting Room 20

Eric Anderson, *Associate Partner, ATS&R planners/architects/engineers*
Kathy Funston, *Director of Strategic Partnerships and Pathways, Burnsville-Eagan-Savage Public School District*
Dave Helke, *High School Principal, Burnsville-Eagan-Savage Public School District*

ISD 191 (Burnsville, MN) embarked on a bold journey to significantly improve learning experiences for a richly diverse community. Join us to learn how we envisioned, planned, and implemented a "reimagined" high school for over 2,500 students. We will explore how the physical redesign of space opened doors to non-traditional classrooms, Makerspaces, flexible collaboration areas — changing both teaching and learning! We will also showcase how our wall-to-wall Pathways model provides students with early college credits and/or industry credentials. Partnerships with over 200 businesses, including our architectural firm, have ensured students just don't graduate, they graduate with a plan.

CREDIT: AIA LU, IDCEC

8:00-9:15 AM *cont'd*

Designing Classrooms for the Maker Mindset

Stage Up Learning by DLR Group Meeting Room 22

Shana Avery, Gifted Education Teacher, Oakland Avenue Charter School

Karen Colon, STEM Teacher, Oakland Avenue Charter School

Mark Hubbard, President, Paragon Furniture

Gone are the days of the teacher lecturing at the front of the classroom to students seated in neatly aligned rows of desks. Today's student-led classrooms are bustling with movement and activity. So, what does the ideal student-led classroom look like? What are the benefits of a dynamic classroom? How does the incorporation of makerspaces positively impact student engagement and achievement? This presentation will address the importance of providing classroom designs and furnishings that promote creative and critical thinking.

CREDIT: AIA LU

Environmental Design for Engaged Attention & Optimal Learning

Transformative Learning by OnPoint Meeting Room 24

Dr. Zoe Mailloux, Pediatric Occupational Therapist, Thomas Jefferson University Occupational Therapy Department

Children spend a large portion of their time in classrooms that tend to offer limited sensory supports. This workshop presents emerging research on environmental designs that can enhance attention and engagement. In addition, strategies for optimizing learning environments and practical solutions to everyday challenges that occur for educators and therapists who interact with and support children will be discussed. Variable seating options will be available for attendees to explore their own individual preferences. Attendees who are interested in considering ways to optimize learning environments will find this information useful.

CREDIT: AIA LU, IDCEC

Sponsored by



Creating Entrepreneurial Learning Environments Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

Gary Schoeniger, Founder and CEO, Entrepreneurial Learning Initiative

Entrepreneurial attitudes and skills have become essential for anyone to thrive in today's rapidly changing and highly complex world. Entrepreneurship is a process of discovery, one that requires participants to take ownership of their ideas as well as their ability to learn. In this session, participants will examine four key learning models that foster ownership and increase engagement while cultivating curiosity and creativity, critical thinking and complex problem solving, collaboration - skills that drive entrepreneurial success. Participants will also explore best practices in facilitation to help move learners from dependent to self-directed learners.

CREDIT: AIA LU, IDCEC

Sponsored by



9:30-11:00 AM

Thursday Plenary Session

Creating the Schools We Need

Ballroom

Diana Laufenberg, Executive Director, Inquiry Schools

Chris Lehmann, CEO, Science Leadership Academy

Learn from two education innovators as Chris Lehmann and Diana Laufenberg share their vision for creating learning institutions where all members of the community — students, teachers, and administrators alike — see themselves as active learners. EDspaces attendees will learn about principles enabling networked learning, promoting research, creativity, communication, and collaboration to help prepare students to be functional citizens within a modern society. Their model includes discussions of key concepts including treatment and use of technology, learner-centric classrooms, and teachers as mentors who bring real-world experiences to students. "

CREDIT: AIA LU, IDCEC

BIO: For 16 years Diana Laufenberg was a secondary social studies teacher most recently at the Science Leadership Academy. Her practice has deep roots in real-world, experiential education. Prior to her work in Philadelphia, she was an active member of the teaching community in Flagstaff, AZ where she was named Technology Teacher of the Year for Arizona and a member of the Governor's Master Teacher Corps. In 2013, she partnered with Lehmann to start Inquiry Schools as Executive Director of the non-profit, working to create and support student-centered, project-based learning environments.

BIO: As the founding principal and CEO of the Science Leadership Academy, Chris Lehmann leads the strategic network of three progressive science and technology schools in Philadelphia, PA. A pioneer of the School 2.0 movement internationally, the Academy is an inquiry-driven, project-based, 1:1 laptop school and was recognized by Ladies Home Journal as one of the Ten Most Amazing Schools in the U.S., an Apple Distinguished School from 2009 through 2013, and it is the Dell Computing Center of Excellence for Technology in Education. Chris is co-author of *Building School 2.0: How to Create the Schools We Need*, co-editor of *What School Leaders Need to Know about Digital Technologies and Social Media*, the author of the education blog *Practical Theory*.



8:00-9:15 AM *cont'd*

What Constitutes an Enriched Environment?

Cultivate Classroom by MA+ Architecture Exhibit Booth 145

Lou Whitaker, EdD, President, Florida ASCD

Neurological research is telling us that when it comes to learning, the actual environment is much more important than we ever realized. How do we match the proper teaching strategy with the best-suited learning space? Classrooms must be student-centered. The brain is a social organ and will function best when given the opportunity to collaborate when solving complex, higher-order thinking problems. Preparing students for the future requires us to have a clear understanding of what neuroscience is telling us about our brains and how we learn. Dr. Whitaker's presentations are high-energy and leave you wanting more information!

CREDIT: AIA LU

11:30 AM-12:30 PM

Dollars, Sense and Design: Know the Worth of Your Investment Peace of Mind Classroom by Van Auken Akins Architects Meeting Room 18

*Konrad Judd, Chief Design Officer, Huckabee
Kerri Ranney, Vice President of Educational Practice, Huckabee*

K-12 facilities are worthy of our investment. Encouraging a culture of intention and belief in the worth of these transformational environments maximizes that investment for long-term gain. This session looks at the value of design and how to leverage each investment through intention. Whether you're a designer, an administrator, a facility manager or educator, every decision is a chance to realize impact. However, if you're not asking the right questions, exploring the right avenues and leveraging every dollar, you miss critical opportunities. We'll look at research and case studies to illustrate how a culture of intention gives dollars more sense.

CREDIT: AIA LU, IDCEC

Every Inch a Learning Space Natural States of Learning Classroom by A4E Meeting Room 20

*Robert Douglass, Senior Associate, Voith & Mactavish Architects, LLC
Jessica Douglass, Tower Hill School*

In a 27,000 square-foot school building, two single family homes worth of space might end up as "circulation." Why do we allow

these spaces to remain un-programmed? The shared ownership of these spaces provides a student-centered opportunity to teach basic principles of social justice: challenging power dynamics, allowing for marginalized voices, and providing places that encourages us to interact ethically and humanely. Helping students parse joint ownership and trust in these types of spaces is critical to today's students. The recently-completed Kenneth Kai Tai Yen Humanities Building at the Pennington School serves as primary case study."

CREDIT: AIA LU, GCBI

Executive Level Sustainability Leadership in K-12 Schools Stage Up Learning by DLR Group Meeting Room 22

*Bridgitte Alomes, Co-Founder and CEO, Natural Pod-Better Learning Environments
Jennifer Seydel, Ph.D. Executive Director, Green Schools National Network*

Creating a culture of sustainability can lead to an ethic of excellence that permeates all aspects of a school district. An organizational commitment can expand operational initiatives that save costs and reduce ecological impacts; support equity and student achievement; and enhance social, emotional and physical health of all who work, learn and play in our schools. GSNN has partnered with Leith Sharp, Director of the Executive Education for Sustainability Leadership at Harvard's Center for Health and the Global Environment to translate this program for Executive Leaders of K-12 Schools. This interactive session will provide an experience for participants to explore and play with the multiple ways that the Sustainability Leadership can advance innovation in your school or school district.

CREDIT: AIA LU/HSW, GBCI, IDCEC

The Impact of Space on Student Outcomes Transformative Learning by OnPoint Meeting Room 24

*Melissa Pelletier, Education Research Editor, MDR
Jim McGarry, President/CEO, Education Market Association*

Does the physical learning environment impact learning? That is the overriding question the Education Market Association (EDmarket) and market research partner MDR, a division of Dun & Bradstreet, set out to determine in a new report being released in Fall 2018. MDR Education Research Editor Melissa Pelletier and EDmarket President/CEO Jim McGarry will share insights from this ground-breaking research based on a comprehensive survey of teachers and administrators. Each group was asked wide-ranging questions about their experience, challenges, and results of recent renovation or construction projects at

their schools. Come hear more about what the research has to say on the importance of space to 21st century learning.

CREDIT: AIA LU

Designing for High-Impact Learning Spaces Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

Mendy Claridge, Director of Market Programs & Sustainability, National Office Furniture

Education is being disrupted by many factors, including shifting expectations and the impact of new technologies. Schools are looking at their roles through a new lens. Leaders are rethinking the environments of the past, which placed students in the role of passive learners. They now have a vision of education that is freeing and encourages active participation. New teaching approaches demand new kinds of learning spaces to prepare today's students for the future. As content becomes more dynamic, schools and universities are looking at how content is delivered and what types of changes need to be made in learning spaces.

CREDIT: AIA LU/HSW

Musical Chairs: Enhance Learning, Simplify Procurement, and Ease Facility Maintenance Cultivate Classroom by MA+ Architecture Exhibit Booth 145

Stacey Crumbaker, Interior Designer, Associate, Mahlum Architects

As pedagogies evolve, furniture allows educators to develop flexible learning experiences responsive to individual learners. To establish consistency across their facilities, Seattle Public Schools refreshed their approach to furniture procurement, simplifying the process and aligning furniture selection with their precept to reach every student, in every classroom, every day. Individuals involved in selection, daily use, and long-term maintenance of furniture worked together to develop a catalog and procurement agreement supporting diverse learning activities and teaching styles, fostering a sense of community across the district, and addressing the physical needs of students and staff to support healthy and engaging learning experiences.

CREDIT: AIA LU

1:30-2:30 PM

Out of the Mouths of Babes, Student Voice Driving Vision

Peace of Mind Classroom by Van Auken Akins Architects Meeting Room 18

Steve Denny, Executive Director of Business Affairs, Winton Woods City Schools

Jeff Parker, Director of Visioning, SHP Leading Design

How does an urban-suburban school district serving several diverse communities develop a cohesive vision for future learning? They ask the experts – the kids! Students bring a fresh, fearless and frank perspective on what works and what doesn't. This session will detail the process of student-led design for project-based learning for Kindergarten through 12th grades. With the students' ideals in place as the foundation of the design, community members and educators rallied to create a learning environment that will best support learning and serve as a unifying center of the community.

CREDIT: AIA LU

Learning from the 70s: Past Impact with Collaborative Learning Environments

Natural States of Learning

Classroom by A4E

Meeting Room 20

Tania Caudill, Project Executive, PBK

Corrie Hood, Associate Principal, Huckabee

Educator Commissioning engages the building end users in all stages of the design and construction process, creating a community of teachers who are familiar with the building's next generation design elements and their purpose. School buildings are a valuable tool in the educator's toolbox as they help prepare students for jobs that still do not even exist. As with any other new tool, the most productive use happens after learning how the tool functions. Engaging teachers with their new spaces harnesses the full potential of next-generation environments, thus allowing students to be better equipped for jobs of the future.

CREDIT: AIA LU/HSW, GCBI

Hands Off My Play-Doh! Space, Furniture, & Early Childhood Design

Stage Up Learning by DLR Group Meeting Room 22

Brandea Morton, Interior Designer, DLR Group

Vanessa Schutte, K-12 Education Leader, DLR Group

Students in Pre-K through 5th grade are particularly sensitive to their environment. During this developmental time, a child's

learning style, including any learning impairments, begin to manifest as they interact with others and engage with the educational space. Early childhood development is a critical time to give students the tools that will guide them and teach them in a way that's specific to their individual learning styles and needs. Attendees of this session will receive critical insight into how dynamic design — from the space to the furniture — can strongly influence the way young children learn and grow.

CREDIT: AIA LU, IDCEC

Fab Labs & Makerspaces in Education

Transformative Learning by OnPoint Meeting Room 24

Greg Herker, Fab Lab Program Director Palmer Hamilton LLC

Luke Jumper, PHab Lab Training & Design Manager, Palmer Hamilton LLC

Fab Labs & Makerspaces are popping up in schools across the U.S. What are these spaces? Learn what is required to integrate academics, engage students and instructors, design the space, purchase equipment, and train staff. This session will give you a roadmap to getting started with a project-based learning space.

CREDIT: AIA LU

Inquiry as a Catalyst for Learning

Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

Diana Laufenberg, Executive Director, Inquiry Schools

Student participation and ownership in their education outcomes starts with instilling a sense of wonder and curiosity for their own learning. This does not come easily in a traditional pedagogy or learning environment. Privileging the student voice in the process is critical. Join me in a discussion of the overall strategy, a specific conversation about how to employ this strategy in the classroom and how to lead others in this transformation.

CREDIT: AIA LU

Designing FOR, WITH and BY the Community- Journey to Success

Cultivate Classroom by MA+ Architecture

Exhibit Booth 145

Jeff Hagan, Principal, Hord Coplan Macht

Sarah Rineer, Associate, Hord Coplan Macht

Escalating construction costs and tightening budgets are challenges school districts face to fund construction projects. These financial challenges collide with educational opportunities fueling a new breed of school design. As a rural, under-resourced district,

Dorchester County on Maryland's Eastern Shore, needs to optimize capital dollars to improve learning environments for students. Facing a seemingly impossible task to secure almost \$50 million to replace North Dorchester High School, county leadership and the design team employed a strategy to design not just FOR, but also WITH and BY the community. This school design project successfully leveraged community engagement to gain full support.

CREDIT: AIA LU, IDCEC

3:30-4:30 PM

Planning and Design Strategies to Maximize Equity and Opportunity

Peace of Mind Classroom by Van Auken Akins Architects Meeting Room 18

Steve Herr, AIA, Director of Design, Fanning Howey

Carla Remenschneider, RID, Director of Interior Design, Fanning Howey

Two new high schools, two very different communities and one Big Hairy Audacious Goal — to elevate 5,300 high school students toward college and career success. Join us to learn how Granite School District in Salt Lake City, Utah, is creating equitable and innovative high schools in two distinct neighborhoods — one a white-collar community and the other a blue-collar mining community. You will learn about the visioning strategies and stakeholder engagement processes used to create a shared vision by examining planning and design strategies that are promoting equity between the schools.

CREDIT: AIA LU

Impacts of Visual Media

Natural States of Learning

Classroom by A4E

Meeting Room 20

Corrie Hood, Associate Principal, Huckabee

Brianne Tomlin, Project Manager, Integrus Architecture

It is no secret that the way students learn today is significantly different than how they learned 10, 20, 30 years ago. We have come a long way from bookbags filled with textbooks and three ring binders; today students are assigned laptops for their school year, interacting with smartboards and transporting to digital environments through augmented and virtual reality. Laptops and monitors are incorporating videos and animations in the learning environment. Virtual and augmented reality headsets are transporting students to alternate digital environments. Holographic projections provide students three-dimensional access to long-distance subjects. In this presentation,

we'll explore the history of digital visual media and pinpoint ways to plan for future technologies as we design learning environments for future generations.

CREDIT: AIA LU

Designing for Change Stage Up Learning by DLR Group Meeting Room 22

Bryan Ballegeer, Education Leader, KI

Within this workshop, we democratize the practice of design thinking, and teach, by way of doing, a process that honors the rich tradition of a culture while driving human centered and situated innovation. Change work is hard, and without common language and drivers, born out of inclusion, understanding, and shared perspective, real systemic change is hard to sustain. Join us for an immersive learning expedition that inspires a practical and daily use of design thinking in how you design for change within the future of learning.

CREDIT: AIA LU, IDCEC

Sponsored by



Pushing "Boundaries" Using Brain-Powered Learning & Questioning the Status Quo Transformative Learning by OnPoint Meeting Room 24

LaVonna Roth, Lead illuminator/speaker, Ignite Your S.H.I.N.E.®

Preparing students for the real world is often talked about, but very little change occurs. It's time we make change happen. How? By putting the voice and interests of students at the top and testing at the bottom. Using a brain research lens and questioning the "way we've always done it." In this session, we will look at some of those stagnant ways and burst open the door to the future with some examples of those that are already making it happen. Get ready to identify and plan shifts you can immediately do back at your school or organization!

CREDIT: AIA LU, IDCEC

Enabling Constraints: Designing Less for Pedagogical Change Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

Raechel French, Educational Planner, DLR Group

The Innovative Learning Environments and Teacher Change (ILETC) study in Australia examines how educators utilize multi-modal, technology-infused, flexible spaces. This session explores case studies completed with

the ILETC through a Fulbright Postgraduate Scholarship on teachers shifting from traditional to innovative facilities. Shared among those doing this successfully was the purposeful absence of common artifacts of schooling – no teacher desks, less walls, no "classroom" ownership. We will examine the science behind these "enabling constraints" and how space and furniture, or the lack thereof, can nudge educators to shift pedagogy. Research will be shared and strategies applied through participants' own contexts.

CREDIT: AIA LU, IDCEC

Making Room for the Student Voice

Cultivate Classroom by MA+ Architecture Exhibit Booth 145

Pamela Dwyer, Board Member, Florida Association of Supervision and Curriculum Development and Principal, Oakland Avenue Charter School

In an education era that calls for student-led classrooms and 21st Century skill development, educational decision makers need to create space for children to explore their own voice through writing and self-expression. This presentation will review the critical areas of development within 21st Century Skill frameworks and align with research that supports process writing (self-expression) as a necessary component of balanced literacy. Through review of these valued practices, educational leaders can evaluate where room can be made in planning a future where classrooms buzz with student voice and access to innovative multi-media is direct in every classroom.

CREDIT: AIA LU

Friday, November 9

9:30-10:30 AM

Reimagining the Media Center: Central Hub to Distributed Creation Labs

Natural States of Learning Classroom by A4E Meeting Room 20

Judith Hoskens, Principal and Sr. Educational Facility Planner, Cuningham Group Architecture, Inc.
Scott Krenner, Project Designer/Architect, Associate Principal, Cuningham Group Architecture, Inc.
Tyler Whitehead, Registered Architect, Cuningham Group Architecture, Inc.

Schools across the country are seeing a dramatic transformation in their approach to traditional media centers. Originally meant to be a central hub of learning and

activity, Sartell took the radical approach of redistributing this space into three labs: Visual (video production and recording studio); Cloud (computer programming, graphic design and cartography); and Design (prototyping, laser cutters, 3D printers, and robotics). Learn how Sartell - St. Stephen Schools involved students and staff in reimagining and rethinking their "Media Center" making it a place where students want to be igniting their passion for learning and positioning them to achieve their best!"

CREDIT: AIA LU, IDCEC

District-Wide Classroom Improvement Plan Supports Curriculum & Well Building Concepts

Stage Up Learning by DLR Group Meeting Room 22

Brian Engle, Executive Director of Educational Technology, Glenview School District 34
Peggy Hoffman, Principal, FGM Architects Inc.
Ron Richardson, Principal, FGM Architects Inc.

Glenview School District 34 has eight aging facilities with both infrastructure and educational environment needs. Representatives from Glenview 34 will share the school board/community's perspective on the work, how the multi-phased efforts support curriculum and information related to the evaluation process/integration of WELL building concepts. Participants will learn how proposed improvements directly support inquiry based science instruction, hands on experiments & design and collaborative learning opportunities, and how WELL Building concepts improve student performance.

CREDIT: AIA LU/HSW, GCBI, IDCEC

Kids Say the Darndest Things! School Design by Students

Transformative Learning by OnPoint Meeting Room 24

Christine Schein, Digital Literacy Specialist, Colorado Department of Education
Greg Wilborn, Account Manager, OfficeScapes Schools

Remember the show? Children were asked questions by the show's host and were comically honest in their responses. Kids, when consulted, will tell you what they think and will give you the truth about their needs. So why aren't we tapping into their candor to design learning spaces? Join us as we explore students' visualizations of the ideal learning space through the process of Design Thinking and Experiential Design. Real-life examples of student school design requests will also be shared. If we ask, they will tell us!

CREDIT: AIA LU, IDCEC

9:30-10:30 AM *cont'd*

Creating Future Innovators through Creative Play and STEM Learning

Next Generation Learning Space by NorvaNivel + Gould Evans Exhibit Booth 101

David Flanigan, Director, Play Products, Ka-BOOM!

As the science, technology, engineering and mathematics (STEM) fields continue to expand, it will be paramount for children to develop the 21st century skills necessary to compete in tomorrow's increasing global economy. Youth must be able to approach challenges with creative solutions to successfully navigate our complex, ever changing world. Critical thinking, problem

solving, collaboration, and communication skills are also integral to the jobs of the future. Research shows that creative and active play helps to develop these 21st century skills. Unstructured or "free" play is important to school readiness and early childhood education, particularly during pre-school and elementary school, when children use "loose parts" to lay the foundation for various cognitive skills that are then regularly called upon in the classroom. We will explore how creative play can be used inside and outside the classroom to provide a STE(A)M rich learning environment. Rigamajig, a creative play learning system will be featured in the session.

CREDIT: AIA LU, IDCEC

Confluence — The Bridge between 21st Century Pedagogy and Facility Design

Cultivate Classroom by MA+ Architecture Exhibit Booth 145

Jill Ackers, Senior Education Consultant, Fielding Nair International (FNI)

Jay Litman, AIA, Partner, Fielding Nair International (FNI)

Our presentation identifies a key strategy for repairing the disconnect that has grown between the current "best practices," learning research, and the design of school facilities. Most schools are designed around architectural concepts that have little to do with education. "Confluence" is the term we now use to describe the union of Pedagogy and Facility Design in the creation of new schools that can address the needs of students and teachers in the 21st century.

CREDIT: AIA LU

First Time Exhibitors & New Member Exhibitors

FIRST TIME EXHIBITORS

Company	Booth #		Booth #
Action Storage Systems	1330	Lorell	754
AIS, Inc.	652	Motrex USA	645
Amazing Magnets	1708	Moving Minds	747
ARCONAS Corporation	643	MTS Seating	1351
Bintiva	1053	Mumble By Design	641
Bouncy Bands	952	MUZO	440
Boxlight	1347	Nightlock Lockdown	648
Desk Brazil	1730	Nook Pod	133
Falcon - Thonet	139	Origin Furniture, LLC	833
Freenotes Harmony Park	353	peerhatch	135
FrontRow	748	Polar King International	451
Greenlam America, Inc.	750	PowerGistics	831
Lakeshore Learning Materials	1226	PS Furniture, Inc.	1334
LOFTwall	1119	RichTech Creative Displays, LLC	1024
		Roseburg Forest Products	546
		Russwood Library Furniture	1620
		Solar Graphics	529
		Sound Tube Entertainment	348
		Total Plastics, Int'l	1729
		University Loft Company	1724
		Versa Concept LLC	137
		Wilsonart	1349
		Workrite Ergonomics	453
		Zhangzhou Jiansheng Furniture Co., Ltd	1147

NEW MEMBER EXHIBITORS

Company	Booth #		Booth #
9To5 Seating	340	Lakeshore Learning Materials	1226
Action Storage Systems Ltd.	1330	Loftwall	1119
Amazing Magnets	1708	Motrex Usa	645
Bintiva	1053	Mumble By Design	641
Bouncy Bands	952	Muzo	440
Classroom Seating Solutions	114	Nightlock Lockdown	648
Comfortek Seating	1431	Nook Pod	133
Desk Brazil	1730	Origin Furniture Llc	833
Experia Usa, Inc.	1726	Peerhatch	135
Greenlam America, Inc.	750	Polar King International	451
Jaypro Sports, Llc.	511	Polyvision Corp.	1634
		Powergistics	831
		Ps Furniture, Inc.	1334
		Russwood Library Furniture	1620
		Shuttlesystem	
		Db a Navetta De	1720
		Sound Tube Entertainment	348
		Total Plastics, Int'l	1729
		United Visual Products, Inc.	942
		University Loft Company	1724
		Versa Concept Llc	137
		Versteel	128