

# AIA Michigan Nineteenth Annual Educational Facilities Conference

## Conference Schedule Monday, October 10, 2011

7:00 to 8:00 a.m. **Breakfast**  
7:30 a.m. to 5:00 p.m. **Registration Desk Open**  
8:00 to 8:10 a.m. **Welcome – AIA Michigan**  
(Douglas Kueffner, AIA)  
8:10 to 8:20 a.m. **Conference Goals and Guidelines**  
(Mark Reile, AIA)  
8:20 to 8:30 a.m. **Conference Profile**  
(Michael Barney, CEFPI, CMAA, Consultant)

**Session #1 – Keynote Presentation**  
8:30 to 9:30 a.m.

**Renewing the Imagination of Schools and Learning**  
David Jakes, Jakesonline.org

It is more important now than ever for schools to celebrate their work and tell their stories. More importantly, it is a time to create new stories, in a new language, one based in imagination, promise, and in what learning and schools can and should be. We'll start that story by looking inside schools to understand the current reality of education, and then examine how opportunities for learning, as well as learners themselves, are changing in extraordinary ways. We'll then explore how these disruptive changes influence schools, and how school design professionals can support a new vision for schools and for learning.

9:30 to 9:40 a.m. **Break**

**Session #2 – Presentation**  
9:40 to 10:40 a.m.

**C.A.T. Lab - Is this the Classroom of the Future?**  
Thomas Hinken, Instructor, Montague Area Public Schools  
Curt Hansen, Principal, Montague Area Public Schools

Learn what the term "C.A.T. Lab" stands for and the planning that went into this unique instructional space. See how the space is being used and the technology involved in making it work successfully. See why the students feel this is their favorite class, how it motivates them and encourages collaboration. Learn the differences between the Middle School C.A.T. Lab, the High School C.A.T. Lab, and the Elementary C.A.T. Lab.

10:40 to 10:50 a.m. **Break**

**Session #3 – Presentation**  
10:50 to 11:50 a.m.

**Recent Changes at the Michigan Bureau of Fire Services**  
Adam Krouse, Plan Reviewer, Bureau of Fire Services

The Michigan Bureau of Fire Services (BFS) is required to review and approve all school plans before the construction starts. Mr. Krouse will review the application process and the fees related to review and inspection of a school construction project. Recent code changes that may affect your project design and materials will also be reviewed. Architects and Construction Managers involved in school construction will need to hear this presentation! School administrators will gain a better understanding of code rules developed to protect children in Michigan school buildings.

**Council of Educational Planners (CEFPI) Update** Robert N. Roop, CPD, LEED AP  
11:50 to 11:55 a.m.

Receive a report on the national and international resources available to support educational facility planning, with a brief overview of future Michigan Chapter activities.

**ACE Mentor Program of Michigan** Kristin Goodchild  
11:55 a.m. to 12:00 p.m.

The mission of ACE Mentoring (Architecture, Construction and Engineering) is to engage, excite and enlighten high school students to pursue careers in the integrated construction industry.

**Acknowledgement of Conference Sponsors** Lee Andrea, AIA  
12:00 to 12:15 p.m.

A personal thanks to and recognition of this year's sponsors!

12:15 to 1:20 p.m. **Lunch Break and Networking**

**Session #4 – Breakout Presentations. Your Choice!**  
1:30 to 2:30 p.m.

**4a Illuminating Lighting / Daylight Harvesting Design**  
Darko Banfic, LC, Senior Associate, Peter Basso Associates, Inc.

Lighting is interpreted differently and subjectively by our visual system. Our eyes communicate with the brain to derive conclusions about our surroundings, which in turn can affect or define our mindset, our health, our mood, our productivity. Architecture defines the spaces for people to occupy, and lighting helps the spaces become desirable places for performing tasks, socializing, relaxing, staying aware, sleeping, etc. Proper illumination for such spaces makes them favorable for users to occupy; yet most common overhead electric illumination solutions can be improper for the desired human "mindset" for the space. Natural daylight has a positive effect on the human mindset. It typically enters a space in the form of side illumination with benefits of an energy-efficient, harvesting solution; so, would we ever consider installing the lighting fixtures where the windows are? Join us as we shed some light on this subject!

**4c English Design Trends 101 - Innovative Design and Construction from the United Kingdom**  
Kristin Goodchild, Director, Client Services, Skanska  
Jason Kopp, Senior Vice President, Skanska

Today's economic climate continues to drive creative strategies in terms of 'green' design and construction methodologies for school buildings, with the end focus on savings to operational costs. This session will focus on a broader review of innovative design and construction strategies beyond the United States and specifically on trends utilized in the United Kingdom. Unique design trends that create system efficiencies, e.g. eliminating the need for central air conditioning in K-12 schools through the use of flexible exterior building skin, and air movement will be discussed.

**4e Retro-Commissioning and Innovative HVAC Systems**  
Robert N. Roop, CPD, LEED AP, K-12 Group Leader, Principal, Peter Basso Associates, Inc.  
Wayne Kerbelis, Principal, Peter Basso Associates, Inc.

Retro-commissioning (RCx) is a systematic process for investigating, analyzing and optimizing the performance of an existing building's systems to confirm system performance over time. This is achieved by: reviewing as-built documents to identify how the systems are meant to work together; comparing expectations with the actual system operation; and making recommendations, where necessary to meet the Owner's needs, improve system operation and improve efficiency. This session will provide an overview of the RCx process and explain several of the innovative approaches that can be implemented to save valuable energy dollars.

2:30 to 2:40 p.m. **Break**

**Session #5 – Breakout Presentations. Your Choice!**  
2:40 to 3:40 p.m.

**5a Improving Academics through Sound Acoustical Design**  
Kenric Van Wyk, PE, AIA PA, LEED AP,  
President, Acoustics by Design, Inc.

Multi-use school facilities (such as a "cafetorium" - a cafeteria that doubles as an auditorium) are popping up all over Michigan because they save space and save money. Many school districts, however, are finding that these spaces are rarely well-suited to serve both purposes effectively. So, how can multi-use facilities be optimized for both utility and performance? Kenric addresses the acoustical difficulties and audio-visual challenges that must be solved to meet the various needs of these spaces.

**5c Improving K-12 Facilities Through Research and Design Trends in Higher Education**  
Tod Stevens, AIA, LEED AP BD+C, Principal Designer, SHW Group  
Lee Andrea, AIA, LEED AP, Principal, SHW Group

Higher education facility design is a 'window' into the future of K-12 facilities design. With technology, sustainability, collaborative learning environments and 24/7 access to information, K-12 facilities design should take a cue from higher education. Examples will be presented from the new CMU and WMU Colleges of Education, and the GVSU Mary Idema Pew 'Library of the Future' that will translate well into '21<sup>st</sup> century' K-12 facilities.

**5e Funding and Bond Update**  
Mary Martin, CPA, CIA, Assistant Director, School Bond Qualification and Loan Program Michigan Department of Treasury, Bureau of Bond Finance

The majority of Michigan school districts participate in the "qualification" process when planning elections to approve bonds for capital improvement projects. Department of Treasury representatives will cover many important aspects of the School Bond Qualification and Loan Program. Advantages and disadvantages of participation, timing, recent election trends, statistics, and other issues related to the bonding process will be discussed. This is your opportunity to learn what you can do to make the qualification process run smoothly for you and your clients.

3:40 to 3:50 p.m. **Break**

**Session #6 – Breakout Presentations. Your Choice!**  
3:50 to 4:50 p.m.

**6a Saving Energy with Masonry**  
Dan Zechmeister, PE, Executive Director, Masonry Institute of Michigan

This new presentation will discuss energy sources and consumption, and take a look at the effects that various glazing ratios have on the overall composite R-factor of a masonry wall. Also discussed will be minimum energy code requirements and a preview of new code standards currently under development. A multi-wythe masonry cavity wall with three types of insulation along with calculated R-values, will be explained. The presentation will also take a peek at the new High R Masonry Wall Details, including a wall tie analysis that permits an expanded cavity to accommodate more insulation.

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**6e C.A.T. Lab - The Success is in the Details**  
Thomas Hinken, Instructor, Montague Area Public Schools  
Curt Hansen, Principal, Montague Area Public Schools  
Ralph Moxley, AIA, REFP, project manager for URS  
Mick Barney, CEFPI, CMAA, Consultant

Find out more about how this unique learning environment was planned and developed from the ground up. Learn what is different between the Middle School, High School, and Elementary School C.A.T. Labs. Learn about the software and hardware that supports the teaching of programs. See why students enjoy learning in this space. Have a dialogue with the planners and users of the C.A.T. Lab.

4:50 to 5:00 p.m. **Conference Notes and Instructions**  
5:00 to 6:30 p.m. **Social Mixing and Networking!**

**Dinner (on your own)**

# Tuesday, October 11, 2011

7:00 to 8:00 a.m. **Breakfast**  
7:30 a.m. to 12:00 p.m. **Registration**  
8:00 to 8:10 a.m. **Welcome Back** (Mark Reile, AIA)

**Session #7 – Presentation**  
8:10 to 9:10 a.m.

**Detroit Public Schools - Bond Program Update and New Initiatives**  
Mark Schrupp, Acting Chief Operating Officer  
Physical Plant Operations and Construction, Detroit Public Schools

Many changes are taking place at Michigan's largest public school district, including the completion of a \$500 million bond program and the implementation of the "Renaissance 2012" initiative. Mark will update us on the status of the school construction projects included in the 2009 bond program, which are to be completed by the fall of 2012. He will share his experience completing this ambitious project within an extremely tight time frame. Detroit Public Schools is also in the midst of implementing its "Renaissance 2012" plan to address the financial and enrollment challenges facing the district. Mark will provide insight into the district's plan to meet these challenges through the closure, consolidation and conversion of school buildings to charter schools.

9:10 to 9:20 a.m. **Break**

**Session #8 - Presentation**  
9:20 to 10:20 a.m.

**Recent Changes in Michigan Demographics**  
David J. Zuhike, Ph.D., Governmental & Legislative Liaison,  
Middle Cities Education Association

What a roller coaster ride Michigan's population has had in the last ten years! The results are in from the 2010 census and Michigan was the only state to lose population and most schools continue to lose students. How will Michigan's population demographics impact our school facilities, student learning and teaching approaches now and into our future? This session will look at the current numbers and explore trends for the next decade.

10:20 to 10:30 a.m. **Break**

**Session #9 – Presentation**  
10:30 a.m. to 12:00 p.m.

**What's Next? Lessons from the Conference**  
David Jakes, Jakesonline.org

Join David as he blends together the messages, the meaning, and the ideas shared at the conference.

12:00 to 12:15 p.m. **Wrap-up, Door Prizes and Acknowledgements**

**Save these dates:**  
**2012 Educational Facilities Conference**  
**Sunday, June 24 to Tuesday, June 26**  
**Lansing, Michigan**

# General Information

The Educational Facilities Conference is held to provide educators, school board members, educational planners, school administrators, architects, engineers, construction managers, and other interested professionals with the latest available information which will assist them in planning, designing and constructing educational facilities.

All arrangements for lodging shall be made by the individuals attending. Application should be made at the earliest possible date, as the enrollment will be limited. Use the attached form to reserve your room.

Monday includes breakfast, lunch and reception. Tuesday includes breakfast.

**A Golf Scramble is planned for Sunday, October 9 about noon at the Cedar River Course : \$75/player. Please see the Registration column for golf entry contact information.**

Casual resort wear is appropriate for all portions of the Conference.

This seminar has been approved for 9.5 hours of AIA Learning Units, including a minimum of 4.0 Health, Safety & Welfare and 3.0 Sustainable Design credit, to satisfy requirements for continuing education to maintain AIA Membership and licensure in a majority of states. State Board of Education C.E.U.s: 0.5 to 0.9 MASB offers up to 15 education credits for attendees typically. Note: All education credits subject to change. Cost for educators' credits not covered by the Conference.



## 2011 Conference Committee:

Gabe Alvey, AIA LEED AP  
Lee Andrea, AIA, LEED AP  
Mick Barney, CEFPi, CMAA  
Neale Bauman, AIA, CCS, LEED AP  
John Castellana, FAIA

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Mary G. Martin, CPA, CIA  
Ralph W. Moxley, AIA, REFP, LEED AP  
Mark Reile, AIA  
Robert N. Roop, CPD, LEED AP  
Barb Sido  
Kenric Van Wyk, P.E., AIA PA, LEED AP

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Saginaw, MI

*Why Unicorns? Unicorn, definition: a fabulous beast that is conceived out of optimism, not out of human fears. The unicorn is fierce yet good, selfless yet solitary in purpose, and always mysteriously beautiful. For this year's conference, we've opted to veer away from the tendency we all have to focus on the economy. Together, in the spirit of the unicorn, let's be a source for optimism and focus on value for construction, professionals and educators alike.*



The sponsoring organizations and the EFC Committee wish to acknowledge these special contributions:

**Innovative Communications, Inc.** of Grand Rapids and Saginaw, for providing the PowerPoint system, projectors, and sound reinforcement system.

Committee meeting space provided by **Thrun Law Firm**

**URS Corporation** for providing the "Save the Date" cards

printed on recycled paper



# Registration

Register On-Line at [educationalfacilitiesconference.com](http://educationalfacilitiesconference.com) or by fax, mail or email.

Please print (Use a separate form for each attendee)

Individual's name .....

Nickname .....

Member of [organization] .....

AIA Member Number .....

Name of Firm / School District .....

Job Position Title .....

Address .....

City & State, Zip .....

Telephone ..... Fax .....

E-mail address .....

(Required for Confirmation)

Dietary Restriction: Vegetarian  Vegan

Breakout Presentations I'm likely to attend:

4a  4c  4e   
5a  5c  5e   
6a  6c  6e

I will attend the Golf Scramble on Sunday, October 9  
Golf entry contacts: [aiami@aiami.com](mailto:aiami@aiami.com) or [rroop@pbanet.com](mailto:rroop@pbanet.com)

The early registration fee for each person attending the conference is only \$140 for school district members of MASA, MASB and MSBO, \$325 for members of AIAMI, CEFPi and the conference committee, and \$375 for all others. Registration after September 1, 2011 is \$190 for members of MASA, MASB and MSBO, \$425 for members of AIAMI, CEFPi and the conference committee, and \$475 for all others. Golf Scramble is \$75 per person. Make check payable to AIA Michigan and send to:

**AIA Michigan, 553 E. Jefferson Avenue • Detroit, Michigan 48226**  
**[313] 965-4100 Fax [313] 965-1501 Email [aiami@aiami.com](mailto:aiami@aiami.com)**

Enclosed is check # ..... In the amount of \$ .....

Mastercard and Visa payments are welcomed by filling in the following:

Print Name: .....

(as it appears on card)

Card type  Mastercard  Visa

Card number .....

Expiration Date .....

Cardholder's Signature .....

NO REFUNDS after September 1, 2011. Cancellation Policy: Cancellation must be received in writing prior to 9/1/11. A \$25.00 cancellation fee will be charged. Direct registration questions by emailing [aiami@aiami.com](mailto:aiami@aiami.com) or by calling 313-965-4100. Confirmations will be emailed or faxed to attendee's information provided. Allow 5 business days for processing.



**AIA Michigan A Society of the American Institute of Architects**

Michigan School Business Officials (MSBO)  
Michigan Association of School Administrators (MASA)  
Michigan Association of School Boards (MASB)  
Michigan Department of Treasury  
Council of Educational Facility Planners, International (CEFPI)  
present the...

# Nineteenth Annual Educational Facilities Conference

*“Education, Facilities, Innovation and Unicorns”*

October 10-11, 2011

Shanty Creek Resort  
Bellaire, Michigan

[educationalfacilitiesconference.com](http://educationalfacilitiesconference.com)  
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