



DISRUPTIVE CHANGES IN
HIGHER EDUCATION
FACILITIES

2019 SUMMER MIAPPA CONFERENCE

JUNE 26-28
BOYNE HIGHLANDS RESORT

HOSTED BY:  HILLSDALE COLLEGE



THANK YOU TO OUR SPONSORS!

PLATINUM



GOLD



SILVER



BRONZE



AGENDA

WEDNESDAY JUNE 26

10:30 AM | Heather Pro Shop

Bloody Mary Bar - Outside
Sponsored by The Collaborative

11 AM | Heather Pro Shop

Golf Outing Check-In

12:30 PM | Heather Course

Golf Outing - Shotgun Start

4 PM - 9 PM | Main Lodge Lobby

Conference Check-In

5 PM | Main Lodge Lobby

Hotel Check-In

6 PM - 10 PM | Tailgate Room & Fireplace Lobby

Margaritaville Themed Icebreaker
Food, beverages, and entertainment.
Wear flip flops and Hawaiian attire!

7 PM - 8:30 PM

Performance by:
Petoskey Steel Drum Band
Sponsored by Walbridge

THURSDAY JUNE 27

6 AM | Day Lodge Hallway

Conference Check-In

7 AM - 7:45 AM | Zoo Bar & Blue Room

Breakfast

7:45 AM - 8 AM | Blue Room

Welcome Opener

8 AM - 9:15 AM | Blue Room

Keynote: Transformational Change
Lander Medlin, APPA

9:15 AM - 9:30 AM

Break

9:30 AM - 11 AM | Camelot & Tailgate

Workshop

11 AM - 12:15 PM | Blue & Green

Networking

12:15 PM - 1:30 PM | Zoo Bar & Blue Room

Lunch and discussion

12:45 PM

University exchange

1:30 PM - 2:30 PM | Camelot & Tailgate

Breakout Sessions

Track 1: Breaking Down Walls for the Next Generation

Track 2: Customer Service Never Sleeps: Overcoming the Loss of Campus Dispatch

2:30 PM - 2:45 PM

Break

2:45 PM - 3:45 PM | Champion & Tailgate

Breakout Sessions

Track 1: Utilizing a Detailed Energy Analysis and An Energy Model to Guide Improvement Project

Track 2: Chemical Control Complexities of Distributed Cooling Systems in an Urban Environment

3:45 PM - 4 PM

Break

4 PM - 6:30 PM | Top of the Hill

Top of the Hill Social
Take chairlift located near Zoo Bar

6:30 PM - 7:30 PM | Zoo Bar

Social

7:30 PM - 10 PM | Camelot

Young Americans Dinner Theatre

FRIDAY JUNE 28

8 AM - 9 AM | Camelot

Breakfast

9 AM - 10 AM | Camelot & Tailgate

Breakout sessions

Track 1: Integrating Campus and Building Security with Wellness and Biophilic Design

Track 2: Visualize the Air You Breathe

10 AM - 10:15 AM

Break

10:15 AM - 11:15 AM | Camelot & Tailgate

Breakout sessions

Track 1: HVAC Design and Advanced CFD Modeling to Improve Natatorium Air Quality

Track 2: IP Controllers & The Changing Building Automation Landscape

KEYNOTE SPEAKER

TRANSFORMATIONAL CHANGE LANDER MEDLIN, APPA

Thursday, June 27

8 AM - 9:15 AM | Blue Room

Lander Medlin serves as the Executive Vice President for APPA where she acts as the chief staff officer of the association, contact for the Facilities Management Evaluation Program (FMEP), and serves as staff liaison to the Board of Directors and the Executive Committee. In her presentation, Lander will discuss how higher education and the facilities management profession are finding themselves increasingly immersed in a sea of transformational change. In an era that has been termed the "Age of Accelerations," impactful forces are affecting institutions and correspondingly are changing the facilities profession in dramatic ways as it relates to finances, technology, demographics and communications. Lander will share a view of the not-so-distant future and discuss with attendees how to best position themselves to embrace the changes that are bearing down on us. This presentation is intended to stimulate thinking and promote a discussion about higher education and our professional need to prepare for a rapidly changing environment.

WORKSHOP - CHANGE IS INEVITABLE. GROWTH IS IMPERATIVE.

Facilitated by Amy Baumer, Sarah Ely, Kaleena Kowalkowski, Rence Meredith, and Jeff Marcinkowski

Thursday, June 27

9:30 AM - 11 AM

**Capital Projects | Camelot
Operations | Tailgate**

Continuing the conversation that began in the keynote, the workshop will engage attendees with tools and ideas to take back for implementation. Facilitators will guide participants through selected exercises to help bring some calm midst the chaos.

BREAKOUT SESSIONS



CAPITAL PROJECTS - TRACK 1

BREAKING DOWN WALLS FOR THE NEXT GENERATION

June 27, 1:30 PM | Camelot

Presenters: Mark Wisz (dbHMS), John Bergman (dbHMS), and DeVon Miller (Western Michigan University)

Preventing disruption to operations and the expense of remediation during an academic building's life points to Building Enclosure Commissioning as an essential path for new and renovation projects to prevent leaks and energy loss. Colleges and Universities own and operate buildings for the long haul, much longer than most owners. As a result, MEP Commissioning is now the norm because of the value of the associated energy and maintenance savings. Building and energy codes mandate commissioning regardless of third-party certification. Yet many projects do not regularly engage Building Envelope Commissioning, which may account for more than 30% of the building's energy consumption. Understanding Building Enclosure Commissioning, requirements, lessons learned, and implementation paths are essential for high performing buildings. We will breakdown suggested tasks, time frames, and how to establish solidarity among the project team. We will cover when and how to implement building enclosure commissioning, including onsite testing.

INTEGRATING CAMPUS AND BUILDING SECURITY WITH WELLNESS AND BIOPHILIC DESIGN

June 28, 9 AM | Camelot

Presenters: Steve Jelinek (Stantec), Patrick Calhoun (Stantec), JaneAnn Benson (Grand Rapids Community College)

Creating secure buildings and campuses can challenge good relationships, whether town-gown or occupant-nature. Great ideas for integrating security and wellness for your facilities may come from unexpected sources. CPTED and biophilic design principles may often seem at odds. Engaging users early in planning and design is vital in creating environments that effectively embrace both security and well-being. Building security on higher-education campuses is important today and will only become more important as we move forward into the future. Also important as we look to the future, sustainably-designed buildings are becoming the standard in meeting student and faculty expectations, as well as increasing productivity and benefiting the environment. Finding opportunities to successfully blend security and biophilia can result in outcomes that create high-functioning and welcoming learning environments. Illustrating the latest security, wellness and biophilic design integration strategies, this presentation will provide participants with the essential tools for evaluating both prospective designs and existing conditions on their campuses.

UTILIZING A DETAILED ENERGY ANALYSIS AND AN ENERGY MODEL TO GUIDE IMPROVEMENT PROJECT

June 27, 2:45 PM | Champion (Heather Highlands)

Presenters: Rut Wattanasak (Catalyst Partners), Sara VanderVeen (Lake Michigan College), Sara Bergakker (Progressive AE)

The Mendel Center Energy Upgrades and Grand Upton Hall Modernization at Lake Michigan College.

Due to aging facility, plant equipment, and space comfort issues, the college wants to revitalize and modernize the space and improve the energy performance of the building under one project budget. Instead of the typical route of one-to-one replacement, LMC had engaged Catalyst Partners and Progressive AE to provide detailed energy analysis and innovative design solutions to address the plant replacement and energy upgrade project. The resulting analysis proposed an innovative ice-storage chiller plant, multi-stage boiler plant, that is projected to save 35% in electricity and 38% in natural gas consumption.

HVAC DESIGN AND ADVANCED CFD MODELING TO IMPROVE NATATORIUM AIR QUALITY

June 28, 10:15 AM | Camelot

Presenters: Jason Slusarczyk (Novus Environmental), Joe Seidl (Peter Basso Associates), and Sue Hopper (Michigan State University)

An emerging air quality concern in University Natatoriums is Trichloramine formation and off-gassing from indoor pools, and the significant adverse health effects of swimmers, coaches, staff, as well as the negative impact on building envelope and equipment longevity. The presenting team will use recent HVAC renovation and upgrade projects at Michigan State University and Purdue University as case studies. Natatorium HVAC design concerns, including ventilation, space pressurization and humidity control, and removal of Trichloramine gas through effective ventilation design, will be reviewed. Specific examples will be provided in the context of the subject project as well as for general natatorium applications. The application of advanced computational fluid dynamics (CFD) modeling for evaluating and improving HVAC design in Natatoriums will be presented. Simulation results will be shared highlighting conditions under existing system operation and for various design configurations considered and analyzed throughout design.

BREAKOUT SESSIONS



OPERATIONS - TRACK 2

CUSTOMER SERVICE NEVER SLEEPS: OVERCOMING THE LOSS OF CAMPUS DISPATCH

June 27, 1:30 PM | Tailgate

Presenters: Rebecca Bruystens (Western Michigan University), Scott Gignac (Answer United), and Jennifer Stuerbaut (Answer United)

In 2018 Western Michigan University was faced with the challenge of losing the police dispatch center on their campus. Hear first-hand from Western Michigan University and business partner Answer United on how losing the only 24/7 call center at WMU impacted the campus. They will share the planning and implementation process that took place and explain how this disruptive change has allowed them to make improvements to their procedures and lead to new best practices.

VISUALIZE THE AIR YOU BREATHE

June 28, 9 AM | Tailgate

Presenters: Erick Dustin (Airthings)

People spend 90% of their time indoors, it is important to know what is in the air that we breath. Research shows that elevated levels of CO2 can lead to a 30% reduction in cognitive performance while Radon is a leading cause of lung cancer with approximately 21,000 deaths per year in the U.S. Monitoring air quality, including CO2, temperature, humidity, VOCs, and Radon can help to optimize occupant health, performance and building efficiency.

CHEMICAL CONTROL COMPLEXITIES OF DISTRIBUTED COOLING SYSTEMS IN AN URBAN ENVIRONMENT

June 27, 2:45 PM | Tailgate

Presenters: Steven Pecic (Wayne State University) and Peter Miller (Eldon Water Inc.)

Distributed cooling tower systems in urban environments generate a unique level of complexity in Midwest cities and towns where many geographically neighboring systems or transitional season demand fluctuates chemical treatments effectiveness. This educational track will provide a brief on identified health hazards within systems and the experience of how coordination with public health and government departments, and internal multidisciplinary units led to improved controls, and how we developed internal standards not clearly defined in any regulatory manual. The key takeaway information will be dialogue on the recording and documentation of data, procedures, and actions for various scenarios that may arise.

IP CONTROLLERS & THE CHANGING BUILDING AUTOMATION LANDSCAPE

June 28, 10:15 AM | Tailgate

Presenters: Steve Hoffman (Honeywell)

IoT, Data Harvesting, and Analytics can reduce operational costs. BAS IP Controllers are enabling lower cost implementation of these features and tools. Learn about the changes happening in the Building Automation Industry and benefits to large facilities.

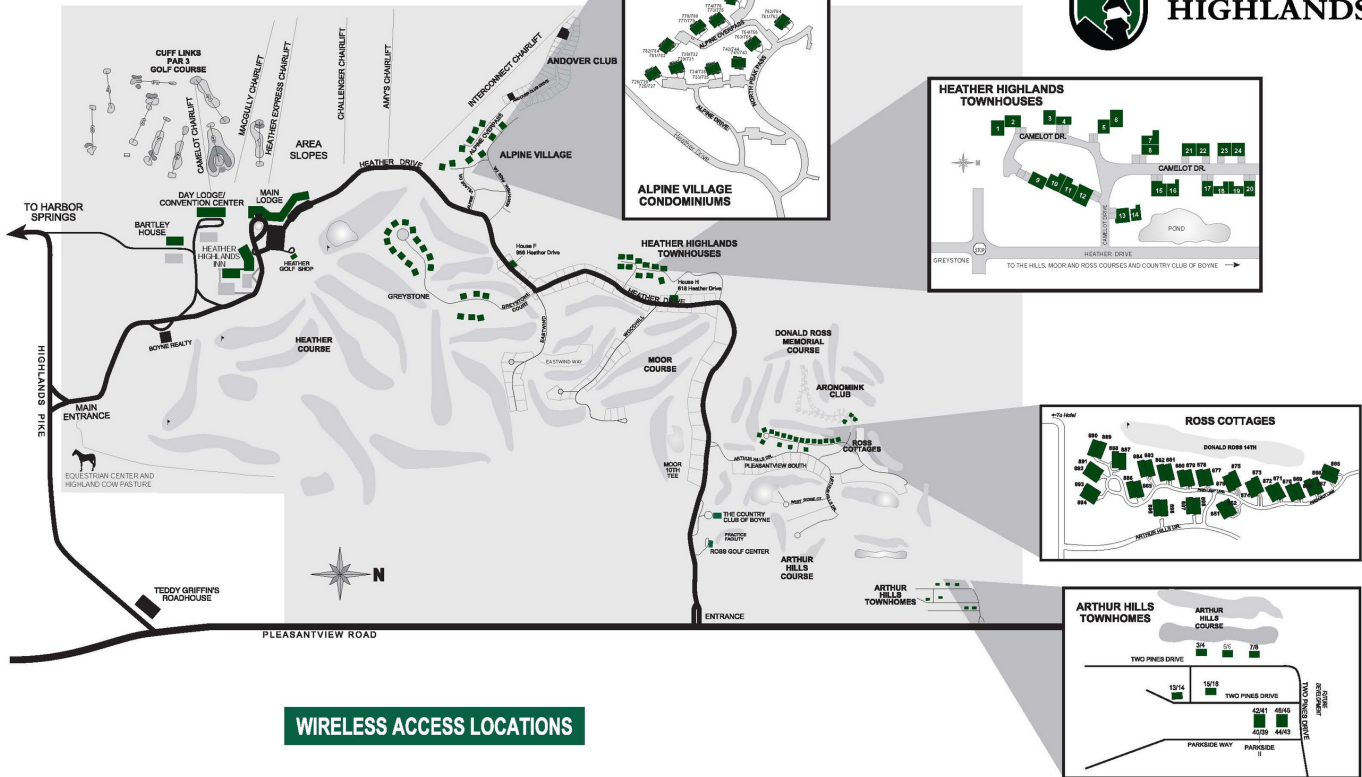
RESORT MAP COMPLEX



BOYNE HIGHLANDS Harbor Springs, Michigan



**BOYNE
HIGHLANDS**



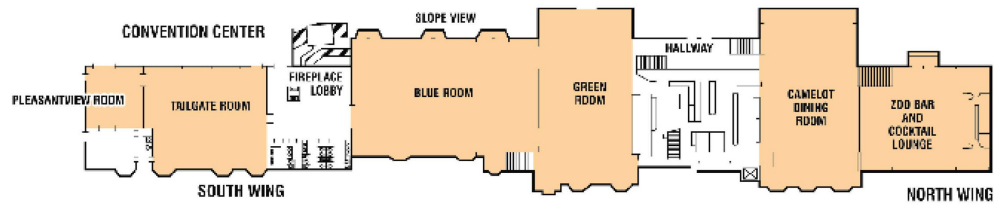
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RESORT MAP



HEATHER HIGHLANDS INN

