

Monday, October 30, 2017

10:30 am-11:30 am

**Track 1 - Making Facility Condition Assessments Matter**

*Presenters:* Jason Sawyer, Christina Gardner and John Talkington, Smithsonian Institution  
(Approved AIA 1LU )

Three facility professionals from different facets of the Smithsonian Institution organization will detail their facility condition assessment process. This includes: how field and desk audit assessments are conducted, what the information means to us and our stakeholders, and how the information is useful in developing requirements and projects.

The session will focus two main benefits of the process. First, how it acts as a tool easily assess risks to produce prioritized project needs. Second, how it creates a smooth transition with a defined, continuous and traceable path.

**Track 2 - The Immersive Classroom: Prodigy of Innovation in Higher Education**

*Presenters:* Dr. Paul Hammond, Rutgers University - New Brunswick, Sennah Loftus, Voith & Mactavish Architects, Rick Muermann and Matt Wilk  
(Approved AIA 1LU) (PE Credits Pending)

With time comes age; every higher education campus faces the challenge of how to address aging infrastructure, and in particular classrooms that are worn, outdated and no longer support current teaching pedagogies. This session will explore the agitators, needs, challenges, planning for, and benefits of converting these outdated classrooms into Full Immersion Classrooms. Whether the distance between the classrooms is less than a mile (a building or two away), 200 miles (for a campus in a nearby city), or 7,000 miles (for a west coast campus), each attendee has the experience of being in the same room as the professor and classmates. This session will provide invaluable insights into these topics, as well as, attendees are invited to participate in the discussion by sharing their experiences and goals with under-served classrooms on their campuses.

**Track 3 - Drinking Water Mitigation at an Urban University**

*Presenters:* Andrew Christ, NJIT and Mitchell Gayer, NJIT  
(Approved AIA 1LU/HSW) (PE Credits Pending)

In an effort to ensure safe drinking water for the university community, the New Jersey Institute of Technology (NJIT) initiated a campus-wide drinking water sampling and mitigation program. This program has been a collaborative effort between the Facilities Services Department and the Environmental Health and Safety Department. In response to analytical results obtained from the certified laboratory, NJIT initiated a drinking water mitigation plan that focused on timely and transparent communication with the university community; posting of signs when required; and additional sampling and analysis. The session will describe fully all mitigation activities required, based on the interpretation of sampling data.

**Track 4 - Algonquin College Campus Transformation Journey**

*Presenter:* Todd Schonewille, Algonquin College and Clark Wiedetz, Siemens  
(Approved AIA 1LU )

Five years ago, Algonquin College had aspirations about transforming their campus while struggling with deferred maintenance and unfunded sustainability goals. This session will explore the college's Campus Transformation journey involving Siemens partnership, technology innovation (including a diverse microgrid), environmental stewardship and sustainability education.

#### **Track 5 - Planning and Design Considerations for Effective Business Incubators**

*Presenters:* Daniel Mori, Binghamton University, Susanne Angarano and Jason Evans, Ashley McGraw Architects  
(Approved AIA 1LU )

Business incubators are increasingly seen as an effective way to build upon the research and entrepreneurship at our colleges and universities. These facilities provide vital start up space for those looking to build businesses based on ideas developed within the university setting. The design of an incubator space must take into account a complex number of factors impacting the long-term success of the facility. This session will review key components in the planning and design of incubator space using the recently completed Southern Tier High Technology Incubator as a case study. The Southern Tier High Technology Incubator is a new 36,000 square foot incubation associated with both Binghamton University and SUNY Broome.

1:00 pm – 2:00 pm

#### **Track 1 - Thought Leaders 2017**

*Presenter:* Keith Woodward, Quinnipiac University

APPA developed the Thought Leaders Series to conduct dedicated discussions on the future of higher education and the impact of that future on educational facilities. This session will explore the recent TLS 2017 and what it means to the industry and our institutions.

#### **Track 2 - Document Management: The Monumental Task of Digitizing the Facilities Plan Room**

*Presenters:* Sylvia Kendra, Smithsonian Institution and Vivica Williams, archScan  
(Approved AIA 1LU) (PE Credits Pending)

Are you drowning in paper and disorganized electronic documents? Are you frustrated because you cannot find what you need? Changing document management procedures is a monumental task and this session will teach best document management practices and how to save time, space, money, and improve safety. Learn about how the Smithsonian Institution has tackled the problem and the steps it took to become a paper-less environment.

#### **Track 3 - Innovative Solutions In Energy Conservation and Efficiency at AU**

*Presenter:* Juan Allen, American University  
(Approved AIA 1LU) (PE Credits Pending)

Challenged with exponential campus growth and achieving carbon neutrality by 2020, American University implemented innovative systems approaches that saved energy and reduced operation and maintenance costs for both new and existing HVAC systems.

This was achieved by working with product manufactures and in-house controls personnel to develop innovative solutions for control of new and existing heating and cooling systems that are both energy and operationally efficient.

#### **Track 4 - APPA 101**

*Presenter:* Christina Hills, APPA

Do you want to be perceived and recognized as a professional in the field of educational facilities management? APPA is the gathering place for those of us engaged in the field of educational facilities management and dedicated to the ongoing evolution of its professionals into influential leaders in education. This session will introduce you to APPA's outstanding programs and offerings. It will also discuss APPA's highly sought after credentialing program that includes the Educational Facilities Professional (EFP) and Certified Educational Facilities Professional (CEFP).

#### **Track 5 - Research Based Flooring Life Cycle Costing Analysis**

*Presenters:* Kevin Mann, Salisbury University and Jonathan Stanley, Tarkett  
(Approved AIA 1LU) **(PE Credits Pending)**

The journey of this session starts and ends with the student at the center. Our approach for a flooring surface in the higher education environment needs to meet the expectations of students, but also the expectations of the facilities department. This session will explore the journey that Salisbury University has taken to create a highly effective student experience while reducing water usage and cost in flooring.

3:00 pm- 4:00 pm

#### **Track 1 - Increasing Campus Revenue Streams through Creative Asset Renewal Planning**

*Presenters:* Robert J. Shipley, Adelphi University and Katherine Kluefer, Ecosystem  
(Approved AIA 1LU)

Educational facilities across North America are aiming to reduce both energy spend and GHG emissions, with targets ranging from 10%-50% by 2030, 2025, or even 2020. At the same time, financial constraints appear to limit possibilities. This session will evaluate planning, implementation, and financing of an innovative, deep energy retrofit with a successful financial structure that helped one university achieve its immediate goals and invest in its future.

#### **Track 2 - Mobile Work Management Implementation Challenges**

*Presenters:* Jeremy Smith and Denise McConnell, Carnegie Mellon University

Taking lessons from previous failed attempts to establish a mobile solution for work management, Carnegie Mellon University has successfully operated mobile work management for the past two years. This session will give useful insight into challenges faced and decisions that had to be addressed to make it work.

#### **Track 3 - Engaging the Standards and Codes Council**

*Presenter:* John Bernhards, APPA

This session will introduce attendees to the APPA Standards and Codes Council. Attendees will learn more about standards and codes awareness and education; the impact of existing and proposed standards and codes on educational institutions; and how to influence standards and code development process and outcomes.

#### **Track 4 - Reaching Out to Build Up!**

*Presenter:* Judie Cooper, Smithsonian Institution

Facilities organizations are at the heart of any enterprise and the more stakeholders understand the critical work performed by the FM team, the more likely we are to be viewed as a partner. Many organizations take the FM team for granted. However, stakeholders may not understand the complexities of the FM responsibilities and we may contribute to their lack of understanding. We need to reach stakeholders in multiple ways that clearly demonstrate the value and importance of the FM team. This session will highlight a number of Smithsonian FM outreach activities, events and strategies that have helped us present our story.

#### **Track 5 - Custodial Key Performance Indicators**

*Presenter:* Erik Cagle, Penn State University

This session will focus on how a Higher Education Custodial Operation can use measurable KPIs to motivate and retain supervisors. Innovative tools such as an easy-to-use dashboard help supervisors promote best practices and evaluate their own performance by measuring 5 Key Performance Indicators. This session will also address challenges such as buy-in and job satisfaction, as well as the use of technology to enhance performance.

**Tuesday, October 31, 2017**

**10:15 am-11:15 am**

#### **Track 1 - Partnership Success Story with a Facilities Condition Assessment**

*Presenters:* Robert Aldrich, Miss Hall's School, Pamela Babuca and Phil Conte, StudioJAED

(Approved AIA 1LU) *(PE Credits Pending)*

Miss Hall's School (MHS) partnered with StudioJAED in 2015 to conduct a comprehensive Facilities Condition Assessment. This session will share the process MHS and StudioJAED followed to such success. It is an FCA that is widely used and regularly referenced and it is understood by entire Board of Trustees. Learn how the FCA has been turned into "living documents."

#### **Track 2 - Fall Protection: How to Procure and Maintain Effective Solutions**

*Presenters:* Keith Keyes, Smithsonian Institution and Kevin Wilcox, LJB Inc.

(Approved AIA 1LU/HSW)

Selecting and implementing fall protection solutions are the most visible aspects of a fall protection program. They are also the most costly. Organizations can easily sacrifice time, money, safety and productivity by implementing the wrong solutions. Many organizations do not document, maintain and track their fall protection solutions

effectively to maximize their return on investment. This session will convey best practices to help get what is needed to protect workers at heights including the best solution for all stakeholders, as well as documentation and tracking options to maintain the systems.

### **Track 3 - Powering Your Future: Expanding Your Utilities to Meet The Needs of a Growing Campus**

*Presenters:* Shawn Connolly, Montclair State University and Frank DiCola, DCO Energy  
(Approved AIA 1LU) (PE Credits Pending)

Montclair State University has sustained an aggressive record of renovation and construction of its facilities to support its expanding community. In 2009 the University performed an analysis of its potential options to upgrade its aging utility infrastructure. The University chose to completely replace the CO-gen facility with a tri-gen facility and replace the entire distribution system.

In 2016 a conceptual design and energy analysis was performed to determine the feasibility and benefit of additional generation for load shedding. The plan set out to create a robust utility infrastructure that allowed the University to operate without any connection to local utility providers. The concept of creating we now call the Montclair State University Micro-Grid.

### **Track 4 - APPA Effective and Innovative Practices – Penn State’s APPA Credentialing Cohort Program**

*Presenters:* Phillip Melnick, CEFP and Allen Bonsell, Pennsylvania State University

With the implementation of the Customized Interactive Learning platform and online examination preparation by APPA, which includes a number of preparation concepts from the first iteration of the Penn State cohort approach, the **APPA Credentialing Cohort Program** now utilizes online and in-person preparation and discussion.

Introduced in August 2016 and facilitated by credentialed professional staff at Physical Plant working in the four core APPA content areas, the new iteration of the program not only prepares employees for the APPA examinations, but also includes review and discussion of both OPP and APPA policies, procedures, and best practices.

To date, the **Penn State APPA Credentialing Cohort Program** has educated 103 employees and successfully credentialed 91. Beyond that, the program has grown and strengthened a sense of camaraderie among the employees.

### **Track 5 - Surface Refinishing: The Innovative Time and Money Saving Alternative to Capital Replacement**

*Presenters:* Charles Nieves, NJIT and Ryan Gladhill, Miracle Method of Tri-States  
(Approved AIA 1LU/HSW) (PE Credits Pending)

Selecting and implementing fall protection solutions are the most visible aspects of a fall protection program. They are also the most costly. Organizations can easily sacrifice time, money, safety and productivity by implementing the wrong solutions. And, many organizations don't document, maintain and track their fall protection solutions effectively to maximize their return on investment. This session will convey best practices to help get what is needed to protect workers at heights including the best solution for all stakeholders, as well as documentation and tracking options to maintain the systems.

### **Track 1 - Emerging Professionals & Succession Planning**

*Presenters:* Jessica Abbott and Norm Young, University of Hartford

This session allows emerging professionals in the facilities environment to network and share their facilities experiences and needs.

### **Track 2 - Small Steps - The Journey from Reactive to Proactive Maintenance**

*Presenters:* Andrea Crabb, University of MD College Park and John Edwards, Facility Engineering Associates  
(Approved AIA 1LU)

In an effort to transition from a reactive to a proactive maintenance organization, small methodic steps can be the best approach. University of Maryland is using five representative buildings (off-campus laboratory, performing arts center, older academic, research, and new research and tech academic) to test and pilot new processes and technologies to implement a scheduled maintenance capability. The intent is to grow PM super user advocates and provide a proof of concept to senior leaders. The program is divided into elements for asset management, work management, training and implementation, reporting and analysis, and quality assurance. The pilot program is showing success with employee buy-in, resource usage and cultural change management.

### **Track 3 - To Stock or Not to Stock?**

*Presenter:* Spring Buck, Cornell University  
(PE Credits Pending)

Having transitioning from a construction focused organization to a repair and maintenance focused organization, staff from Cornell University's Facilities Management Department share their journey of adapting material procurement from a warehouse based program to a flexible just-in-time program.

### **Track 4 - Museum Flood Resilience Initiatives on the National Mall**

*Presenters:* Nancy Bechtol, Smithsonian Institution, David Samec, National Gallery of Art and Mark Sprouse, Siemens  
(Approved AIA 1LU) (PE Credits Pending)

Along the National Mall, catastrophic flooding threatens museum collections, buildings, grounds, operations, research, and personnel. Climate change is projected to exacerbate these risks. This session will explore the various approaches these Agencies are taking to evaluate vulnerability and to protect their assets from flooding.

### **Track 5 - Flooring Industry's Most Comprehensive Research Project**

*Presenters:* Dr. Jeffrey Campbell, Brigham Young University and Jonathan Stanley, Tarkett  
(Approved AIA 1LU) (PE Credits Pending)

The built environment has created multiple opportunities to research areas to measure user performance and success. Today, the flooring industry now has the most comprehensive and robust executive summary introduced in 2017. Dr. Jeffery Campbell has taken over a year to compile several decades of research to prepare these valuable findings. The value that this brings to Higher Education is the ability to navigate the best selection for different learning and living environments.

2:30 pm – 3:30 pm

### **Track 3 - Developing the Capital Plan is Only Half the Battle**

*Presenters:* H. Ford Stryker, Penn State University and Kevan Will, Sightlines, a Gordian company  
(Approved AIA 1LU) (PE Credits Pending)

Aging buildings and infrastructure, growing backlogs of deferred maintenance and limited capital and operational funds, these are trends that have affected colleges and universities across the country since the recession of 2008. This session will give attendees practical solutions to implement as they develop and articulate their capital plans. First, drawing from a database of over 450 colleges and universities, Sightlines will detail national trends in capital investment and highlight some key challenges in the planning process. Then an institution that has had success in this area, the Pennsylvania State University, will give practical tips for developing sound capital plan and winning approval.

### **Track 4 - Lessons Learned Managing Large - Scale Construction and Demolition Projects**

*Presenters:* Craig Kilburn, Wheaton College and Kevin Poulin, Triumvirate Environmental  
(Approved AIA 1LU) (PE Credits Pending)

Wheaton College had two major projects on its calendar for 2016: an installation of two solar fields and the demolition of its wastewater treatment plant (WWTP). Wheaton leased two large parcels of land to an energy company to develop two solar energy fields. A contingency that came with this project was the required cleanup of debris, tires, old vehicles, drums and asbestos-containing materials. The aging infrastructure associated with the WWTP was in need of major upgrades and the costs to repair and continue to operate had exceeded the costs to connect to the local sewer system. Hear from the school EHS Director as he explains how they overcame demolition surprises and other obstacles to get the projects completed.

### **Track 5 - Developing an Energy Strategy for Sustainability & Resiliency to Meet Future Campus Infrastructure Needs**

*Presenters:* Ralph Thayer, Swarthmore College and Lawrence Eighmy, The Stone House Group  
(Approved AIA 1LU)

In June 2016, Swarthmore College partnered with The Stone House Group (SHG) to achieve four key institutional goals. To achieve Swarthmore's goals, Swarthmore and SHG began conducting several overlapping studies that analyzed current campus infrastructure, current campus deferred/cycle/modernization maintenance needs and energy projects that would assist SHG in making recommendations for upgrades to meet future needs of the College in a sustainable manner.

2:30 pm - 4:35 pm

### **Track 1 - University Storytelling: The Key to Being an Influencer!**

*2 Hour Presentation*

*Presenters:* Norm Young, University of Hartford, William Johnson, PC Construction and Yanel de Angel, Perkins+Will

Storytelling is intuitive to many but how could you become great at it to make compelling arguments, resonate and be a memorable influencer? This highly interactive double session builds on ERAPPA 2016's and will utilize a

workshop atmosphere to jointly develop your storytelling skills to elevate the impact of your delivery and success. In this collaborative session, attendees will create and rehearse tangible ideas that can be implemented immediately.

**Track 2 - Capital Idea Harvests Monumental Rewards: A Transformation Journey with American University Arboretum and Gardens** *2 Hour Presentation*

*Presenters:* Mike Mastrota, American University, Mark Feist and Stephanie Destefano, American University  
(Approved AIA 2LU)

What began in 1996 as a much needed beautification program has led to the entire 84 acre campus of American University being an accredited and award winning arboretum and gardens. An incredible transformation has taken place which provides a strong example of implementing a vision through smart planning and use of resources. The campus is a model of how to manage an urban landscape in a very sustainable way. The arboretum is encouraging interactions between faculty and staff and is increasingly being used by faculty as a resource for experiential learning across all disciplines. This session tour will leave attendees inspired and thinking of ways they can use the information presented on their own campuses.

3:35 pm - 4:35 pm

**Track 4 - From Concept to Completion: Repurposing a Warehouse into a 345,000 square foot Campus**

*Presenters:* Mary Grace Simcox, Pennsylvania College of Health Sciences, Deborah Knast and Jill Sirota, Stantec  
(Approved AIA 1LU)

This session will follow PCHS, an Allied Health Sciences College, through its transformative campus relocation to an existing corporate office building and adjoining manufacturing warehouse facility. A fast-track schedule was developed that included a strategic campus master plan, interior fit out documentation, furniture specification, extensive site work and construction. Key challenges of an alternative project delivery and how it affected the design process will also be discussed.

**Track 5 - Why You Need To Fake It Before You Make It**

*Presenter:* Lisa Belokur, Cornell University

What do the world's most successful individuals possess that allows them to be so influential? The secret involves a strong unbending belief in themselves that makes room for learning through failure and knowing that authenticity or being your "authentic self" is not always the answer. This session will help you learn through examples of others and show valuable tips that can be incorporated into your career path today.