June 23-25, 2015
Atlanta, GA
Georgia International Conventional Center

Conference Program

Sponsored by:

Hartsfield-Jackson
Atlanta International Airport

ACI
Airports Council International

EDI
www.edatai.com

IFMA
Airport Facilities Council
Save the Date

greeningATL

EXCELLENCE AWARDS
2016 Recognizing Excellence In Sustainable Business Practices

Atlanta Airport Marriott Gateway
2020 Convention Center Concourse
Atlanta, GA 30337

Celebrate with us as we honor the airport community’s leaders in sustainable practices!

April 2016
# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greetings from the Airport General Manager</td>
<td>4</td>
</tr>
<tr>
<td>Conference Schedule</td>
<td>5</td>
</tr>
<tr>
<td>Keynote Speaker Profiles</td>
<td>7</td>
</tr>
<tr>
<td>Workshops</td>
<td>10</td>
</tr>
<tr>
<td>Workshop Speaker Profiles</td>
<td>21</td>
</tr>
<tr>
<td>Day-at-a-Glance</td>
<td>27</td>
</tr>
<tr>
<td>Steering Committee</td>
<td>30</td>
</tr>
<tr>
<td>Thank You</td>
<td>31</td>
</tr>
</tbody>
</table>
Greetings attendees and guests:

We are honored to partner with the International Facility Management Association (IFMA) to host the inaugural 2015 International Sustainable Asset Management Conference. This event will serve as a platform to exhibit best practices, showcase innovation and new technology and create meaningful networks within the sustainability and asset management communities.

Sustainable asset management is a proactive approach to decision making that combines economic, environmental and social considerations with the end result of long-term benefits and continuous industry growth.

Hartsfield-Jackson is laser focused on becoming the world’s greenest airport. One way we will accomplish this goal is by proactively managing our aging infrastructure based on life-cycle analysis, total cost of ownership and sustainable development.

While we are excited to share our plans with you, we are equally looking forward to hearing about similar programs and projects underway in your communities and in your operations.

I look forward to meeting many of you over the next three days, and I wish you all an informative and productive conference experience.

Sincerely,

Miguel Southwell
Aviation General Manager
# Conference Schedule

## Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>Breakfast Keynote</td>
</tr>
<tr>
<td>9:15 a.m. - 9:30 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>9:30 a.m. - 10:45 a.m.</td>
<td>Workshops</td>
</tr>
<tr>
<td></td>
<td>Green Acres ATL Energy Park: The Key to Waste Zero</td>
</tr>
<tr>
<td></td>
<td>Proactive HVAC Analytics and Condition Based Maintenance</td>
</tr>
<tr>
<td></td>
<td>Asset Management: Yesterday, Today and Tomorrow</td>
</tr>
<tr>
<td>10:45 a.m. - 11:00 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>11:00 a.m. - 12:15 p.m.</td>
<td>Workshops</td>
</tr>
<tr>
<td></td>
<td>Sustainable Communities: EcoDistrict Utilities</td>
</tr>
<tr>
<td></td>
<td>Thermal Mapping and Surveying — New Technology: More Accurate Roof Condition Assessment Saves Millions</td>
</tr>
<tr>
<td>12:15 p.m. - 12:30 p.m.</td>
<td>Break</td>
</tr>
<tr>
<td>12:30 p.m. - 1:30 p.m.</td>
<td>Luncheon Keynote</td>
</tr>
<tr>
<td>1:45 p.m. - 3:00 p.m.</td>
<td>Workshops</td>
</tr>
<tr>
<td></td>
<td>How IWMS Technologies Can Impact Energy Reduction and Sustainability Goals</td>
</tr>
<tr>
<td></td>
<td>AssetMax – Data-based Pavement Management: Relief for the Budgets, the Environment and Headaches</td>
</tr>
<tr>
<td>3:00 p.m. - 3:15 p.m.</td>
<td>Sponsored Break</td>
</tr>
<tr>
<td>3:15 p.m. - 4:30 p.m.</td>
<td>Workshops</td>
</tr>
<tr>
<td></td>
<td>Sustainable Aviation Guidance Alliance (SAGA) Database – Tools for Planning and Implementation</td>
</tr>
<tr>
<td></td>
<td>Improving Facility Management Through Effective Collaboration with Infor Mingle</td>
</tr>
<tr>
<td></td>
<td>Green Building – Modern Facility Management and the Facility Condition Index</td>
</tr>
<tr>
<td>5:00 p.m. - 6:30 p.m.</td>
<td>Welcome Reception</td>
</tr>
</tbody>
</table>

## Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. - 9:15 a.m.</td>
<td>Breakfast Keynote</td>
</tr>
<tr>
<td>9:30 a.m. - 10:45 a.m.</td>
<td>Workshops</td>
</tr>
<tr>
<td></td>
<td>O&amp;M Ready Implementation on Airport Procurement Processes</td>
</tr>
<tr>
<td></td>
<td>How to Take the Next Step in a Reliability Program</td>
</tr>
<tr>
<td>10:45 a.m. - 11:00 a.m.</td>
<td>Break</td>
</tr>
</tbody>
</table>
### Conference Schedule

#### Day 2 Con’t

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 11:00 a.m. - 12:15 p.m. | Workshops  
ATL Passenger Terminal Complex Operational Assessment Learnings  
Peak Performance: Retrocommissioning and Building Automation  
The Waterhub at Emory University – Sustainable Utility Management through Water Reclamation and Reuse |
| 12:15 p.m. - 12:30 p.m. | Break |
| 12:30 p.m. - 1:30 p.m. | Luncheon Keynote |
| 1:45 p.m. - 3:00 p.m. | Workshops  
Chicago Department of Aviation’s Sustainable Facility Management Initiatives and Sustainable Airport Manual  
Implementing Lasting Change: Creating a Culture of Sustainability within Organizations |
| 3:00 p.m. - 3:15 p.m. | Break |
| 3:15 p.m. - 4:30 p.m. | Workshops  
Efficient Inspect and Replace: Proactive Steam Trap Maintenance Program  
Climate Change Adaption at Toronto Pearson  
A Better Model for Developing an Effective Capital Plan and Budget – Using Lean to Enhance Employee Engagement |

#### Day 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 a.m. - 9:15 a.m.</td>
<td>Breakfast</td>
</tr>
<tr>
<td>9:15 a.m. - 9:30 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>Problem and Solution Session I</td>
</tr>
<tr>
<td>10:30 a.m. - 10:45 a.m.</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 a.m. - 11:45 a.m.</td>
<td>Problem and Solution Session II</td>
</tr>
<tr>
<td>11:45 a.m. - noon</td>
<td>Break</td>
</tr>
<tr>
<td>noon - 1:00 p.m.</td>
<td>Lunch and Closing Presentation</td>
</tr>
</tbody>
</table>
Keynote Speakers

Miguel Southwell

Aviation General Manager
Harstfield-Jackson Atlanta International Airport

Tuesday, Breakfast 8:00 a.m. - 9:00 a.m.

Miguel Southwell was named aviation general manager of Hartsfield-Jackson Atlanta International Airport in May 2014. He has more than two decades of aviation management experience.

At Hartsfield-Jackson, Southwell managed the conclusion of the Airport’s food and beverage concessions expansion, one of the largest expansion projects in the global airport industry. He also is leading the ATL team in executing a forward-thinking Master Plan that will chart the course of Airport development for the next 20 years.

Steve Nygren

President & Founder
Serenbe

Tuesday, Breakfast 8:00 a.m. - 9:00 a.m.

Steve Nygren has been a force in the Atlanta restaurant scene for more than 30 years. In the early ’70s, he founded the Peasant Restaurant Group and changed the face of casual fine dining. Today, he is the force behind the farm-to-table and sustainable community movement in the South through his work at Serenbe.

Steve Nygren is the Founder and President of Serenbe, a 1,000-acre sustainable community near Hartsfield-Jackson. Serenbe is focused on land preservation, agriculture, energy efficiency, green building, walkability, high-density building, arts and culture, and community living for multiple generations. It has been described as a model for future communities at the edge of cities or within redeveloping urban areas.
Keynote Speakers

Laverne Deckert
Product Manager
International Facilities Management Association (IFMA)
Tuesday, Luncheon 12:30 p.m. - 1:30 p.m.

Laverne Deckert is product manager for the International Facilities Management Association (IFMA), the world’s largest and most widely recognized international association for facility management professionals, supporting more than 24,000 members worldwide. In her current role, Deckert manages IFMA’s Professional Development programs for classroom delivery and instructor development, as well as IFMA’s standards initiatives. She also serves as the U.S. TAG Administrator on behalf of the American National Standards Institute (ANSI) for ISO/TC 267, Facilities Management.

Peter Way
Chairman, National Asset Management Strategy (NAMS) Group of the Institute of Public Works Engineering Australasia (IPWEA)
Wednesday, Breakfast 8:00 a.m. - 9:15 a.m.

The aim of the National Asset Management Strategy (NAMS) Group of the Institute of Public Works Engineering Australasia (IPWEA) is to provide better tools, resources and training to practitioners to improve their AM outcomes, lift competencies and enhance decision making by key stakeholders across a wide range of sectors dealing with public works infrastructure assets. Peter Way, PSM, has been fortunate to be able to provide high-level advice on infrastructure asset management to government and practitioners across Australasia and internationally. Peter’s involvement as part of the Standards Australia Committee in developing the ISO AM Standards has led to a number of Conference presentations throughout Australia and in South Korea, Portugal, Canada and New Zealand.
Keynote Speakers

Ryan Gravel

Founding Principal, Sixpitch

*Wednesday, Luncheon 12:30 p.m. - 1:30 p.m.*

Ryan Gravel, AICP, LEED AP, is an urban planner, designer and author working on site design, infrastructure, concept development and public policy as the founding principal at Sixpitch. His master’s thesis in 1999 was the original vision for the Atlanta Beltline, a 22-mile transit greenway that is changing both the physical form of his city and the decisions people make about living there. Now a $4 billion public-private project in the early stages of implementation, its health and economic benefits are already evident through record-breaking use of its first section of mainline trail and $2.4 billion of private sector redevelopment since 2005.

Scott Jenkins

General Manager of New Atlanta Falcons Stadium
Chairman, Green Sports Alliance

*Thursday, Luncheon noon - 1:00 p.m.*

Scott is the General Manager of the new Atlanta Falcons stadium, which will open in 2017. He previously served as VP of Ballpark Operations for the Seattle Mariners for seven years. Prior to this, Jenkins spent three years with the Philadelphia Eagles and six years with the Milwaukee Brewers, where he opened and operated newly constructed stadiums for both teams. He was the Director of Facilities and Events for Intercollegiate Athletics at the University of Wisconsin and was involved in the construction of the Kohl Center. Jenkins holds a degree in Construction Administration from the University of Wisconsin and is a graduate of the University of Washington Executive MBA program. Jenkins is a founding member of the Green Sports Alliance and serves as the board chair.
Liza Milagro, Senior Sustainability Planner, Hartsfield-Jackson

The Department of Aviation has committed to making Hartsfield-Jackson Atlanta International Airport (ATL) one of the world’s ‘greenest’ airports. ATL serves more than 96,000,000 people annually, and achieving this goal requires a Sustainability Master Plan that contains the programmatic elements necessary for achieving a 90-percent landfill diversion rate. A holistic and comprehensive methodology – that immediately responds to societal changes responsible for creating fluctuations in commodity value, volume, and compositions over a period of time – was considered for the almost 20,000 tons generated annually. The Waste Characterization Audit conducted in 2013 established baseline numbers that dictated the need for a series of policies, programs and best management practices. The Waste Zero Plan utilizes a structured systems engineering approach that contributed to finalizing the decision-making process and core design requirements for Green Acres ATL Energy Park. When fully implemented, this first-of-its-kind facility will create an overall solid waste management infrastructure that the Department of Aviation will oversee to ensure the reflection of BMPs – and utilization of commercial scale proven conversion technologies. Green Acres exemplifies sustainable leadership and innovation in aviation and establishes the process for cradle-to-cradle waste management.

Located in Salon 1

Proactive HVAC Analytics and Condition Based Maintenance

Thomas Sumner, Attune Business Development Leader, Honeywell

Analytics derived primarily from your Building Automation System information provides a new look into prioritizing Energy and Operations Savings opportunities. Most Building Automation Systems provide a rich amount of data that can provide insights into cost overruns and pending equipment failures. In some cases, it may be difficult to identify the proper actions needed to resolve, or the full impact of the issue.

This presentation will outline how you can maximize the life of your HVAC equipment, and the effectiveness of your maintenance activities while achieving optimized energy costs through condition based prioritization. These actions also serve to increase the overall quality of operations and increasing customer/client satisfaction.

Honeywell Building Solutions shares how it accomplishes savings results for its customers.

Located in Salon 2
Asset Management: Yesterday, Today and Tomorrow

Joseph Mahaz, President & CEO, Electronic Data, Inc. (EDI)
Patrick Neville, Vice President Airport Planning & Technical Services, GTAA
Michael Riseborough, Director Terminal Infrastructure, GTAA

This presentation will cover the journey through the progression of Enterprise Asset Management (EAM) and its maturing at the Greater Toronto Airport Authority (GTAA). It will include how assets were managed in the past, present and now the near future at GTAA. The presentation will discuss the business drivers and issues that facilitated the need for change. It will include how GTAA implemented an asset sustainability life cycle plan and the business processes and technology that are being implemented today so that it can achieve its asset sustainability plan in the future. This includes the new technologies that it is implementing to assure that it will be able to continue to provide a great customer experience while safely and sustainably maintaining all of GTAA’s facilities and facility assets.

As part of this presentation, the panel will discuss the ongoing migration from reactive and time-based preventive maintenance to predictive and condition based maintenance. The presentation will discuss the implementation of both business process and technologies which are allowing GTAA to create a center of excellence for EAM and Reliability Centered Maintenance.

Located in Salon 3

11:00 a.m. - 12:15 p.m. Sessions

Sustainable Communities: EcoDistrict Utilities

Charles F. Marshall, III, Senior Planning Manager, Asset Management, Hartsfield-Jackson

This session will include an overview of the formation of the ATL EcoDistrict. Using the guidelines developed by EcoDistricts.org, a Portland, OR-based trade organization, ATL stakeholders agreed to focus on improvements in such areas as energy usage; air quality and carbon emissions; access and mobility; and materials managements. After months of planning and coordination, Airport EcoDistrict ATL was formally established Sept. 10, 2013. The focus is on the activities, challenges and benefits of the Utilities Subcommittee and the value that it adds to the EcoDistrict community.

Located in Salon 1
 Thermal Mapping and Surveying – New Technology: More Accurate Roof Condition Assessment Saves Millions

Valerie Patterson, President, ICC Thermal Mapping & Surveying
Stan McDougall, CEO, COO, ICC Thermal Mapping & Surveying

This presentation will cover a case study for the State of Mississippi, demonstrating how ICC’s intelligence helped avoid $10 million in roof replacements. Thermal imaging was used 60+ years ago to enable the targeting of heat-seeking missiles and seeing opposing forces at night. Today, thermography is employed for myriad uses, from turning on faucets, to tracking and attacking enemies from aerial spy drones, to identifying the scope of moisture infiltration in building envelopes.

Thermography for facilities management has gone through an evolution of camera technology and procedures starting six decades ago with hand-held cameras and men walking on roofs in the dark. The new technology involves aerial data collection and patented computer analysis that identifies wet materials invisible to the naked eye. The goal in all cases is to accurately see inside roofs and walls to enable the visualization of what is invisible.

Florida State University, the University of Central Florida, the University of Houston, and universities administered by the State of Mississippi are among campuses that have secured the patented reports and proven the accuracy of the diagnostic intelligence by validating the results through coring and lab testing.

Located in Salon 2

How IWMS Technologies Can Impact Energy Reduction and Sustainability Goals

Troy Burnett, Vice President, EDI

Integrated Workplace Management Systems (IWMS) are classified as enterprise software solutions that bring together the various business processes and data repositories found in facilities management organizations into a single operating and information management system.

IWMS solutions can be implemented in manner that leverages integrations with Building Management Systems (BMS) and Energy Management Systems (EMS) to gather and analyze real time data feeds to determine both immediate and long term courses of action and asset management strategies.

This session will review functions such as Capital Project Management, Facility Condition Assessment, Energy, Water and Waste measurement and goal setting, and BMS/EMS data analysis and response.

Located in Salon 2
To respond to a growing need for practical, implementable sustainability practices, stakeholders from the airport industry formed the Sustainable Aviation Guidance Alliance (SAGA). SAGA initially was a volunteer organization that developed a guidebook and an online database of over 900 sustainability practices. Both of these resources were well received, but were static and quickly became outdated. Recognizing that the SAGA resources required additional work, the Transportation Research Board funded a project to enhance the SAGA website and improve the resources available to the industry on airport sustainability.

The project began in 2011 and the new website was launched in March 2015. There are five main components, or features, to the roadmap and website: learn, plan, measure, share and search. Users can also set up multiple profiles for their airports in order to store the airport characteristics for use in future searches without having to re-enter the information. The framework is designed to help airports integrate sustainability in the culture and business practices. The framework is a systematic approach to set goals, prioritize actions and monitor progress. The approach is scalable and flexible to varying operating environments and resources and can be modified to meet specific needs and circumstances.

Located in Salon 1

---

AssetMax – Data-based Payment Management: Relief for the Budgets, the Environment and Headaches

**Keith Tencleve, Director, AssetMax**

**Suzanne Peyton, AssetMax**

Facility managers are consistently challenged to reduce maintenance costs while at the same time balancing costs with the impact their decisions have on the environment. What if there were a way for facility managers to gain a better understanding of one of their most visible assets, leverage this information to manage this asset in an objective and data-driven way, and subsequently reduce the total cost of ownership? The asset we are describing is one of the last places most facilities think about: parking lot.

With examples focused on integrating these concepts into the private sector, this presentation will not be focused towards PhDs who care about the details of the science. Instead, it will be focused toward business leaders who are looking for a way to better manage their facilities by reducing costs and environmental impact.

This presentation will prove the financial returns available to the facility owner with a secondary focus on demonstrating environmental benefits and how facilities managers can utilize the data available to manage their facilities.

Located in Salon 3

---

Sustainable Aviation Guidance Alliance (SAGA) Database – Tools for Planning and Implementation

**Carol Lurie, Senior Planner/Principal, VHB**

To respond to a growing need for practical, implementable sustainability practices, stakeholders from the airport industry formed the Sustainable Aviation Guidance Alliance (SAGA). SAGA initially was a volunteer organization that developed a guidebook and an online database of over 900 sustainability practices. Both of these resources were well received, but were static and quickly became outdated. Recognizing that the SAGA resources required additional work, the Transportation Research Board funded a project to enhance the SAGA website and improve the resources available to the industry on airport sustainability.

The project began in 2011 and the new website was launched in March 2015. There are five main components, or features, to the roadmap and website: learn, plan, measure, share and search. Users can also set up multiple profiles for their airports in order to store the airport characteristics for use in future searches without having to re-enter the information. The framework is designed to help airports integrate sustainability in the culture and business practices. The framework is a systematic approach to set goals, prioritize actions and monitor progress. The approach is scalable and flexible to varying operating environments and resources and can be modified to meet specific needs and circumstances.

Located in Salon 1
Tuesday, June 23 Workshops
3:15 p.m. - 4:30 p.m. Sessions

Improving Facility Management Through Effective Collaboration with Infor Ming.le

**Michael Stone**, Product Manager, Infor Global Solutions

In today’s facility management industry, one of the most significant challenges is effective communication and collaboration because processes must be conducted in a linear fashion and in compliance with global standards. This negatively impacts a business’s agility and ability to make critical adjustments in a timely manner.

Infor Ming.le allows companies to expedite asset management operations and workflow through a combination of automated alerts and in-context information. Supervisors do not have to access a separate system to manage approvals, but instead receive push notifications directly from Infor Ming.le, complete with all necessary data to make an informed decision in real time.

Facility management companies and facility owners across the industry are overwhelmed with information. Endless streams of emails, phone calls and meetings make it increasingly difficult to share, store and organize critical day-to-day data. Simply tacking on a collaboration platform to an existing solution will not provide significant gains in operational efficiency, but utilizing Infor Ming.le, which integrates with both Infor and third-party systems, enables more effective real-time communication. This visibility and connectivity positions organizations to make better decisions regarding maintenance, energy consumption and equipment, which facilitates reduced costs and promotes a smaller environmental footprint. This presentation will discuss collaboration/contextual intelligence apps in comparison to Infor Ming.le.

Located in Salon 2

Green Building: Modern Facility Management and the Facility Condition Index

**Jeffery Ross-Bain**, CEO, Ross-Bain Green Building

Upper-level managers are often tasked with oversight of the facility operation and maintenance function. With the ever-growing complexity of systems and processes, this activity requires technical prowess, in addition to executive-level management skills. The tools needed have changed, too. Energy Star Portfolio Manager, the Facility Condition Index and Building Information Modeling are a few of the modern tools available to track, analyze and improve the facility management function. This presentation will look at modern facility management and discuss how performance measurement, benchmarking, energy management and sustainability improve not only the bottom line but, also occupant performance and productivity.

Located in Salon 3
John Fortin, Global Asset Management Practice Leader, CH2M

The U.S. aviation and airport markets experienced unprecedented growth rates in the 1970s, '80s and '90s. To keep pace with passenger and operational growth, airport managers were overwhelmed with the demands of capacity expansion. This, combined with the community pride associated with building iconic new infrastructure that met the needs of the traveling public, served as an economic growth engine of their region and represented the community’s heritage and aspirations.

CH2M is conducting an Airport Cooperative Research Program to bring asset management and TCO technology and best practices together in one place for the aviation industry. This research will establish a “systematic view” of asset procurement and ownership—closing the gaps. CH2M believes that upfront planning and design level decisions set the tone for proper asset management planning and a full understanding of total ownership costs. The project duration is 18 months, starting in the summer of 2015 and completing by winter of 2016.

Located in Salon 1

How to Take the Next Step in a Reliability Program

Tim Conrad, Senior Consultant, Electronic Data Inc.

Organizations today have endured many cost-cutting cycles, and the need to be agile to do more with less has never been more apparent. Strategic leaders recognize the need to achieve increased asset availability and reliability as the next step in managing efficiencies and driving down costs. However, reliability professionals are constantly challenged with convincing senior management to budget the dollars and stay with the commitment required to get a functioning reliability department established. As organizations move from maintenance management to asset management, the goal becomes more about managing risk than about the “break-fix” mentality that is so pervasive in many maintenance programs.

Conrad will present an innovative approach that can deliver a faster ROI by utilizing the capabilities of the current Enterprise Asset Management system and staffing to effectively take advantage of proven reliability tools and make an immediate impact. Utilizing EAM capabilities to calculate and measure risk, he will discuss how to enable management to quickly identify where the greatest risk to the organization exists. In addition, how to utilize proven workflows and KPIs will be discussed to instill productive completion in staff that in turn drives culture changes that will have the entire maintenance organization working toward reliability goals.

While many textbooks and consultants have outlined proven reliability concepts, the challenge facing most industries is getting their organization started down the reliability path; this presentation discusses how this approach has achieved short-term success.

Located in Salon 3
Kathy Roper, Associate Professor, Georgia Tech

In 2013, the City of Atlanta, Department of Aviation contracted for an operational assessment of the Atlanta Central Passenger Terminal Complex. The use of a Delphi group of airport operations experts was developed to research best practices for Hartsfield-Jackson to learn from and adapt to its organization. The resulting best practices and recommendations will be reviewed, as well as some industry best practices that also can be recommended are presented and reviewed. Learning outcomes include:

1. Understand the Delphi process and how it can provide expert input
2. Learn what the Atlanta airport found to be best practices for terminal operations
3. Facility management industry recommendations are also provided for evaluation of improved operations

Located in Salon 1

Peak Performance: Retrocommissioning and Building Automation

Cody David, Project Engineer, Southface
Adam Dovell, Commissioning Authority, WorkingBuildings

More than half of all energy consumed in commercial buildings is used for HVAC and lighting systems, but how much of this energy is actually deployed to a meaningful end? Building energy performance can be improved substantially by turning off unnecessary equipment, resetting system operating parameters, and optimizing building performance with intelligent building control systems. This session will explore ways to identify building performance issues through building monitoring, optimize building performance through automation, and restore/maintain building performance through retrocommissioning.

New construction facilities are becoming more and more efficient by being able to utilize the latest technologies, while existing buildings are often upgraded by repairing or replacing equipment as it breaks. By upgrading components individually over time, the facility operations and dynamics change, and the building typically becomes even less efficient than it originally was. Retrocommissioning takes a holistic view of the building, including its systems and occupants, in order to maximize energy efficiency and occupant comfort. Often it can also reduce operational and maintenance costs and system downtime. Median payback was found to be only 1.1 years by LBNL, and can be even shorter for high energy consuming facilities.

Located in Salon 2
The Waterhub at Emory University: Sustainable Utility Management Through Water Reclamation and Reuse

Jonathan Lanciani, CEO, Sustainable Water Consultants

This presentation will use Emory University as a case study for sustainable water resource management related to its campus district energy system. Providing heat and cooling services to over 70 campus buildings, the University has a significant water footprint for utility and process water applications. With a rated steam production capacity of 500,000 lbs. per hour and 11 chiller plants providing air conditioning to more than 12 million square feet of space, Emory has an extensive system of utility assets. The university – facing numerous water-related risks – set out to minimize its water use and wastewater discharge by recycling large volumes of campus water for its district energy system.

Commissioned in 2015, the newly developed reclaimed water system at Emory University is the largest ecology-based satellite reclamation system in the nation. The system has a design capacity of 400,000 gallons per day, which can be expanded at a later date. Wastewater is mined directly from the municipally-owned campus sewer system, and reclaimed water is provided to campus HVAC / utility systems (makeup for central chiller and steam plants). Serving four central utility plants, the system will reduce the campus water footprint by nearly 40 percent. With a reclaimed water distribution network of 4,400 linear feet, non-potable service will expand to as many as five other campus and privately-owned utility systems over the next few years.

Located in Salon 3
David Robbins, Project Administrator, Chicago Department of Aviation

The Chicago Department of Aviation (CDA) is taking industry-leading steps to advance sustainability initiatives into airport planning, administration, design and construction, operations and maintenance, and concessions and tenants at O’Hare and Midway International Airports. Introduced in 2003, the CDA’s Sustainable Airport Manual (SAM) helps ensure infrastructure and operations are efficient and sustainable. The guidance manual identifies best practices guided by specific metrics and standards. The SAM green airplane rating system rates each project’s ability to incorporate sustainable initiatives. Implementation of SAM is required in all contracts and operations at O’Hare and Midway as specified in requests for proposals and project kick-off meetings. More than 180 projects at Chicago’s airports have been evaluated under the SAM green airplane rating system.

SAM has proven to be a valuable tool to guide the implementation of the O’Hare Modernization Program (OMP), reducing project costs, emissions, waste and off-airport hauling, and water and energy use. The OMP is an $8 billion project that is transforming O’Hare’s airfield into a parallel runway layout system to reduce delays, increase capacity. It is the largest airport construction project in the U.S.

Located in Salon 1

Implementing Lasting Change: Creating a Culture of Sustainability within Organizations

Rochelle Routman, Vice President of Sustainability, Mohawk Flooring
Bonnie Casamassima, Commercial Sustainability Services Project Manager, Southface

How do you implement resilient change around sustainability within organizations of any scale? This workshop-based session will discuss creating a culture of sustainability at both a global public organizational level and a regional non-profit level. Rochelle Routman, Vice President of Sustainability, will discuss how sustainability has been embedded throughout every aspect of Mohawk Flooring’s culture from the organizational level to process and product level. Bonnie Casamassima, Commercial Sustainability Services Project Manager, will discuss how Southface is fostering a culture of sustainability throughout its diverse mission-driven partner organizations. Each person must connect personally to sustainable solutions within the organization to create truly lasting change. Session participants will investigate what a culture of sustainability means to them, as well as collaborate on tangible tools to implement change within their unique organizations.

Located in Salon 2
Efficient Inspect and Replace: Proactive Steam Trap
Maintenance Program – Penn State

Scott Yates, Operations, EDI

Pennsylvania State University estimates that it is saving 184,500 lbs. of steam per year or $3.85 million at current rates through the implementation of a proactive steam trap maintenance program in their CMMS.

This session will discuss how Penn State partnered with IBM Business Partner, EDI, to reduce energy losses, increase system safety and reliability, decrease greenhouse gas emissions, and improve steam quality.

An effective steam trap testing and repair program was supported through the use of the CMMS functionality for job plans, routes, preventive maintenance work orders and mobile. The Steam Trap Assessment Program utilized out-of-the-box functionality to perform routine inspection, identify/record condition, create planned-proactive follow-up work order automatically and schedule the efficient repair.

Four learning objectives:
1. According to the U.S. Dept. of Energy, what are the potential impacts of maintenance procedures on steam traps?
2. What are the four main benefits of improving a steam trap assessment program?
3. What are the key components of the Steam Trap Assessment Program and process?
4. What are best practices for implementing a Steam Trap Assessment Program in a CMMS or Enterprise Asset Management system including job plans, routes, preventive maintenance work orders and use of mobile?

Located in Salon 1

Climate Change Adaption at Toronto Pearson

Derek Gray, GTAA

Michael Riseborough, GTAA

This presentation will describe the Greater Toronto Airports Authority’s journey dealing with global climate change mitigation and adaption. GTAA adapted business models and hardening the built environment to cope with the changing climate. The Public Infrastructure Engineering Vulnerability Committee Risk Assessment Protocol was applied to the stormwater facilities and a large triple box culvert. The GTAA’s experience is one that can be adapted for many operations.

Located in Salon 2
Wednesday, June 24 Workshops

3:15 p.m. - 4:30 p.m. Sessions

A Better Model for Developing an Effective Capital Plan and Budget – Using Lean to Enhance Employee Engagement

Ted Anasis, Airport Planning Manager, San Diego County Regional Airport Authority

Capital budgeting – this is not a phrase typically associated with innovation, teamwork, collaboration, whole systems thinking or sustainability. Yet, faced with the need to develop a first-ever 20-year capital improvement plan and budget in just a few months, the San Diego County Regional Airport Authority needed a way to look across its whole system, to collaborate and innovate, and to ensure that its outcomes were aligned with its sustainability goals. The authority used Lean as a guiding framework – allowing them to meet its deadline and more.

The authority is starting to clarify the connection of their investments to sustainability. If they are able to maintain assets and extend their life, it is fostering multiple aspects of sustainability. The greenest, most economically viable buildings, infrastructure assets or equipment are the ones that they don't need to be built or replaced. When assets have reached the end of their life, there is great opportunity to find the most resource-efficient and resilient replacements.

Located in Salon 3
Ted Anasis
Ted Anasis, AICP, manages multiple airport projects in the Airport Planning Department at the San Diego County Regional Airport Authority since it was created in 2003. Anasis managed the first-ever adopted Airport Master Plan for San Diego International Airport that included the Green Build 10-gate terminal expansion that completed construction in 2013. He also led the preparation of the first 20-year capital program for the Airport. Anasis is a member of the LEAD San Diego’s IMPACT Class of 2015. He is a San Diego native and volunteers at the Torrey Pines State Reserve and with Rebuilding Together.

Troy Burnett
Troy Burnett serves as Vice President of IWMS solutions for EDI, an IBM Cloud and Smarter Infrastructure business partner and reseller. Troy has been implementing enterprise software solutions for over 20 years and has focused on Facility Management and Sustainability software implementations for over 10 years.

Bonnie Casamassima
Bonnie provides research, technical and administrative assistance for various CSS programs and cross-team projects. As a LEED Green Associate, she works on LEED documentation, administration and consulting. She also serves as an interior design expert contributing to Southface’s holistic sustainability approach while supporting continued portfolio program development.

Tim Conrad
Tim Conrad has over 25 years experience in the maintenance and reliability field leading organizations to process improvements and cost savings as the Director of Engineering and the Director of Maintenance. He has been working with the EDI team as a Senior Consultant since 2010 and has worked on multiple EAM Implementations for various industries including airports, manufacturing, pharmaceuticals and oil & gas. Tim has led the development and installation of Enterprise Asset Management systems for tracking asset lifecycle and maintenance management for multiple corporations. These installations included total electronic workflow in highly federally regulated environments.
**Speaker Profiles**

---

**Cody David**
Cody provides energy/water assessments and technical assistance services for commercial buildings. He also manages program development for Grants to Green and the Atlanta Better Buildings Challenge, provides support for operations and maintenance of Southface facilities, provides design/construction review support for ECLC, and conducts building science research related to energy efficiency.

---

**Adam Dovell**
Adam is a commissioning authority at WorkingBuildings, and holds numerous certifications including: professional engineer, certified energy manager, building energy modeling professional, and LEED accredited professional. His background includes energy auditing, energy modeling, retro-commissioning, commissioning, and construction management projects for a wide range of building types. Using his varied experience in the building industry, Adam leverages his unique skills in providing solutions for existing building projects, whether it’s system optimization, energy reduction, retro-commissioning, life cycle cost analysis, or energy conservation measure implementation.

---

**Derek Gray**
Derek Gray is the Associate Director, Environment and Aviation Infrastructure (Acting) at the Toronto Pearson International Airport. A licensed professional engineer employed at Toronto Pearson since 1996 with primary focus in environmental issues including stormwater management. Over the years at Toronto Pearson has also been a project manager for airside infrastructure and provided municipal engineering services as well. Currently, leading the GTAAs climate change adaptation work and overseeing both the Aviation Infrastructure group including Airfield Electric.

---

**Jonathan Lanciani**
Jonathan is the President and Co-Founder of Sustainable Water Consultants. With over 25 years of experience within the industrial water-treatment industry, Jonathan is the lead water-treatment consultant for the company. Throughout his career, Jonathan has championed water conservation and water recycle opportunities – applying a strong expertise in the North American District Energy, automotive, food & beverage and commercial & institutional water markets. He has worked with global corporations such as Toyota, Philip Morris, Kraft Foods, as well as Emory, Georgia Tech, Duke, Dartmouth, MIT and Harvard.
Speaker Profiles

Carol Lurie
Carol Lurie, a principal at Vanasse Hangen Brustlin, Inc./VHB, heads the firm’s Airport Sustainability Planning Team. She focuses on large complex environmental impact statements and airport sustainability projects. Carol has managed several sustainability projects including the Nashville International Airport Sustainability Study, and is managing the Salt Lake City Airport and Boston Logan International Airport Sustainability Management Plans.

Joseph Mahaz
Mr. Joseph Mahaz is the President and CEO of Electronic Data, Inc., (EDI) which is headquartered in St. Petersburg, Florida. Mr. Mahaz has a degree in Business Administration and holds a Professional Land Surveyor and Mapper license in the State of Florida. Mr. Mahaz has spent over 30 years supporting airport infrastructure management and facilities management. Mr. Mahaz is the Co-Chair of the ACI-NA Operations and Technical Affairs Committee, Facilities and Maintenance Working Group. Mr. Mahaz is a past Chair of the FAC Corporate Committee and served on the FAC Board of Directors for two years.

Charles F. Marshall, III
With over 20 years of experience and residing in Atlanta, Georgia, Charles has served since 2012 as the Utilities Manager with the Asset Management and Sustainability Group of the Planning, Development and Environmental Division of Hartsfield-Jackson Atlanta International Airport, the world’s busiest and most efficient airport. Charles has worked with the Department of Defense as a resource efficiency manager of energy management, energy performance contracting, building automated systems, energy security and renewable energy.

Liza Milagro
Liza Milagro is the Department of Aviation Senior Sustainability Planner. With 20 years of experience in sustainability, innovation and management, Ms. Milagro is responsible for helping ATL achieve Zero Waste by 2020. She leads the creation and implementation of the recycling program, which includes educating all passengers, employees, contractors, vendors and the community as a whole. Milagro is the Department of Aviation’s subject matter expert in sustainable resource management, and she provides oversight of ATLs Sustainable Management Plan with a concentration on materials and waste management from all cross-functional divisions and external stakeholders.
Speaker Profiles

Valerie Patterson
Valerie Patterson received her training at Rollins College and has over 30 years of business experience. She has extensive knowledge in the fields of architecture, engineering, construction and building industries. Patterson is a published author, professional speaker and a licensed Continuing Education Unit (CEU) instructor offering two credit hours. As a trained expert on infrared data collection, computer analysis and technical report generation, she has been a featured speaker at APPA, FLAPPA, TAPPA, CAPPA, NASFA, and the Florida as well as the Georgia Facility Manager’s Association. Patterson has been the lead contact for all client communications since ICC’s inception in September, 1999.

Suzanne Peyton
Suzanne Peyton, PE, is a project manager with AssetMax, focusing on using an engineering approach to solve parking lot maintenance problems. With a background developing pavement management systems for airports, Suzanne is responsible for leading pavement management initiatives for single site and multi-site clients seeking to optimize their maintenance budgets. Suzanne is a professional engineer with a B.S. in Civil Engineering from Louisiana Tech University.

Jean Pullen
Jean provides oversight and leadership for all commercial energy and water assessment work performed by Southface. Additionally, she provides technical assistance to Southface programs, services and business development efforts.

Kathy Roper
Kathy O. Roper is Professor of Integrated Facility and Property Management at Georgia Institute of Technology, College of Architecture, School of Building Construction in Atlanta. She teaches in the areas of graduate sustainable facility and property management, facility planning, project management, benchmarking and corporate real estate. In 2007, Roper was awarded an International Facility Management Association (IFMA) Fellow, the association’s highest recognition of service and lifetime achievement in the field. Roper is also a U.S. Green Building Council LEED Accredited Professional and an IFMA Certified Facility Manager.
Speaker Profiles

Jeffery Ross-Bain
Jeff Ross-Bain, LEED Fellow, is a registered professional engineer with over 30 years of experience in commercial and industrial HVAC design. Since 2001, Jeff has worked exclusively in the field of high performance green buildings. In 2009, Jeff formed Ross-Bain Green Building and provides expert technical and knowledge-based support services to help owners, architects, engineers and building users establish and realize their energy and environmental goals.

Rochelle Routman
Rochelle Routman is Mohawk’s Vice President of Sustainability, where she is joyously leading Mohawk Flooring in its sustainability endeavors and collaborating with customers and other partners on advancing product transparency and healthy interiors. She holds a B.S. from UGA and an M.S. in Public Policy from the Georgia Institute of Technology. She is a registered Professional Geologist, a Certified Hazardous Materials Manager, a LEED Accredited Professional (O+M) and a Living Building Challenge Ambassador. In 2014, Rochelle was recognized as one of the top 10 most powerful women leaders in sustainability and is now the alumni chair of that group.

Michael Stone
Stone has over 30 years’ experience working with Enterprise Asset Management systems. He has led product management, development and marketing for several commercial EAM systems. Prior to joining Infor, Mike was Vice President of a North American-based EAM company. He has applied EAM technology to a variety of industries including Facilities Management, oil & gas, chemicals & petrochemicals, food & beverage, mining & metals, manufacturing and water & wastewater. In different roles, Mike led design engineering systems, construction systems and maintenance systems for a worldwide engineering, construction and maintenance (EPCM) firm where he first created commercial asset management software.

Thomas Sumner
With over 30 years providing remote building solutions management, Tom has worked extensively to understand the business needs associated with building operations. He has formed teams focused on building customer relationships that lead to better understanding of facilities operations, and incorporating business needs into the overall operations strategy to maximize service and savings. Through these efforts, his team has successfully implemented solutions for thousands of facilities globally. He is a Certified Lean Expert and has incorporated this methodology into the Honeywell centralized building services provided by Honeywell’s ISO 9001 registered Global Service Response Center in Atlanta.
Speaker Profiles

**Keith Tencleve**

Keith Tencleve, PE, is the director of AssetMax where he leads pavement management initiatives for large and small clients seeking to optimize their asset management systems. Combining both engineering and business perspectives, Keith focuses on providing business solutions to parking lot maintenance problems. In addition to having a bachelor’s and master’s degrees in civil engineering, Keith received an MBA from the University of Arkansas.

**Scott Yates**

Scott has been with the EDI team since 2005. He has worked on EAM implementations across many industries for over a decade including life sciences, transportation, manufacturing, energy and more. Prior to joining EDI, he worked at Amgen in Thousand Oaks, CA, supporting its EAM program. He currently leads the operations team which includes all of EDI’s service delivery lines, both functional and technical. He has a Masters of Industrial and Technical Studies from California Polytechnic State University-San Luis Obispo and holds IBM Certifications for Maximo v6 and v7.
<table>
<thead>
<tr>
<th>Time</th>
<th>Salon I</th>
<th>Salon II</th>
<th>Salon III</th>
<th>Salon IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.</td>
<td>Conference Registration and Check-In</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td>Breakfast Keynote</td>
<td></td>
<td></td>
<td>Breakfast Keynote</td>
</tr>
<tr>
<td>8:00 a.m.</td>
<td>Green Acres ATL Energy Park: The Key to Waste Zero</td>
<td>Proactive HVAC Analytics and Condition Based Maintenance</td>
<td>Asset Management: Yesterday, Today and Tomorrow</td>
<td></td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>Sustainable Communities: EcoDistrict Utilities</td>
<td>Thermal Mapping Surveying – New Technology: More Accurate Roof Condition Assessment Saves Millions</td>
<td></td>
<td>Lunch Keynote</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td>Laverne Deckert</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>Updated Sustainable Aviation Guidance Alliance (SAGA) Database – Tools for Planning and Implementation</td>
<td>Improving Facility Management through Effective Collaboration with Infor Ming.le</td>
<td>Green Building: Modern Facility Management and The Facility Condition Index</td>
<td></td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td>Welcome Reception</td>
</tr>
</tbody>
</table>

End of Day 1

Welcome Reception
<table>
<thead>
<tr>
<th>Time</th>
<th>Salon I</th>
<th>Salon II</th>
<th>Salon III</th>
<th>Main Ballroom</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 a.m.</td>
<td>Conference Registration and Check-In</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>O&amp;M Ready Implementation on Airport Procurement Processes</td>
<td></td>
<td>How to Take the Next Step in a Reliability Program</td>
<td></td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td></td>
<td>ATL Passenger Terminal Complex Operational Assessment Learnings</td>
<td></td>
<td>The WaterHub at Emory University: Sustainable Utility Management Through Water Reclamation and Reuse</td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>Chicago Department of Aviation’s Sustainable Facility Management Initiatives and Sustainable Airport Manual</td>
<td></td>
<td>Implementing Lasting Change: Creating a Culture of Sustainability within Organizations</td>
<td></td>
</tr>
<tr>
<td>2:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30 p.m.</td>
<td>Efficient Inspect and Replace: Proactive Steam Trap Maintenance Program</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:30 p.m.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00 p.m.</td>
<td></td>
<td></td>
<td></td>
<td>End of Day 2</td>
</tr>
</tbody>
</table>

Breakfast Keynote
Peter Way

Lunch Keynote
Ryan Gravel
## Day-at-a-Glance

### Thursday, June 26

<table>
<thead>
<tr>
<th>7:30 a.m.</th>
<th>Conference Registration and Check-In</th>
<th>8:00 a.m.</th>
<th>Breakfast and Review of Problem Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m.</td>
<td></td>
<td>8:30 a.m.</td>
<td></td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td></td>
<td>9:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td></td>
<td>9:30 a.m.</td>
<td>Problem Statement</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Denise Brookins, Moderator</td>
<td>10:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Peter Way - ISO 55000</td>
<td>10:30 a.m.</td>
<td></td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>John Fortin - ACRP CH2M</td>
<td>11:00 a.m.</td>
<td>Problem Statement</td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>Denise Brookins, Moderator</td>
<td>11:30 a.m.</td>
<td></td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td>Laverne Deckert - ISO TC267 IFMA</td>
<td>12:00 p.m.</td>
<td>Lunch, Solution and Closing Presentation</td>
</tr>
<tr>
<td>12:00 p.m.</td>
<td>David Springstead - State of Good Repair MARTA</td>
<td>12:30 p.m.</td>
<td>Lunch Keynote</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td></td>
<td>1:00 p.m.</td>
<td>Scott Jenkins</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td></td>
<td>End of Day 3</td>
<td></td>
</tr>
</tbody>
</table>
Steering Committee

Michael Cheyne
Director of Asset Management and Sustainability, Hartsfield-Jackson Atlanta International Airport

Aaron Davis
Senior Asset Manager, Hartsfield-Jackson Atlanta International Airport

Denise Brookins
Asset Management Planner, Hartsfield-Jackson Atlanta International Airport

Derek Gray
Manager of Environmental Services, Toronto Pearson International Airport

Christopher Oswald
Vice President, Airports Council International, North America

Katherine Preston
Senior Director, Airports Council International, North America

Mike Riseborough
Director of Infrastructure, Toronto Pearson International Airport

Marci Reed
Chief Development and Communications Officer, Southface

Joey Shea
Development and Communications Coordinator, Southface

Shane Totten
Director Commercial Sustainability Services, Southface

Katherine Gurd
Project Manager, AECOM

Alicia McDougal
Project Engineer, AECOM

Isis Crowder
Creative Services Manager, Hartsfield-Jackson Atlanta International Airport
Fall 2016

Where
Georgia International Convention Center
2000 Convention Center Concourse
Atlanta, GA 30337

Contact
www.ISAMconference.com
ISAMinfo@atlanta-airport.com
@isamconference
/isamconference