

2017 NEC-AAAE Airports Conference

Session Descriptions

ENGINEERING:

Tuesday, March 28th

Engineering Track

Title: Airports Division Managers Briefing on FY 2016 – 2017

Presenter: Steve Urlass, David Fish, Patricia Henn, Mahendra Raghubeer, Matthew Thys, Lori Pagnanelli, Evelyn Martinez, FAA Eastern Region Management Team

Length: 90 minutes

Description: Steve Urlass, Manager Eastern Region Airports Division, David Fish, Assistant Division Manager, Patricia Henn, Manager Planning and Programing Branch, Mahendra Raghubeer, Manager Safety and Standards Branch, Evelyn Martinez, Manager New York ADO, Matthew Thys, manager Washington ADO, Lori Pagnanelli, Manager Harrisburg ADO will present a report on the Eastern Region Airports Division activities in FY 2016 and projected activities for the FY 2017.

Title: Performance Evaluation of Jet Fuel Resistant Polymer

Presenter: Robert Corun

Length: 90 minutes

Description: Polymer-Modified Asphalt (PMA) is often applied at airports to improve the performance of Hot Mix Asphalt (HMA) pavements with respect to permanent deformation and cracking. Unfortunately, spillage of jet fuel softens the commonly used PMAs, resulting in a decrease of the integrity of the asphalt. Coal tar sealers, which are known to be carcinogenic, are often applied to prevent the jet fuel damage. The application of these sealers has two drawbacks; the seal coatings crack, which allows fuel to damage the HMA pavement and their use places carcinogenic material onto a pavement that may be recycled. In laboratory tests jet fuel resistance has been measured by a maximum 2% loss of material from a pavement sample after 24 hours immersion in jet fuel. Standard unmodified and modified asphalts fail to meet this criteria. In 1995 a coal tar free jet fuel resistant PMA (PMA FR) for use at the Kuala Lumpur Airport was introduced. Since that time PMA FR has been evaluated in various laboratory studies and used at airports around the world. This asphalt exhibits the excellent mechanical properties of a PMA and meets the jet fuel resistant requirement as defined by the immersion test. This material was first introduced into the United States in 2002 at La Guardia Airport and in 2004 at Logan Airport. In 2014, the FAA

adopted the P-601 specification for fuel resistant asphalt pavement. This presentation will discuss these laboratory studies as well as field experiences with this asphalt

Wednesday, March 29th

Engineering Track

Title: FAA Tech Center R&D report on Pavements

Presenter: Ben Mahaffay

Length: 90 minutes

Description: Ben Mahaffay, FAA's William J. Hughes Technical Center will present various topics including the FAA's COMFAA 3.0, PAVEAIR and Foreign Object Debris detection technology.

Title: Update on Pavement Related Advisory Circulars

Presenter: Gregory Cline

Length: 90 minutes

Description: Gregory Cline, FAA National Headquarters Airports Safety and Standards Sr. Pavement Civil Engineer, will present a brief overview of recently updated Advisory Circular; AC 150/5320-6F Airport Pavement Design and Evaluation, published November 2016. The presentation will discuss the principle and significant changes in this AC. AC 150/5320-6F was reformatted and incorporated changes in FAARFIELD v1.41 pavement design software, including general guidance on how to use FAARFIELD, and much more. In addition, discussion of comments and questions on Advisory Circular 150/5335-5C Standardized Method of Reporting Airport Pavement Strength – PCN and Advisory Circular 150/5370-10G Standards for Specifying Construction of Airports, as well as brief discussion of the present updating of this AC, will complete this session.

Title: D/E Connector & Security Checkpoint at BWI

Presenters: Chris Donahue, Paul Shank, Stephen Lucchesi, Peter Florian, Dan Ramsey

Length: 90 minutes

Description: Chris Donahue, AECOM, Paul Shank, MAA, Stephen Lucchesi, ADCI, Peter Florian, PB, Dan Ramsey, & Whiting Turner will present the "D/E Connector and Security Checkpoint". The presentation will focus on the recently completed expansion to Concourses E and D. Presenters will focus on lessons learned from their given perspectives including Program Manager, Designers, Construction Manager, Contractors and Owner.

Title: Case Study of Subgrade Improvement Methodologies

Presenters: Timothy Ward, Joseph S. Grubbs

Length: 45 minutes

Description: Joseph S. Grubbs, Chief Aviation Engineer, Timothy F. Ward, CH2M will discuss situations on building upon a solid foundation is a key for longevity in airfield pavement performance. On subgrades with good foundational characteristics, the design process for new/replacement of airfield pavement is straight forward as defined in Advisory Circular (AC) 150/5320-6. However, airfield pavements can be designed to perform on marginal subgrades but they often present Engineers and Contractors with certain challenges, such as optimization of the pavement section or constructability. This presentation will discuss the subgrade requirements contained in AC 150/5320-6 and subgrade improvement methodologies used in airfield pavement such as: traditional undercutting; chemical stabilization, preloading/surcharge for consolidation; use of geotextiles and other pre-manufactured products; use of light weight aggregates and flowable fills, and use of rigid inclusions (grout columns) with a load transfer blanket. Finally, the presentation will discuss the construction of the aforementioned subgrade improvement methodologies by providing examples of their uses at various airports across the United States.

Title: In Pavement Lighting Fixtures

Presenters: Jim Heitmann, Eric Cheifet, John Schneider

Length: 45 minutes

Description: A Panel formed by Jim Heitmann, General Manager of Airport Redevelopment with the Port Authority of NY & NJ (PANYNJ), Eric Cheifet, Senior Engineer, LPI, Inc. and John Schneider, Eaton Crouse-Hinds Airport Lighting Products, will provide airports with a view into the Port Authority of New York and New, Jersey's dislodging of center line lights dislodged at John F Kennedy International Airport (JFK) that caused damage to aircraft in the spring of 2014. The event will provide an overview of the events at JFK and the PANYNJ response touching on the maintenance management improvement program, a root cause analysis resulting in a new recommended torque value and bolt type for in- pavement bolts at the PANYNJ that is above the criteria currently provided in guidance from the Federal Aviation Administration (FAA), immediate and medium-term solutions to reduce the risk of reoccurrence, and next steps with the industry and the Federal Aviation Administration (FAA) to develop solutions. The panel will share the PANYNJ road map for assessment and mitigation of the risk of in-pavement light failures.

Thursday, March 30

Engineering Track

Title: IES-RP-37 Outdoor Lighting for Airport Environments - A New Recommended Practice for the Aviation Community

Speaker: John Wujek

Length: 45 minutes

Description: Since 1929, the Illuminating Engineering Society-Aviation Lighting Committee (IES- ALC) part of the Illuminating Engineering Society (IES) has developed recommended practices and has fostered information exchange among aviation lighting manufacturers, designers, installers and airport end users for the aviation community. This presentation will provide the following learning objectives: Identify areas close to an airport and in the premises where this new recommended practice will apply; Compare obstacle limitation restrictions and height of lighting system installations on Aprons and in the vicinity of aircraft approach areas; describe the various areas on an airport and identify the applicable rules and guidance and Analyze the lighting design relative to aviation activities.

Title: Apron Area Lighting Technology, Standards, Design

Speaker: Carl D. Johnson & Jeffrey May

Length: 45 minutes

Description: The presentation will provide an overview of the current state of the apron area lighting industry. Available lighting technologies including high pressure sodium, metal halide, and LED will be discussed in detail. Additionally, differences in available fixture light color temperatures will be explained. Highlights from applicable FAA and IES industry standards will be provided, including discussion on recommended light levels, glare, and uniformity. The presentation will also include discussion on various tools available for the designer. System examples will be provided including ancillary equipment and optional equipment which may improve system operation and maintenance.

Title: Assessing Your Airfield Electrical Distribution System

Speaker: Samuel Mullen

Length: 45 minutes

Description: Samuel Mullen, II, Burns Engineering Group will discuss how airfield electrical distribution equipment and systems, due to increased airport passengers and airfield operation, have been pushed to extremes. Through new runway and taxiway projects, the airfield has expanded while safety, reliability and redundancy of their electrical distribution systems have not. Redundancy of electrical distribution equipment and revised circuit arrangements are an integral part to the safety and reliability of the airfield. This presentation will review methods to increase redundancy and improve

reliability of these electrical systems. Airfield revitalization projects can be effectively identified and prioritized using methods presented.

Title: FAA Tech Center
Presenter: Joe Breen
Length: 45 minutes
Description: Joe Breen from the FAA Technical Center will discuss current status of R&D projects on airport lighting and visual aids equipment.

OPERATIONS:

Tuesday, March 28th

Operations Track

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Presenter: Steve Urlass, David Fish, Patricia Henn, Mahendra Raghubeer, Matthew Thys, Lori Pagnanelli, Evelyn Martinez, FAA Eastern Region Management Team
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Title: Redevelopment of LaGuardia Airport
Presenter: Anthony Vero
Length: 90 Minutes
Description: Anthony C. Vero, P.E., Deputy General Manager, LGA, Port Authority of New York and New Jersey will provide a general overview of LGA, and discuss the scope and schedule of LaGuardia's multi-billion redevelopment program, which is replacing Terminals B, C and D, and rebuilding much of the airport's road and utility infrastructure. Presentation will also discuss the approach to delivering the work, and how the Port Authority is leveraging a Public Private Partnership to help ensure success.

Wednesday, March 29th

Operations Track

Title: Part 139 Inspection Overview

Presenter: Frank Loprano

Length: 45 minutes

Description: Frank Loprano, FAA Eastern Region Airport Certification/safety Inspector, will discuss the FAA Inspector's Preparation for the airport inspection, Inspection Findings, and ways to improve the outcome of your inspections.

Title: Airport Self-Inspection Program

Presenter: George Martinez

Length: 45 minutes

Description: George Martinez, manager of Airport Operations at Newark-Liberty International Airport, will discuss airport self-inspection programs including reporting findings and coordinating/documenting correction of deficiencies.

Title: Digital NOTAMs

Presenter: Brooke Beets, Phil Davenport

Length: 90 minutes

Description: Digital NOTAMs greatly reduce the wait time between NOTAM submission and NOTAM publication in the Federal NOTAM System (FNS), the National Airspace (NAS) and other public NOTAM sites. This presentation will look to make all Airport Operators aware of the FAA's Digital NOTAM System, its use, and NOTAM format education. Additionally, it will assist airports in the activation of NOTAM Manager, help with the required document preparation, and allow a question/answer session for all NOTAMs including FICON/TALPA information.

Title: Construction Safety and Phasing Plan

Presenter: TBA

Length: 45 minutes

Description: Discussion on how to review airport projects involving Construction Safety and Phasing Plans (CSPP).

Title: FAA Airport Construction Advisory Council
Presenter: Dave Siewart & Mark McCumber
Length: 45 minutes
Description: David Siewert, Manager John F. Kennedy International Airport, Air traffic Control Tower an brief and Mark McCumber will update on FAA initiatives for enhancing air traffic operations during airport construction projects. The briefing will also identify services available to airport sponsors.

Title: Airport Pavement Maintenance
Presenter: Timothy Mentel, Christopher S. Decker
Length: 45 minutes
Description: Timothy Mentel, C.M., PMP Manager of Project Quality and Christopher S. Decker, P.E. Vice President & Senior Project Manager, will review the most common distresses found in asphalt and concrete pavements on airfields. Presenters will provide the causes and recommended repairs for distresses typically found during airfield PCI inspections. Discussion will cover issues with pavement materials, construction of pavements, traffic and environmental factors that result in poor pavement conditions

Title: Introduction to ACRP
Presenter: Melissa Smart
Length: 45 minutes
Description: ACRP is an industry-driven, applied research program that develops practical solutions to problems faced by airports. "Introduction to ACRP" will address the need and purpose of ACRP; introduce participants to the ways they can get involved in and benefit from ACRP's research process; and highlight several of ACRP's well-respected research reports, guidebooks, and other tools that benefit airport operators, consultants, and others.

Thursday, March 30th

Operations Track

Title: Anatomy of a Successful Aircraft Overrun & EMAS
Presenter: Trip Thomas
Length: 45 minutes
Description: Trip Thomas, Zodiac Aerospace EMAS will discuss the timeline of the overrun of EA 3452 on XXXX. Trip will discuss all that took place in the 80 hours after the overrun ending

with a fully restored & functional EMAS bed. Additionally, he will discuss implementing our emergency reaction plan once hearing about the overrun, mobilizing for the repair, along with the actual repair.

Title: Airport Real Time Friction Condition Measurement

Presenter: Joe Vickers

Length: 45 Minutes

Description: This presentation will give the overview and end results of the FAA demonstration project using the SafeLand technology incorporating 6 major airlines (American Airlines, Alaska Airlines, Delta Air Lines, Southwest Airlines, United Airlines and JetBlue Airways) with nearly 1,500 aircraft and 2.5 million collected landing data at 138 airports. The presentation will show the use of the developed system with impact on airport and airline operations, safety and economic advantages.

Additionally, this presentation will provide an overview of AST's mobile surface contaminant detection system that identifies surface contaminants (water, slush, snow, ice), measures the coverage and depth of the contaminant along with surface and air temperatures. The graphical geospatially correct output is also presented in tabular format enhancing the airport operator's experience when maintaining FICON NOTAMS and enabling automated FICON reporting. AST's product roadmap includes development of friction forecasts, advanced analytics and maximum friction prediction...among others.

Title: Outlining the Benefits of a Statewide Airfield Maintenance Program

Presenter: John McNeely

Length: 90 minutes

Description: John McNeely from Hi-Lite Airfield Services, LLC will discuss balancing airfield compliance with available budgets is a common struggle for airports. As part of a state's initiatives to monitor the operational pavements at airports across the state, a statewide maintenance program eliminates procurement burdens and achieves a higher level of safety and compliance as per federal, regional, and state mandates. A statewide program is a proactive approach used to fix and prevent issues before they occur. These types of programs can be customized to fit airport safety needs with a wide range of services to maintain safety with efficient and environmentally sound practices. Case studies on how airports have maximized the benefits of other statewide programs will be presented in addition to various award criteria used by states to identify qualified vendors.

MANAGEMENT:

Tuesday, March 28th

Management Track

Title: Airports Division Managers Briefing on FY 2016 – 2017

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Description: Anthony C. Vero, P.E., Deputy General Manager, LGA, Port Authority of New York and New Jersey will provide a general overview of LGA, and discuss the scope and schedule of LaGuardia's multi-billion redevelopment program, which is replacing Terminals B, C and D, and rebuilding much of the airport's road and utility infrastructure. Presentation will also discuss the approach to delivering the work, and how the Port Authority is leveraging a Public Private Partnership to help ensure success.

Wednesday, March 29th

Management Track

Title: New Approaches & Technologies that Affect the NAS

Presenter: Maria Stanco, Carmine Gallo, Skip Wiegand, Ryan Heeralall

Length: 90 Minutes

Description: Carmine Gallo, Regional Administrator Eastern Region, Maria Stanco, Deputy Regional Administrator Eastern Region, Skip Wiegand, NextGen Branch Flight Standards and Ryan Heeralall, Manager, Runway Safety Program The aviation world is dynamic. Constant changes to include regulations, technologies and aircraft push the innovation and creativity of the aerospace industry and in particular the FAA where we have to change our approach. Our panel will cover the latest developments in the NextGen and Unmanned Aircraft Systems (UAS) programs as well as the new Part 107 rule and how it

affects aerospace's future. Carmine Gallo will speak on FAA's latest accomplishments implementing the Next Generation Air Transportation System. NextGen technologies are now helping to keep airplanes on schedule as they are traveling through some of the most congested airspace in the US, deploying new infrastructure and communication systems. Skip Wiegand will provide an update on FAA efforts to integrate UAS into the national airspace and the newly implemented Part 107 rule. It seems like every day the number of uses for UAS technology expands: There are a lot of questions to be answered before we can fully integrate UAS into the National Airspace System. While FAA addresses these new technologies, safety remains our primary mission. Maria Stanco will look at ways FAA works with the private sector to develop Commercial Space programs. Our final speaker, Ryan Heeralall, will look at national runway safety initiatives to address runway incursions through a corporate approach.

Title: Boosting Airport Management Strategies with Data & Analytics

Presenter: David Ziembicki

Length: 45 minutes

Description: Collecting data from a venue's Wi-Fi network, geolocators, and third party sources such as social media is just the beginning. Synthesizing data into digestible, actionable information is where the real magic happens. Airports can learn about their passenger's demographics, website and browsing behavior, location and pathing patterns. All of this information allows an airport to get smarter about where they place concessions, how they distribute staff, and how to better serve their customers. Boingo Vice President, Account Management, David Ziembicki will review the power of smart wireless networks and how to best source their data and analytics.

Title: Managing Airport Parking Using Web-Based GIS at BWI

Presenter: Julie Spangler, Paul Shank, Ali Logmanni

Length: 45 minutes

Description: Paul Shank, Chief Engineer BWI, Ali Logmanni, Manager, Division of Engineering Maryland Aviation Administration (MAA) and Julie Spangler, Project Manager JMT Technology Group will present on a program to improve the quality of access to airport-wide information using a secure web portal known as Airport Information Retrieval Portal (AIRPortal). Using AIRPortal, users can access data and applications that facilitate critical MAA business functions. The Gate Management module of AIRPortal provides the users and with BWI passenger boarding bridge data and also provides tools for the Airport Operations staff to schedule certain aircraft parking positions at the airport.

Title: Compliance update
Presenter: David Cohen
Length: 45 minutes
Description: David Cohen, Compliance Program Manager will cover new policies and practices in the compliance arena including those related to land releases, the new hangar use policy, FAA approval of non-aeronautical events, access restrictions, and Form 126 and 127 reporting.

Title: Airports Obstructions: Managing the Hidden Costs
Presenter: Enrique Sanabria
Length: 45 minutes
Description: Enrique Sanabria, Senior Airport Engineer at the PANYNJ, will discuss the requirement for certificated airports to protect and mitigate obstructions as described in Part 139. Typically, this includes Part 77 and TERPS surfaces because encroachment of these surfaces results in tangible impacts to airport performance (e.g. higher approach minimums). However, despite these protections, air carriers typically see a loss in level of service because they are required to use different evaluation criteria which results in performance penalties. This "cost" is often overlooked because the current evaluation procedures do not require airports or airlines to work together. This can result in lower passenger throughput, fueling revenues and concession spending. Managing this challenge is especially difficult in areas prone to development, and requires the collaboration of numerous stakeholders. The Port Authority of NY & NJ has created an Obstruction Evaluation Workgroup with FAA, airline and municipal representation to comprehensively and proactively evaluate and address proposed development.

Title: Protecting Navigable Airspace: The 7460 Process
Presenter: Diogenes Ramos, Gerard Lebar, Mike Helvey
Length: 90 minutes
Description: Diogenes Ramos, Airports Division; Gerard Lebar, EFPO; and Mike Helvey, ATO-OEG, will discuss FAA procedures and composition of Letters of determinations for proposal that may affect navigable airspace.

Thursday, March 30th

Management Track

Title: Airline Industry Update & Impact of Pilot Rule Changes
Presenter: Jeffrey Hartz
Length: 45 minutes

Description: Jeffrey Hartz, Mead & Hunt-Air Service Development will discuss the airline industry at a high level and how the changes impact air service airports around the country, but especially in the Northeast. Discussion of the importance of air service development efforts will be made as well.

Title: Runway Incursion Mitigation and Automated Modification of Standard Process

Presenter: Khalil Kodsí & Steve Debban

Length: 45 minutes

Description: Khalil Kodsí & Steve Debban, FAA National Headquarters, will discuss the FAA Runway Incursion Mitigation (RIM) program.

Title: Kickstart Your GIS Program to Improve Efficiency & Manage Costs

Presenter: Andrew Walter

Length: 45 minutes

Description: Andrew Walter, Associate AIA, LEED AP, Principal The Jones Payne Group will focus on leveraging the FAA's Airport Geographic Information System (AGIS) requirements to improve your in-house GIS tools. We will cover a short introduction to 5300.18B and how that is used for information definition and submission. How you can leverage that defined process to gain in-house GIS tools and insight into your assets/airport. An overview of tools needed to get started and where can you access to data. Examples of how airports are utilizing these systems will be highlighted.

Title: Getting more out of FAA AGIS Program

Presenter: Eric Risner, Tom Mackie

Length: 45 minutes

Description: The presentation will provide information on how other airports are benefitting from such GIS-centric software for operations, monitoring and compliance; as well as other related benefits such as asset management, improved budgeting through condition assessment management, etc..

The presentation will include an overview of common and advanced software functions in use for ops/monitoring/compliance area, a brief review of the wide diversity of available software, key regulatory compliance requirements, best practices, and how staff can evaluate and select the best options for their needs.

Applications using modern web-based cloud services and local GPS capabilities are enabling greater logging efficiency and data accuracy, and preparing a data stream that can be relied up for daily briefings of staff and executives, a comprehensive database for

SMS data analysis, and required compliance monitoring using data validation capabilities.

FINANCE, ENVIRONMENT & PLANNING:

Tuesday, March 28th

Finance, Environment & Planning Track

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Wednesday, March 29th

Finance, Environment & Planning Track

Title: Runway Extensions PennDot Aviation Perspective

Presenter: Thomas Tomczyk

Length: 45 Minutes

Description: Thomas Tomczyk, Airport Planning Manager, Pennsylvania Department of Transportation - Bureau of Aviation offers perspective on the planning of runway extensions. The Bureau administers AIP funds under the Pennsylvania State Block Grant

Program. As a result, it conducts technical, environmental and funding feasibility reviews of airports planning studies involving runway extensions, and could eventually provide Block Grant and/or state aviation funding to the project. The presentation will include: Purpose and Need: Planning vs. Funding; Runway Length Determination; Application of Design Standards; Project Formulation and Funding Considerations

Title: Aerotropolis Planning – An Industry Survey

Presenter: Matthew Lee

Length: 45 minutes

Description: The primary reason to define an aerotropolis and create implementation strategies is to support the market position of the Airport and the City it serves. A broad-based review of 182 airports worldwide suggests that airport cities and aerotropolis areas fall into two main categories: those that have evolved in response to spontaneous market demand; and those that are evolving in response to policy and planning, typically led by the local city or regional government. The review of airport city developments reveals, regardless of category, the most successful airport cities are those that have developed in response to market demand. Airports generate significant economic activity in their respective regions and certain components of this economic impact can be measured, along with impacts of new land uses adjacent to the airport. In-depth market analysis and research is required to understand the market absorption of these land uses over time, and how much the proposed development will truly be “net new” economic activity stimulated by the airport city, as opposed to transfer and relocation of activity from elsewhere in the region. To optimize the economic benefit of the airport city multi-agency/jurisdictional buy-in is required because airport city boundaries often include areas outside of the airport’s jurisdiction. Packaging economic incentives and/or a region’s business-friendly environment, as well as marketing an airport and its adjacent facilities can help attract private-sector interest. Defining an appropriate concept for the airport city will not, in itself, achieve the desired outcomes of protecting the market position of the airport and generating new economic growth. It is essential that the airport and other key airport-related stakeholders are directly involved in the process of establishing land use priorities and that appropriate weight is given to the importance of the airport and the wider aviation industry to a regional economy.

Title: Integrating Sustainability into Airfield Improvements

Presenters: Carly Shannon

Length: 45 minutes

Description: The session will highlight the two airfield projects to date that have received Envision awards through the Institute for Sustainable Infrastructure; T.F. Green Airport became the first recipient, achieving Gold for their Runway 5 Extension, and Detroit

Metropolitan Wayne County Airport received Silver for their Reconstruction of Runway 4L and Associated Taxiways project. The presenter will focus on how sustainability was integrated into the airfield projects, the benefits of Envision and its applicability to airports, lessons learned, and future applications of sustainable design.

Title: FAA Guidelines on Integrating Sustainability in Airport Planning
Presenter: Thomas Cuddy
Length: 45 minutes
Description: Thomas Cuddy, FAA National headquarters, will discuss FAA guidelines for Integrating Sustainability into Airport Field Improvement

Title: AIP Procurement Workshop
Presenter: Patricia Henn
Length: 90 minutes
Description: Patricia Henn, Manager of Airport Planning, Finance and Environmental branch, will discuss various topics related to Airport Improvement Program (AIP).

Title: Environmental Workshop
Presenter: Andrew Brooks, FAA
Length: 90 minutes
Description: Andrew Brooks, FAA Eastern Region Airport Planning, Finance and Environmental branch, will discuss various topics related to Airport Environmental Policies.

Thursday, March 30th

Finance, Environment & Planning Track

Title: New Garden Airport's Development from Private to Municipal Owned
Presenter: Jonathan Martin
Length: 45 minutes
Description: Jonathan Martin, Aviation Director for New Garden Airport located in Toughkenamon, PA will present on New Garden Airport's development from a private owned airport to a municipal aviation facility. Focus will be on the infrastructure development of the

airport over the last 10 years as well as our community educational events and youth programs offered to promote the growth of General Aviation

Title: Parking Expansion: At the Crossroad of Additional Revenues
Presenters: Dave Albersman, Jerry Schwientek
Length: 45 minutes
Description: Dave Albersman and Jerry Schwientek, Project managers and planners for Kimley-Horn, will share how Land-constrained large hub airports are struggling to keep up with demand for parking and other landside facilities while maintaining a high level of customer service for airline patrons. This presentation will provide a case study on the process and the issues that were addressed in the \$450 million expansion of parking and rental cars at the Minneapolis/ St Paul International Airport.

Title: New Community Involvement Advisory Circular
Presenter: Thomas Cuddy
Length: 90 minutes
Description: Thomas Cuddy, FAA National headquarters, will discuss topics related to New Community Involvement Advisory Circular

HOT MIX ASPHALT WORKSHOP:

Tuesday, March 28th

Hot Mix Asphalt Workshop

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Presenter: Robert Corun

Length: 90 minutes

Description: Polymer-Modified Asphalt (PMA) is often applied at airports to improve the performance of Hot Mix Asphalt (HMA) pavements with respect to permanent deformation and cracking. Unfortunately, spillage of jet fuel softens the commonly used PMAs, resulting in a decrease of the integrity of the asphalt. Coal tar sealers, which are known to be carcinogenic, are often applied to prevent the jet fuel damage. The application of these sealers has two drawbacks; the seal coatings crack, which allows fuel to damage the HMA pavement and their use places carcinogenic material onto a pavement that may be recycled. In laboratory tests jet fuel resistance has been measured by a maximum 2% loss of material from a pavement sample after 24 hours immersion in jet fuel. Standard unmodified and modified asphalts fail to meet this criteria. In 1995 a coal tar free jet fuel resistant PMA (PMA FR) for use at the Kuala Lumpur Airport was introduced. Since that time PMA FR has been evaluated in various laboratory studies and used at airports around the world. This asphalt exhibits the excellent mechanical properties of a PMA and meets the jet fuel resistant requirement as defined by the immersion test. This material was first introduced into the United States in 2002 at La Guardia Airport and in 2004 at Logan Airport. In 2014, the FAA adopted the P-601 specification for fuel resistant asphalt pavement. This presentation will discuss these laboratory studies as well as field experiences with this asphalt

Wednesday, March 29th

Hot Mix Asphalt Workshop

Title: Pavement Design and Writing Specification

Presenter: Guillermo Felix

Length: 90 Minutes

Description: Guillermo Felix, FAA's Eastern Region Team Leader for Airport Standards, will discuss current FAA flexible pavement design methods and the selection of binder and surface courses. The Eastern Region Laboratory Procedures Manual (ERLPM) and current FAA hot mix asphalt specifications P-401 and P-403 will be introduced. A discussion on laboratory accreditation will be included.

Title: Job Mix Formula

Presenter: Cindy LaFleur

Length: 90 minutes

Description: Cindy LaFleur, Callahan Industries, will discuss procedures for the development of Job Mix Formula using Marshal Design method. Aggregates and asphalt cement qualities

and how they contribute to the mix performance, will be explained. The use of the ERLPM Section 2 and Appendix A thru C will be explained.

Title: Job Mix Formula -Gyratory Compactor

Presenter: Cindy LaFleur

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Title: Random Sampling and Quality Assurance

Presenter: TBA

Length: 90 minutes

Description: Discussion on the requirements of the FAA Item P-401 and the guidance found in the ERLPM, Section 3, for determining the quality of plant produced material as well as field compacted material. The presentation will include requirements for testing laboratories, random sampling techniques, Test Section, Marshall Criteria for plant produced materials and field compaction. Completion of forms found in ERLPM Appendix D will be explained. The presentation will follow with the FAA Item P-401 and the guidance found in the ERLPM, Section 3, for determining the quality of plant produced material as well as field compacted material. The presentation will include requirements for testing laboratories, random sampling techniques, Test Section, Marshall Criteria for plant produced materials and field compaction. Completion of forms found in ERLPM Appendix D will be explained.

Thursday, March 30th

Hot Mix Asphalt Workshop

Title: Statistical Analysis

Presenter: Guillermo Felix

Length: 90 minutes

Description: Guillermo Felix, FAA Eastern Region Paving Engineer, will discuss the statistical analyses' theory to determine quality of pavement material. Procedures for calculating Percent Within Limit (PWL) will also be discussed.

Title: Contractor QC

Presenter: John Savastio

Length: 60 minutes

Description: John Sevastion, will discuss Contractor's Quality Control Plan and guidance found in ERLPM Section 7. Completion of forms found in ERLPM's Appendix C will be explained.

Title: Workshop Summary

Presenter: Guillermo Felix

Length: 30 minutes

As of 3.24.2017