

2014 FAA Worldwide Airport Technology Transfer Conference

Innovations in Airport Safety and Pavement Technologies

August 5-7, 2014

Stockton Seaview Hotel
Galloway, New Jersey, USA

CONFERENCE PROGRAM

Sponsored by:



Federal Aviation
Administration



STOCKTON
NEW JERSEY'S
DISTINCTIVE
Public College

2014 FAA Worldwide Airport Technology Transfer Conference

AGENDA AT A GLANCE

Monday, August 4, 2014

3:00 p.m. – 8:00 p.m. Conference Registration
HOTEL LOBBY

10:15 a.m. – 10:45 a.m. Break with Exhibitors
BAYVIEW BALLROOM

10:45 a.m. – 12:30 p.m. Concurrent Sessions
Session 5a: Salon A
Session 5b: Salon B

Tuesday, August 5, 2014

7:00 a.m. – 5:30 a.m. Conference Registration
BAYVIEW BALLROOM FOYER

7:00 a.m. – 8:00 a.m. Breakfast with Exhibitors
BAYVIEW BALLROOM

12:30 p.m. – 1:30 p.m. Lunch with Exhibitors
BAYVIEW BALLROOM

1:30 p.m. – 3:15 p.m. Concurrent Sessions
Session 6a: Salon A
Session 6b: Salon B

10:15 a.m. – 10:45 a.m. Break with Exhibitors
BAYVIEW BALLROOM

10:45 a.m. – 12:30 p.m. Concurrent Sessions
Session 1a: Salon A
Session 1b: Salon B

3:15 p.m. – 3:45 p.m. Break with Exhibitors
BAYVIEW BALLROOM
Sponsored by Applied Research Associates, Inc. (ARA)

3:45 p.m. – 5:30 p.m. Concurrent Sessions
Session 7a: Salon A
Session 7b: Salon B
Session 7c: Eisenhower

Free Evening for all Attendees

12:30 p.m. – 1:30 p.m. Lunch with Exhibitors
BAYVIEW BALLROOM

1:30 p.m. – 3:15 p.m. Concurrent Sessions
Session 2a: Salon A
Session 2b: Salon B

3:15 p.m. – 3:45 p.m. Break with Exhibitors
BAYVIEW BALLROOM

3:45 p.m. – 5:30 p.m. Concurrent Sessions
Session 3a: Salon A
Session 3b: Salon B
Session 3c: Eisenhower

7:00 p.m. – 9:00 p.m. Networking Reception
PINES PAVILION
Sponsored by SRA International, Inc.

Thursday, August 7, 2014

7:00 a.m. – 12:30 a.m. Conference Registration
BAYVIEW BALLROOM FOYER

7:30 a.m. – 8:30 a.m. Breakfast with Exhibitors
BAYVIEW BALLROOM

8:30 a.m. – 10:15 a.m. Concurrent Sessions
Session 8a: Salon A
Session 8b: Eisenhower

10:15 a.m. – 10:45 a.m. Break with Exhibitors
BAYVIEW BALLROOM

10:45 a.m. – 12:30 p.m. Concurrent Sessions
Session 9a: Salon A
Session 9b: Eisenhower

12:30 p.m. Conference Adjourns
Box Lunch Available (Hotel Lobby)

1:00 p.m. – 3:00 p.m. Tour to National Airport Pavement Test Facility
and ARFF Test Facility (Buses depart from hotel
lobby promptly at 1:00 p.m.)

Wednesday, August 6, 2014

7:00 a.m. – 5:30 a.m. Conference Registration
BAYVIEW BALLROOM FOYER

7:30 a.m. – 8:30 a.m. Breakfast with Exhibitors
BAYVIEW BALLROOM

8:30 a.m. – 10:15 a.m. Concurrent Sessions
Session 4a: Salon A
Session 4b: Salon B

AGENDA

Tuesday, August 5, 2014

BAYVIEW BALLROOM

7:00 AM – 8:00 AM

Breakfast with Exhibitors

BAYVIEW BALLROOM

8:00 AM – 10:15 AM

Opening Session

Welcome Remarks – Dr. Herman Saatkamp, President, Richard Stockton College of New Jersey

Welcome Remarks – Dennis L. Filler, Director, FAA William J. Hughes Technical Center

Welcome Remarks – Rep. Frank LoBiondo, NJ 2nd District

Welcome Remarks – Mike O'Donnell, Director, FAA Office of Airport Safety and Standards

Welcome Remarks – Dr. Michel J. Hovan, Manager, FAA Airport Technology R&D Branch

Keynote Address – Scott Murrell, P.E., Chief Civil Engineer, Port Authority of New York and New Jersey

BAYVIEW BALLROOM

10:15 AM – 10:45 AM

Break with Exhibitors

10:45 AM – 12:30 PM

Concurrent Sessions

SALON A

Session 1a:

Safety Management at Airports

Moderator: Ryan King, *Federal Aviation Administration*

S10084: Use of SMS Risk-Based Methodology to Identify and Mitigate Airfield Hazards

Young, Seth, *The Ohio State University Center for Aviation Studies*

S10111: Low-Cost Surface Surveillance Research

Herricks, Ed, *University of Illinois Urbana-Champaign*

S10085: "The Perfect Storm" Lexington & Comair 5191

Pruchnicki, Shawn, *The Ohio State University Center for Aviation Studies*

S10086: Wrong Runway Departures – How are we doing?

Pruchnicki, Shawn, *The Ohio State University Center for Aviation Studies*

S10100: Airport Safety Orange Construction Signs

Klass, Jennifer, *SRA International, Inc.*

SALON B

Session 1b:

Session 1B: Airport Pavement Design Methods

Moderator: David R. Brill, *Federal Aviation Administration*

P10006: New Methodology for Computing Thickness of Flexible Overlays of Military Airfield Pavements

Bianchini, Alessandra, *U.S. Air Force Civil Engineer Center*

Gonzalez, Carlos, *U.S. Army Engineer Research and Development Center*

P10015: Review of FAA LCCA Methodology

Zollinger, Dan, *Texas A&M University Little, Dallas, Texas A&M University*

McFarland, Frank, *Consultant*

Burke, Dock, *Consultant*

P10037: Design Program Based PCN Evaluation of Aircraft Pavements

Tipnis, Manoj, *Larsen & Toubro Ltd.*

Patil, Mohan, *Larsen & Toubro Ltd.*

P10090: Performance Trends in Airport Runway Pavements

Hall, Jim W, *Applied Research Associates, Inc. (ARA)*

Speir, Richard, *Applied Research Associates, Inc. (ARA)*

Shirazi, Hamid, *Applied Research Associates, Inc. (ARA)*

Mustafa, Endri, *Applied Research Associates, Inc. (ARA)*

Song, Injun, *SRA International, Inc.*

P10098: Changes of Design Philosophy for PCC Pavements

Guo, Edward, *Consultant*

BAYVIEW BALLROOM

12:30 PM – 1:30 PM

Lunch with Exhibitors

1:30 PM – 3:15 PM

Concurrent Sessions

SALON A

Session 2a:

Airport Planning and Design

Moderator: Lauren Vitagliano, *Federal Aviation Administration*

S10044: Risk Assessment for Runway End Safety Areas at Canadian Airports

Shirazi, Hamid, *Applied Research Associates, Inc. (ARA)*

Speir, Richard, *Applied Research Associates, Inc. (ARA)*

Mackay, Joe, *WSP Canada*

Mosleh, Ali, *University of MD at College Park*



AGENDA (continued)

SALON B Session 2b:

S10071: Upgrading the World's Busiest Airport for A380 Operations
Fredlund, Tim, *Pond & Company, Inc.*

S10074: Active Compound Plasma Lighting (CPLR) Rejection System
Jenkins, Barry K., *Brightex*
Lee Binns, *Brightex*
Sai, Tun Aye, *Brightex*

S10110: EIRT Team - Cable and Connector Project
Bogart, John, *Integro*

Airport Pavement Modeling and Simulation
Moderator: Qiang Wang, *SRA International, Inc.*

P10021: Airfield Pavement Response Due to Heavy-Aircraft Takeoff: Advanced Modeling Comparing Single-Tire and Dual-Tandem Gear
Hernandez, Jaime A., *University of Illinois at Urbana-Champaign*
Al-Qadi, Imad L., *University of Illinois at Urbana-Champaign*

P10049: Comparing Thicknesses of Airport Concrete Slab Design Using Damage Models of FAARFIELD and MEPDG
Bin, Cauê, *University of Sao Paulo*
Balbo, Jose, *University of Sao Paulo*

P10061: Simulation of NAPTF High Tire Pressure Tests with Advanced Finite Element Modeling
Wang, Hao, *Rutgers University*
Maoyun Li, *Rutgers University*
Garg, Navneet, *Federal Aviation Administration*

P10078: Evaluation of Benefits of Inclusion of Geosynthetic Products in Reinforcement of Flexible Airfield Pavements Using Three-Dimensional Finite Element Modeling
Tirado, Cesar, *The University of Texas at El Paso*
Carrasco, Cesar, *The University of Texas at El Paso*
Norwood, Gregory, *ERDC, US Army Corps of Engineers*
Nazarian, Soheil, *The University of Texas at El Paso*
Tingle, Jeb, *ERDC, US Army Corps of Engineers*

BAYVIEW BALLROOM
3:15 PM – 3:45 PM

Break with Exhibitors

3:45 PM – 5:30 PM

Concurrent Sessions

SALON A Session 3a:

Airport Rescue and Firefighting
Moderator: Keith Bagot, *Federal Aviation Administration*

S10016: Safely Secure Fasteners in Critical Applications
Pereyra, Julie, *Nord-Lock, Inc.*

S10094: Crash Simulation of Transport Aircraft for Predicting Fuel Release: Simulation of the Lockheed L-1649 Full-Scale Crash Test
Bocchieri, R.T., *Applied Research Associates, Inc. (ARA)*
MacNeill, R.M., *Applied Research Associates, Inc. (ARA)*

S10026: Towards an Aircraft-Crash-Fire-Suppression Simulation Framework: Progress in Aircraft Hydrocarbon Pool Fire Modeling
Menchini, Christopher P., *Applied Research Associates, Inc. (ARA)*
Hawk, John R., *United States Air Force*

S10114: New Large Aircraft – Impacts to Airport Planning and Emergency Operations
Kreckie, Jack, *ARFF Professional Services (APS)*

SALON B Session 3b:

Innovative Asphalt Mix Design Technologies
Moderator: Hao Yin, *Gemini Technologies*

P10017: Rutting Performance Tests for Airport Asphalt Mixture Design
Rushing, John F., *U.S. Army Engineer Research and Development Center*
Navneet Garg, *Federal Aviation Administration*

P10023: Warm-Mix Asphalt for Airfield Pavements
Mejias-Santiago, Mariely, *USACE-ERDC*
Doyle, Jesse D., *USACE-ERDC*
Rushing, John F., *USACE-ERDC*

P10042: Full-scale and Laboratory Fatigue Cracking Performance of Combined High-Recycle and Warm Mix Asphalt Pavements
Gibson, Nelson, *Federal Highway Administration*
Seo, Youngguk, *SES Group*
Li, Xinjun, *SES Group*
Andriescu, Adrian, *SES Group*
Youtcheff, Jack, *Federal Highway Administration*

AGENDA (continued)

P10056: Evaluation of Correlation Between Phenomenological Approach and Fracture Mechanics Approach for Asphalt Concrete Fatigue Performance

Li, Qiang, *SRA International, Inc.*
Garg, Navneet, *Federal Aviation Administration*
Haggag, Mohamed Monir, *SRA International, Inc*

P10062: Determination of a Fatigue Endurance Limit for Airfield Flexible Pavements Using CC1 Full-Scale Testing Data at the National Airport Pavement Test Facility

Redles, Thomas, *Rowan University*
Ali, Ayman, *Rowan University*
Mehta, Yusuf, *Rowan University*

EISENHOWER

Session 3c:

Concrete Material Testing & Characterization

Moderator: Charles Ishee, *Federal Aviation Administration*

P10025: Effectiveness of Standards for Mitigating Damage in Concrete Due to Materials Deficiencies

Poole, Toy, *CTLGroup*
Martin, Timothy J., *CTLGroup*

P10091: Effects of Long Term Moisture Storage on Concrete Test Samples

Stein, Jeffrey, *SRA International, Inc.*
Brill, David R., *Federal Aviation Administration*
Ishee, Charles, *Federal Aviation Administration*

P10092: Rapid Chemical Method for Determination of Aggregate Alkali Silica Reactivity

Mukhopadhyay, Anol K., *Texas A&M Transportation Institute*
Liu, Kai-Wei, *Texas A&M Transportation Institute*

P10097: Fatigue and Fracture Analysis of Airfield Rigid Pavement Utilizing NAPTF CC6 Data

Yeh, Lin, *Pennsylvania State University*
Stoffels, Shelley, *Pennsylvania State University*
Lopez de Murphy, Maria, *Pennsylvania State University*
Jeong, Yoseok, *Pennsylvania State University*
Kermani, Behnoud, *Pennsylvania State University*

PINES PAVILION

7:00 PM – 9:00 PM

Networking Reception

Sponsored by SRA International, Inc.

Wednesday, August 6, 2014

BAYVIEW BALLROOM

7:30 AM – 8:30 AM

Breakfast with Exhibitors

8:30 AM – 10:15 AM

Concurrent Sessions

SALON A

Session 4a:

Scanning and Detection Technologies
Moderator: Jeffrey Gagnon, *Federal Aviation Administration*

S10010: Use of 3D Scanning Technology for Automated Airfield Pavement Condition Inspection, Surface Geometry Measurement, and Foreign Object Debris Detection
Fox-Ivey, Richard, *Pavemetrics*
Laurent, John, *Pavemetrics*

S10030: Measurement of Pavement Surface Macrot texture on Airfields: Conventional Methods Versus Laser Texture Sensors
Carrasco Rodriguez, Pedro Pablo, *Aena Airports Laboratory*
Ramos Garcia, Jose Antonio, *Euroconsult*

S10039: Grooving Evaluation with 1mm 3D Laser Imaging
Wang, Kelvin C.P., *Oklahoma State University and WayLink Systems Co.*
Li, Lin, *Oklahoma State University and WayLink Systems Co.*

S10083: Mobile Lidar: The Benefits to Airports From an Operations and Safety Perspective
Lane, Troy, *Team Eagle Ltd*
Cudmore, Paul, *Team Eagle Ltd*
S10089: Remote Sensing Survey and Imagery Technologies for Expediting Airport Mapping and Asset Management Applications
Uddin, Waheed, *University of Mississippi*

SALON B

Session 4b:

Asphalt Mix-Related Performance Issues

Moderator: Navneet Garg, *Federal Aviation Administration*

P10005: Tire Induced Surface Cracking due to Extreme Wheel Loads
Mooren, Fer, *NACO Netherlands Airport Consultants B.V.*
Stet, Marc, *Via Aperta Pavement Consultants B.V.*
Hopman, Piet, *KOAC-NPC*



AGENDA (continued)

P10020: Statistical Analysis of In-Service Evolution of an Airport Asphalt Surfacing

White, Greg, *Fulton Hogan Australia*

P10027: Durability of High Stability Asphalt Mixture under Aircraft Loading

Kawamura, Naoya, *Port and Airport Research Institute*

Morikawa, Yoshiyuki, *Port and Airport Research Institute*

Murayama, Masato, *Toa Road Corporation*

Hirato, Toshiaki, *Toa Road Corporation*

Maekawa, Ryota, *Chuo Ununiversity*

P10032: Mechanical Responses and Viscoelastic Properties of Asphalt Mixtures Under Heavy Static and Dynamic Aircraft Loads

Guercio, Maria, *Villanova University*

McCarthy, Leslie, *Villanova University*

P10112: FAA's Airport Pavement Test Vehicle – Need, Capability, and Future Research

Garg, Navneet, *Federal Aviation Administration*

BAYVIEW BALLROOM

10:15 AM – 10:45 AM

Break with Exhibitors

10:45 AM – 12:30 PM

Concurrent Sessions

SALON B

Session 5a:

Aircraft Braking and Arresting Systems

Moderator: Nick Subbotin, *Federal Aviation Administration*

S10043: Improving Runway Braking Prediction through Innovative Modeling

Zhang, Cheng, *University of Waterloo*

Tighe, Susan, *University of Waterloo*

S10068: Multi-Disciplinary Research into the Effect of Contaminant on Aircraft Braking Performance

Breen, Joseph, *Federal Aviation Administration*

Slimko, Mark, *Zodiac Aerospace*

S10073: Study of Water Pools on Runways Considering the ICAO and Brazilian Civil Aviation Agency Recommendations for Large Aircraft

Uddin, Waheed, *University of Mississippi*

Merighi, João Virgílio, *Mackenzie University*

S10102: Review the Performances of EMAS Systems in Live Arrestments

Thomas, Trip, *Zodiac Aerospace*

S10113: Development of Airport Groove Identification Program ProGroove

Wang, Qiang, *SRA International, Inc.*

SALON B

Session 5b:

Airport Pavement Full-Scale Tests

Moderator: Raymond Rollings, *Rollings Consulting LLC*

P10007: Full-scale Test of Thermally-Induced Reflective Cracking: Lessons Learned from 5-year Research at FAA NAPTF

Yin, Hao, *Gemini Technologies*

Barbagallo, Donald, *Federal Aviation Administration (retired)*

P10022: Assessment of Field Compaction of Subbase Material during Construction and Trafficking of Heavy Aircraft using the Superpave Gyrotory Compactor

Cary, Carlos, *Rowan University*

Kumpel, Craig, *Rowan University*

Bagriacik, Adam, *Rowan University*

Cohen, Robert, *Rowan University*

Clark, Jerrett, *Rowan University*

Sukumaran, Beena, *Rowan University*

Lecorvaisier, Marie, *Université de*

Lorraine

Daouadji, A., *Université de Lorraine*

P10050: Construction Cycle 6 (CC6) Revisited: Fatigue Analysis and Design Implications

McQueen, Roy D., *Roy D. McQueen*

Engineering Consultants, PLC

Hayhoe, Gordon F., *Consultant*

P10052: Relative Performance of CC6 Concrete Pavement Test Items at the FAA National Airport Pavement Test Facility

Brill, David R., *Federal Aviation*

Administration

Kawa, Izydor, *SRA International, Inc.*

P10095: Experimental Study of Asphalt Concrete Strain Distribution in Flexible Pavements at the National Airport Pavement Test Facility

Doré, Guy, *Laval University*

Garg, Navneet, *Federal Aviation*

Administration

Bilodeau, Jean-Pascal, *Laval University*

BAYVIEW BALLROOM

12:30 PM – 1:30 PM

Lunch with Exhibitors



AGENDA (continued)

1:30 PM – 3:15 PM

Concurrent Sessions

SALON A

Session 6a:

Sustainable Materials and Systems
Moderator: Albert Larkin, *Federal Aviation Administration*

P10065: Greenhouse Gas Emission Analysis for Heated Pavement System

Shen, Weibin, *Iowa State University*
Gopalakrishnan, Kasthurirangan, *Iowa State University*
Kim, Sunghwan, *Iowa State University*
Ceylan, Halil, *Iowa State University*

P10066: Cost Comparison of Alternative Airfield Snow Removal Methodologies

Anand, Pritha, *Iowa State University*
Ceylan, Halil, *Iowa State University*
Gkritza, Konstantina, *Purdue University*
Taylor, Peter C., *Iowa State University*
Pyrialakou, Vasiliki Dimitra, *Purdue University*
Kim, Sunghwan, *Iowa State University*
Gopalakrishnan, Kasthurirangan, *Iowa State University*

P10067: Smart Airport Pavement Instrumentation and Health Monitoring

Yang, Shuo, *Iowa State University*
Ceylan, Halil, *Iowa State University*
Gopalakrishnan, Kasthurirangan, *Iowa State University*
Kim, Sunghwan, *Iowa State University*

P10093: Toward the Use of Phase Change Materials (PCM) in Concrete Pavements: Evaluation of Thermal Properties of PCM

Liston, Leah C., *Purdue University*
Krafcik, Matt, *Purdue University*
Farnam, Yaghoob, *Purdue University*
Tao, Bernard, *Purdue University*
Erk, Kendra, *Purdue University*
Weiss, Jason, *Purdue University*

SALON B

Session 6b:

Field Testing and Instrumentation
Moderator: Navneet Garg, *Federal Aviation Administration*

P10028: The Pavement Condition Monitoring System at Shanghai Pudong International Airport

Zhao, Hongduo, *Tongji University*
Wang, Liqiang, *Shanghai Airport Authority*
Yuan, Jie, *Tongji University*

P10057: Curling's Impact on Structural Responses of Jointed Concrete Pavements

Ye, Dan, *Fugro Roadware, Inc.*
James, Mainey, *Fugro Roadware, Inc.*
Daleiden, Jerry, *Fugro Roadware, Inc.*

P10069: Procurement Management for Sensor Installation Under Runways

Cook, Karissa, *University of Hawaii*
Singh, Amarjit, *University of Hawaii*

P10070: Detecting Emerging Sinkholes with FWD testing

Lenngren, Carl A., *Lund University*

P10075: Field Evaluation of Alternative Isolation Joints at O'Hare International Airport

Henschen, Jacob D., *University of Illinois at Urbana-Champaign*
Amirkhanian, Armen N., *University of Illinois at Urbana-Champaign*
Roesler, Jeffery R., *University of Illinois at Urbana-Champaign*
Lange, David A., *University of Illinois at Urbana-Champaign*

BAYVIEW BALLROOM

3:15 PM – 3:45 PM

Break with Exhibitors

Sponsored by Applied Research Associates, Inc. (ARA)

3:45 PM – 5:30 PM

Concurrent Sessions

SALON A

Session 7a:

Case Studies in Airport Pavement Construction

Moderator: Roy D. McQueen, *Roy D. McQueen Engineering Consultants, PLC*

P10018: Airfield Pavements on Settlement-Prone Soils

Rollings, Raymond S., *Rollings Consulting LLC*

P10034: Rehabilitation of Water-Damaged Runway Composite Pavements

Hama, Seiya, *Narita International Airport Corporation*
Hachiya, Yoshitaka, *SCOPE*
Nishikawa, Takaharu, *SCOPE*

P10036: Alkali-Silica Reaction in Concrete Pavement at Gimpo International Airport - A Maintenance Case Study using HMA

Kwak, Pyung Jin, *Korea Airports Corporation*
Kim, Tae Hun, *Korea Airports Corporation*
Lee, Je Il, *Korea Airports Corporation*
Jeong, Woo Yeong, *Korea Airports Corporation*

AGENDA (continued)

P10072: Accelerated Airfield Pavement Widening - Making Way for the A380 at Hartsfield-Jackson Atlanta International Airport

Fredlund, Tim, *Pond & Company, Inc.*

P10087: Rubblization of Existing Airfield Pavements at King Abdulaziz International Airport, Jeddah, Saudi Arabia

Butt, Abbas, *Engineering & Research, International, Inc.*

Zuhairy, Adnan, *General Authority of Civil Aviation, Saudi Arabia*

Khalifa, Ali, *General Authority of Civil Aviation, Saudi Arabia*

SALON B

Session 7b:

Airport Pavement Roughness

Moderator: Michael Roginski, *Boeing Co.*

P10041: One-mm 3D Laser Imaging Survey for Comprehensive Runway Evaluation

Li, Joshua Q., *Oklahoma State University and WayLink Systems Co.*

Wang, Kelvin C.P., *Oklahoma State University and WayLink Systems Co.*

Yang, Guangwei, *Oklahoma State University and WayLink Systems Co.*

Li, Lin, *Oklahoma State University and WayLink Systems Co.*

P10048: Standardized Acceleration Processing for Pavement Roughness Evaluation

Hayhoe, Gordon, F., *Private Consultant*

P10051: Introducing an Alternative Method of Assessing Airport Pavement Roughness Using Pilot Evaluations

Larkin, Albert, *Federal Aviation Administration*

Song, Injun, *SRA International, Inc.*

Hudspeth, Skip, *Cherokee CRC*

Stapleton, David, *Cherokee CRC*

P10054: Profile Data Comparisons for Airfield Runway Pavements

Song, Injun, *SRA International, Inc.*

Larkin, Albert, *Federal Aviation Administration*

Augustyn, Stephen, *SRA International, Inc.*

Thursday, August 7, 2014

BAYVIEW BALLROOM

7:30 AM – 8:30 AM

Breakfast with Exhibitors

8:30 AM – 10:15 AM

Concurrent Sessions

SALON A

Session 8a:

Airport Lighting Systems

Moderator: Holly Cyrus, *Federal Aviation Administration*

S10008: Pavement Edge Light Safety System, PELSS; Visual Enhancement to Airfield Lighting

Stauffer, Scott, *CoFounder,*

Luminaerospace

Hyland, Warren, *Founder,*

Luminaerospace

S10079: Improving Airfield Lighting Power Infrastructure for LED Lighting Components

Nadel, Jess, *Consultant Services International*

S10104: Increasing the Accuracy of LED Aviation Signal Lights Color Identification by Pilots with Color-Deficient Vision

Bullough, John D., *Lighting Research Center at RPI*

S10107: Understanding Flicker in Airfield Lighting Applications

Bullough, John D., *Lighting Research Center at RPI*

S10108: Can Linear Light Sources Be of Benefit to Pilots?

Skinner, Nicholas P., *Lighting Research Center at RPI*

EISENHOWER

Session 8b:

Airport Pavement Maintenance & Management

Moderator: Albert Larkin, *Federal Aviation Administration*

P10033: Airport Surface Surveillance Data Improves Pavement Management Efficiency and Cost Effectiveness

Levy, Benjamin, *Saab Sensis Corporation*
Carpenter, Michael, *Saab Sensis Corporation*

DeHart, Steven, *Saab Sensis Corporation*

Nolan, Timothy, *Saab Sensis Corporation*

Boudreau, Richard, *Boudreau*

Engineering

Watkins, Quintin, *Michael Baker*

Engineering



AGENDA (continued)

P10077: Pavement Performance, FAA PAVEAIR and Runway Life Extension
Butt, Abbas, *Engineering and Research International, Inc. (ERI)*
Pemmaraju Venkata, Hari Priya, *Engineering and Research International, Inc. (ERI)*

P10081: Relationship Between Joint Spacing and Distresses Present
Parsons, Timothy, *Applied Research Associates, Inc. (ARA)*
Pullen, B. Aaron, *Applied Research Associates, Inc. (ARA)*

P10082: Implementation of Deflection Bowl Measurements for Structural Evaluations at Network Level of Airport Pavement Management System
Pigozzi, Franco, *University of Cagliari*
Coni, Mauro, *University of Cagliari*
Portas, Silvia, *University of Cagliari*
Maltinti, Francesca, *University of Cagliari*

P10040: Imaging Techniques and Precision-Bias of Automated Cracking Detection for Airfield PCI
Wang, Kelvin C.P., *Oklahoma State University and WayLink Systems Co.*
Chen, Cheng, *Oklahoma State University and WayLink Systems Co.*
Zhang, Allen, *Oklahoma State University and WayLink Systems Co.*
Ji, Ran, *Oklahoma State University and WayLink Systems Co.*

P10053: Load Pulse Width and Deflection Analysis using FWD and MDD Data at National Airport Pavement Test Facility
Song, Injun, *SRA International, Inc.*
Larkin, Albert, *Federal Aviation Administration*
Gagnon, Jeffrey, *Federal Aviation Administration*

P10058: Nondestructive Pavement Evaluation of Stewart International Airport's Runway 9-27
Lombardi, Thomas, *Advanced Infrastructure Design, Inc.*
Frabizzio, Michael, *Advanced Infrastructure Design, Inc.*
Tabrizi, Kaz, *Advanced Infrastructure Design, Inc.*

P10063: Field Evaluation of NDT Devices for Delamination Detection of HMA Airport Pavements
Celaya, Manuel, *Advanced Infrastructure Design, Inc. (AID)*
Nazarian, Soheil, *University of Texas at El Paso (UTEP)*

P10064: Demonstration of a New, Multi-Function, Nondestructive Pavement Testing Device
Lee, Jung-Su, *The University of Texas at Austin*
Stokoe, Kenneth H. II, *The University of Texas at Austin*
Scullion, Thomas, *Texas A&M Transportation Institute*
Leidy, Joe, *Texas Department of Transportation*
Oshinski, Edward, *Texas Department of Transportation*

12:30 PM Conference Adjourns
Box Lunch Available (Hotel Lobby)

1:00 PM – 3:00 PM **Tour to National Airport Pavement Test Facility and ARFF Test Facility (Buses depart from hotel lobby promptly at 1:00 p.m.)**

BAYVIEW BALLROOM
10:15 AM – 10:45 AM

Break with Exhibitors

10:45 AM – 12:30 PM

Concurrent Sessions

SALON A
Session 9a:

Airport LED Lighting Forum
Moderator: Donald Gallagher, *Federal Aviation Administration*
S10101: Can LEDs Be Seen in Fog As Well as Incandescent Lamps?
Radetsky, Leora, *Lighting Research Center at RPI*
S10103: How to Match LED and Incandescent Aviation Signal Light Brightness
Bullough, John D., *Lighting Research Center at RPI*
S10105: Are Current Photometric Tests for Lights Valid for LEDs?
Freyssinier, Jean Paul, *Lighting Research Center at RPI*
S10106: How is the Operational Failure of LED Fixtures Identified?
Narendran, Nadarajah, *Lighting Research Center at RPI*
S10109: Can the Intensity of LED-Based Runway Guard Lights Be Reduced?
Radetsky, Leora, *Lighting Research Center at RPI*

EISENHOWER
Session 9b:

Nondestructive Testing Methods and Pavement Imaging
Moderator: Jim Hall, *Applied Research Associates, Inc. (ARA)*

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