

# SAE 2012 Aerospace and Defense Ground Support Equipment Conference

## Technical Session Schedule

As of 03/13/2012 07:41 pm

### Wednesday, March 7

#### Opening Remarks

**Session Code:** ADG1

**Room N227/N228/N229/N230**

**Session Time:** 8:30 a.m.

John Goglia will welcome everyone to the inaugural SAE 2012 Aerospace and Defense Ground Support Equipment Conference.

**Presenters -** John J. Goglia, JDA Aviation Technology Solutions

### Wednesday, March 7

#### Opening Plenary Session: Environmental Sustainability in Airports

**Session Code:** ADG2

**Room N227/N228/N229/N230**

**Session Time:** 9:00 a.m.

**Moderators -** John J. Goglia, JDA Aviation Technology Solutions

<b>Time</b>	<b>Paper No.</b>	<b>Title</b>
9:00 a.m.	ORAL ONLY	<b>Building a Sustainable Airport Operations</b> Steven Burt, EQ2
9:20 a.m.	ORAL ONLY	<b>Next Generation Lithium GSE - Technical, Safety and Economic Rationale</b> Brent Perry, Corvus Energy, Ltd.
9:40 a.m.	ORAL ONLY	<b>Sustainable Airport Technology at Work and Lessons Learned</b> Benito De Leon, Federal Aviation Administration

### Wednesday, March 7

#### Plenary Session: Choosing Containers for Environmental Sustainability Panel

**Session Code:** ADG7

**Room N227/N228/N229/N230**

**Session Time:** 10:30 a.m.

**Moderators -** Norie Frank, C A Spalding Co.

**Panelists -** Anthony Baselice, Container Research Corp.; Chip Crotty, Cocoon Inc.; Chris Leiser, Container Research Corp.; Simon Trinidad, Gichner Systems Group Inc.;

### Wednesday, March 7

#### Plenary Session: Joint Panel on Aviation Support Equipment

**Session Code:** ADG3

**Room N227/N228/N229/N230**

**Session Time:** 1:00 p.m.

Select member of the US Department of Defense Joint Panel on Aviation Support Equipment will be presenting their requirements and programs for military ground support equipment.

**Moderators -** Dale A. Miller, J&B Aviation Services

**Panelists -** *Martin Breton, Royal Canadian Air Force; Alivio Mangieri, US Army; John F. Martenak, Naval Air Engineering Center; Gregory McDermott, US Coast Guard; Kenneth Sands, Naval Air Systems Command;*

## Wednesday, March 7

### Plenary Session: Applications for Fuel Cells in GSE

**Session Code:** ADG5

**Room N227/N228/N229/N230**

**Session Time:** 3:30 p.m.

Viewpoints from all aspects of the industry - from fuel cell manufacturers, system integrators, to users - on the applications of fuel cells in aviation ground support equipment.

**Moderators -** *Greg Moreland, SRA International Inc.*

<b>Time</b>	<b>Paper No.</b>	<b>Title</b>
3:30 p.m.	ORAL ONLY	<b>Airport Ground Service Equipment, Aircraft and related Applications with Hydrogenics Fuel Cells</b> <i>Mark Kammerer, Hydrogenics</i>
3:50 p.m.	ORAL ONLY	<b>Commercially Viable Fuel Cells for Material Handling Applications</b> <i>Erik Hansen, Plug Power Inc.</i>
4:10 p.m.	ORAL ONLY	<b>Fuel Cell Powered Heavy Duty GSE - Is it Feasible?</b> <i>Alison Setton, Setton Consulting Group</i>
4:30 p.m.	ORAL ONLY	<b>Fuel Cell GSE and its Future in the Airport Environment</b> <i>Joseph S. Breit, Boeing</i>
4:50 p.m.	ORAL ONLY	<b>Emissions Characteristics of On-Site Hydrogen Generation from Steam Methane Reforming</b> <i>Gus Block, Nuvera Fuel Cells Inc.</i>
	ORAL ONLY	<b>Applications for Fuel Cells in Ground Support Equipment</b> <i>Greg Moreland, SRA International Inc.</i>

## Thursday, March 8

### Plenary Session: Deicing - Environment Regulations and Impacts

**Session Code:** ADG6

**Room N227/N228**

**Session Time:** 8:30 a.m.

Panelists, ranging from airport operators, and service providers to fluid manufacturers will discuss the upcoming EPA regulations and their impact on airport operations.

**Moderators -** *Larry Alfs, Swissport*

<b>Time</b>	<b>Paper No.</b>	<b>Title</b>
8:30 a.m.	ORAL ONLY	<b>EPA Regulations - Impact on Deicing Operations and Collection Requirements</b> <i>Larry Alfs, Swissport</i>
8:50 a.m.	ORAL ONLY	<b>Deicing Fluid Reduction &amp; Recovery</b> <i>Jeffrey C. Walsh, Global Ground Support LLC</i>
9:10 a.m.	ORAL ONLY	<b>Susterra Type I BIO Propanediol</b> <i>David Schueler, Kilfrost Inc.</i>

9:30 a.m. ORAL ONLY **Overview of Deicing Fluid Treatment**  
Mark Olney Liner, Liner Co.

### Thursday, March 8

#### Airport Operations Equipment

Session Code: ADG111

Room N227/N228

Session Time: 10:30 a.m.

The session features papers on such topics as treatment of deicing fluids, utilization of buildings, and aircraft weight and balance verification.

Organizers - James Sherman, SAE International

Time	Paper No.	Title
10:30 a.m.	ORAL ONLY	<b>Onsite Treatment of Airport Deicing Fluid - Buffalo Airport Case Study</b> Mark Olney Liner, NWC
11:00 a.m.	2012-01-1501	<b>The Latest in Airport Ground Support Equipment Maintenance Facilities - The Building and Grounds as a GSE Maintenance Tool</b> G. Patrick Brown, Burns & McDonnell Engineering
11:30 a.m.	2012-01-1500 — ORAL ONLY	<b>Automatic Aircraft Weight &amp; Balance Verification System</b> Rudy Baisch, Emery Winslow Scale Co.
12:00 p.m.	2012-01-1513 — ORAL ONLY	<b>Coanda Based Hot Air Vehicle Mounted Deicing System</b> Michele Trancossi, Universita' di Modena e Reggio Emilia

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### Thursday, March 8

#### Maintenance Tools

Session Code: ADG109

Room N227/N228

Session Time: 1:30 p.m.

This session provides insight into new technology for maintenance, and includes topics on troubleshooting, fuel leaks, and fiber optic inspection.

Organizers - James Sherman, SAE International

Time	Paper No.	Title
1:00 p.m.	2012-01-1506 — ORAL ONLY	<b>Fiber Optic Readiness, Examination and Diagnostic Inspection</b> Michael John Moore, Nikhil Beke, Maksim Bobrov, Myra Torres, Impact Technologies LLC
1:30 p.m.	ORAL ONLY	<b>GSE Troubleshooting 2.0 - Global Experience</b> Phil D'Eon, Casebank Technologies Inc.
2:00 p.m.	ORAL ONLY	<b>Intermittent Fault Detection and Isolation System (IFDIS)</b> Ken Anderson, Universal Synaptics Corp.

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### Thursday, March 8

## Plenary Session: The Case for Electric Vehicles Panel

**Session Code:** ADG4

**Room N229/N230**

**Session Time:** 8:30 a.m.

Leading manufacturers of electric GSE will be providing insights on the benefits of electrified drive systems.

**Moderators -** James Sherman, SAE International

**Panelists -** Brad Compton, Tug Technologies Corporation; Ryan Gibson, AeroVironment Inc.; Steve Newell, Honeywell Engines; Brent Perry, Corvus Energy, Ltd.;

### Thursday, March 8

## Environmental Factors (Part 1 of 2)

**Session Code:** ADG107

**Room N229/N230**

**Session Time:** 10:30 a.m.

This session is dedicated to topics related to energy efficiency and emissions reductions.

**Organizers -** Frank Bokulich, James Sherman, SAE International

<b>Time</b>	<b>Paper No.</b>	<b>Title</b>
10:30 a.m.	2012-01-1507	<b>A Novel Concept of Container House with Zero Energetic Consumption</b> Antonio Dumas, Michele Trancossi, Mauro Madonia, Maurizio Bonnici, Universita' di Modena e Reggio Emilia; Piergiorgio Scaccaglia, SP Parma di Scaccaglia Piergiorgio; Mario Guareschi, ABertozzi snc
12:00 p.m.	2012-01-1509	<b>Carbon Remediation for the Airline Industry via ATF Drop-in Substitution: Strategic and Operational Perspective</b> Venugopal Varadarajan, Naftva Integrals; Maitrayee Pathak, Bangalore University -Dept. of Law; Ashish Gupta, BMS College of Engineering
11:30 p.m.	2012-01-1505 <b>ORAL ONLY</b>	<b>Rapid Aircraft Fuel Leak Repair Technology</b> Michael Evans, Aerowing Inc.

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### Thursday, March 8

## Environmental Factors (Part 2 of 2)

**Session Code:** ADG107

**Room N229/N230**

**Session Time:** 1:30 p.m.

This session is dedicated to topics related to energy efficiency and emissions reductions.

**Organizers -** James Sherman, SAE International

**Chairpersons -** Mark Resendes, J&B Aviation Services

<b>Time</b>	<b>Paper No.</b>	<b>Title</b>
2:30 a.m.	2012-01-1503	<b>Calculation of Temperature and Energy Losses in PCA Ducting</b> Steven Maughan, JBT Aerotech; Nathan Maughan, Kennecott Utah Copper

<b>1:30 p.m.</b>	<b>2012-01-1512</b>	<b>Fire-safe Airship System Design</b> <i>Michele Trancossi, Antonio Dumas, Mauro Madonia, Universita' di Modena e Reggio Emilia; Jose Pascoa, Universidade da Beira Interior; Dean Vucinic, Vrije Universiteit Brussel</i>
<b>2:00 p.m.</b>	<b>ORAL ONLY</b>	<b>Protective Covers for Aircraft, Weapons, Ordnance and Ground Support Equipment</b> <i>Chip Crotty, Cocoon Inc.</i>
	<b>2012-01-1514</b>	<b>Novel Engine Concepts for Multi Fuel Military Vehicles (Written Only -- No Oral Presentation)</b> <i>Alberto Boretti, University of Ballarat</i>

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