CAAIFI 2014
General Meeting
& Expo

Opening Remarks

Steve Csonka,
Executive Director, CAAFI

Michael Huerta
Administrator, FAA

Sharon Pinkerton
Senior Vice President, Legislative and Regulatory Policy, A4A

Michael L. Knotek
Deputy Under Secretary, Office of the U/S for Science and Energy, DOE
Opening Remarks

Commercial Aviation Alternative Fuels Initiative

Biennial General Meeting, 2014

Takeoff Toward Commercialization

Washington Marriott, Washington, DC
Housekeeping

* Team:
  * Marriott
  * CAAFI
  * Kallman Worldwide
Team:
- Marriott
- CAAFI
- Kallman Worldwide
Housekeeping

* Team: 
  * Marriott 
  * CAAFI 
  * Kallman Worldwide
## Event App
http://eventmobi.com/caafi/

### Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:00 - 08:10</td>
<td>Registration, Breakfast, Networking</td>
<td>8:10 - 09:30</td>
<td>Opening Remarks VIP Address(es)</td>
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<tr>
<td>8:10 - 09:00</td>
<td>Opening Remarks VIP Address(es)</td>
<td>8:15 - 09:30</td>
<td>CAAFI Work Teams, Plenary Summary Session</td>
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<tr>
<td>9:00 - 10:30</td>
<td>Government Partners' Activities Update</td>
<td>10:00 - 11:00</td>
<td>Public-Private Partnership Efforts</td>
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<td>10:30 - 11:00</td>
<td>Break</td>
<td>11:00 - 12:25</td>
<td>Local Initiatives</td>
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<tr>
<td>11:00 - 12:25</td>
<td>Finance Panel</td>
<td>12:30 - 1:30</td>
<td>Lunch &amp; Keynote #1 Brad Tilden</td>
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<tr>
<td>12:30 - 1:30</td>
<td>Lunch &amp; Keynote #1 Brad Tilden</td>
<td>12:30 - 1:30</td>
<td>Lunch &amp; Keynote #2 USDA Sec. Vilsack</td>
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<tr>
<td>1:30 - 2:00</td>
<td>Biggest Challenges</td>
<td>1:30 - 2:30</td>
<td>Airline &amp; Partners Panel 1</td>
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<tr>
<td>2:00 - 3:10</td>
<td>Work Team’s Breakout I</td>
<td>3:00 - 4:00</td>
<td>Airline &amp; Partners Panel 2</td>
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<tr>
<td>3:10 - 3:30</td>
<td>Break</td>
<td>2:30 - 3:00</td>
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<tr>
<td>3:30 - 5:30</td>
<td>Work Team’s Breakout II</td>
<td>4:00 - 5:30</td>
<td>International Initiatives</td>
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<tr>
<td>5:30 - 6:45</td>
<td>Cocktails</td>
<td>5:30</td>
<td>Closing Remarks</td>
</tr>
<tr>
<td>7:00p -</td>
<td>No Host Dinner Teddy &amp; The Bully Bar</td>
<td></td>
<td>State of the Union</td>
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### Work Team's Breakouts

1. **Breakout I**
   - 3:00 - 4:00
2. **Breakout II**
   - 4:00 - 5:30

### Additional Sessions

- **International Initiatives**: 4:00 - 5:30
- **Closing Remarks**: 5:30
- **No Host Dinner**: Teddy & The Bully Bar State of the Union

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**Logistics**

28 January 2014
Who we are – CAAFI members & invited guests
- From across the supply chain
- From around the world
- Many first-time attendees

Why we’re here
- Celebrate
- Contemplate
- Collaborate
- Instigate
- Invigorate
An Aviation Industry Coalition Established to Facilitate and Promote the Introduction of Alternative Aviation Fuel

Goal is development of non-petroleum jet fuel production with:

* Equivalent safety & performance (drop-in)
* Comparable cost
* Environmental improvement
* Security of energy supply for aviation

Enables its diverse stakeholders to build relationships, share and collect data, identify resources, and direct research, development and deployment of alternative jet fuels

Synthetic kerosene, primarily from renewable sources
Sustainable Alternative Jet Fuel (SAJF)
Why we care!

Aviation commitments
* **Improving sustainability**

Industry alignment on need, as SAJF can bring:
* Carbon relief
* Supply surety, Price stability
* Energy security
* Lower LAQ emissions
* Improved energy mass density
* Minimal infrastructure impact
* Economic opportunity

No near-term viable kerosene alternatives, and ... 
SAJF works! Challenges, but Lots of Options!

28 January 2014
SAJF is key for meeting industry’s commitments

We know how to make it - broad range of inputs & processes

Modest amounts of SAJF coming online

Working challenges: price, supply-chain, investment

The industry plans to continue their efforts

Potential for acceleration a function of engagement
Opening Remarks

* Michael Huerta
  FAA Administrator

* Sharon Pinkerton
  A4A SVP Legislative and Regulatory Policy

* Dr. Michael Knotek
  Deputy U/S, Office of the U/S for Science and Energy
Where we’re working
CAAFI Facilitation – broad and deep

Feedstock Development
Pathway Development
Sustainability
Price Point
Risk Reduction
Institutional Alignment
Analysis / Tools
Regional Engagement
Int’l Engagement

Research & Development
Certification & Qualification

Environmental

Business
In last 12 months

Feedstock Development
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Farm-to-Fly 2.0
New NIFA CAP: BANR Project in CO on Standing Dead Timber
Efforts continue with other NIFA AFRI & ARS Biomass Centers

Alaska Airlines and Hawaii BioEnergy pursuit agreement
In last 12 months

ASTM Task Forces Progressing, 3 Ballots in this quarter

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In last 12 months

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CAAFI complements FRL Tools: Environmental Sustainability O/view & Environmental Progression Tool
NASA initiates in flight emissions testing program
CAAFI pursuing GHG methodology harmonization
EPA Qualifies Alternative Jet Fuel Pathways under the RFS Program
# In last 12 months

<table>
<thead>
<tr>
<th>Feedstock Development</th>
<th>UAL/AltAir announce Price Competitive DPA</th>
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<tbody>
<tr>
<td>Pathway Development</td>
<td>DOE announces intent to focus on Drop-Ins &amp; C.o.P.</td>
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<tr>
<td>Sustainability</td>
<td>UAL issues another RFP</td>
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<tr>
<td><strong>Price Point</strong></td>
<td>KLM Executes Transatlantic Flight Demos</td>
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<td>Risk Reduction</td>
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<tr>
<td>Institutional Alignment</td>
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<td>Analysis / Tools</td>
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<tr>
<td>Regional Engagement</td>
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<tr>
<td>Int’l Engagement</td>
<td>SkyNRG continues making progress</td>
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In last 12 months

Feedstock Development
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USDA/DOE/DOE DPA
Phase 1 Awards

DOE Innovative Pilot Awards:
4 Entities
Initiatives:

- Commercial, Military, BizAv, DLA moving toward JetA
- DPA, F2F2, Farm-to-Fleet
- BRDB, IAWG, NAJFS

Coordination Programs:

- BRDB, IAWG, NAJFS

Joint Focus:

- Commercial, Military, BizAv, DLA moving toward JetA

In last 12 months:

- Initiatives:
  - DPA, F2F2, Farm-to-Fleet
  - Coordination Programs:
    - BRDB, IAWG, NAJFS

Analysis / Tools

- Institutional Alignment
- Regional Engagement
- Int’l Engagement
- Risk Reduction
- Price Point
- Sustainability
- Pathway Development
- Feedstock Development
- In last 12 months

28 January 2014

In last 12 months

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In last 12 months

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CAAFI D4054 Users Guide
CAAFI Guidelines on Airline Engagement
Stand-Up of new FAA COE
Several entities looking at siting and transportation optimization tools
In last 12 months

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Regional Assessments:
MASBI Concluded, ABWG Continues in NW
New evaluation efforts in CT and VT
F2F2 to target Local Initiatives in every state
In last 12 months

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New bilateral with Spain joins existing efforts in Brazil, Australia, & Germany

Homegrown activities expanding, CAAFI working Global Exchange concept

Additional IATA Focal, CAEP WG

Airframers continue supporting airline goals (e.g. SAFUG)

ICAO acknowledges need for Global Approach with Alt Fuels in Basket of Measures

28 January 2014
That is real progress!

Now, let’s hear more from our Government Partners

28 January 2014