Sustainably Transforming Transportation by Converging Technologies
7th Annual CAFE Electric Aircraft Symposium
April 26, 27, 2013, Flamingo Resort, Santa Rosa, California

This special program convenes authoritative leaders in the key technologies that will enable electric flight to sustainably transform transportation—energy, aeronautics, noise reduction, propulsion, autonomous flight, safety, reliability, cost and environmental friendliness.

PRELIMINARY PROGRAM – DAY ONE, FRIDAY, APRIL 26

07:15 Full Breakfast (included with registration), Badge and Program pickup
08:00 Opening Remarks, Dr. Brien Seeley, President, CAFE Foundation
08:05 Alan Soule, CAFE Foundation: The Current State of Charging for Electric Vehicles
09:05 Karl Kaeser, Kasaero GmbHs: ePropeller Safety Device and the Application in the Sunseeker Duo
09:35 Dr. Gecheng Zha, University of Miami: Ultra-high Lift Without Flaps
10:05 Coffee Break to 10:20
10:20 Adam Bry, MIT: Fully Autonomous, GPS-deprived Electric Aircraft
10:50 Dennis Bushnell, Chief Scientist, NASA: Frontiers of “Exotic” Energetics, including Storage
11:35 Steffen Geinitz, Fraunhofer ICT, Low-Cost, Mass Production of Carbon Fiber Aircraft
12:05 Luncheon in the Ballroom, (included with registration)
13:05 Thomas Cook and Christopher Cook, LithiumStart*: Battery Management Systems for Lithium Battery Packs
13:35 Dr. Winfried Wilcke, IBM Research Lab: Advancing the Lithium-Air Battery for EVs
14:05 Greg Cole^^, Windward Performance, High-Tech Electric Sailplanes: Maximum Fun
14:35 Coffee Break
14:50 Maher El-Kady, Kaner Lab, UCLA: The Promise of Laser Scribed Graphene Super-Capacitors
15:20 Dr. Loren Kaake, UCSB: Next Generation Thin Film Photovoltaic Devices
15:50 Dr. Eric Darcy, NASA-JSC: Mitigating Catastrophic Failures with Li-ion Batteries
16:20 Len Schumann, Ingmar Geiss, Rudolf Voit-Nitschmann, Electric Aircraft research – Two years of flying e-Genius,
17:00 Adjourn to no-host wine and cocktails in the Ballroom at 17:30 PM

19:00- Theme Dinners: Where all registered attendees may interact, visit with esteemed faculty and hear expert topical presentations.
Theme 1) Motors/Controllers/Propulsion/Quietude
Theme 2) Aeronautical Design and Aviation, plus Autonomous, Markets & Licensing.
Theme 3) Energy: Expert Panel Discussion
7th Annual CAFE Electric Aircraft Symposium
April 26, 27, 2013, Flamingo Resort, Santa Rosa, California

PRELIMINARY PROGRAM – DAY TWO, SATURDAY, APRIL 27

07:15  Full Breakfast (included with registration) Badge and Program pickup
08:00  Announcements, Dr. Larry Ford, Vice President, CAFE Foundation
08:05  Dean Sigler, Editor, CAFE Technology Blog: Sustainable, Neighborly Airports
08:35  David Calley, PlanetRider, eMotor Cost, Power, Reliability and Maintenance
09:05  Rick Stenberg, Coval CEO, Molecular Nano-Coatings
09:35  Steve Rizzi*, NASA Langley, Auralization of Quiet Aircraft: How They Will Sound
10:05  Coffee Break
10:20  Brien Seeley, CAFE Foundation: The Ultra-Quiet, ESTOL Electric Autonomous Sky Taxi
10:50  Tine Tomazic, Pipistrel^^: The 403.5 pMPG Pipistrel Taurus G4, Panthera and Surprises
11:30  Dan Raymer, Author of Aircraft Design, ESTOL with Morphing for High Cruise Speed
12:05  Randall Fishman*, Electraflyer.com, Electric Ultralight Airplanes, the path to approval for all electric aircraft? and ElectraFlyer-ULS
12:35  Ilan Kroo, Zee Aero, To be announced. . .
13:05  Adjourn to no-host lunch at leisure or other Sonoma County events listed below; or

*Invited
#Weather permitting
^^PADA Trophy Recipient

REGISTRATION

The Flamingo Resort in Santa Rosa has reserved a discounted block of rooms for those who register early:

Register online for EAS 2013

For registry questions please email Steve Williams at: eas2013reg@cafefoundation.org
THE PASSPORT TO DRY CREEK VALLEY on the afternoons of 4/27 and 4/28 is a chance to experience the essence of the Sonoma Wine Country. Food, wine, music, tours and gorgeous scenery.

SANTA ROSA’S BEAUTIFUL CHARLES M. SCHULZ MUSEUM is open Sat.-Sunday from 10 AM-5 PM. Explore the delightful world of the famous PEANUTS cartoonist and visit Charlie Brown, Snoopy and the gang.

THE ANNUAL BODEGA BAY FISHERMAN’S FESTIVAL, April 27, noon to 5 PM and April 28, 10 AM to 5 PM. Craft booths, live music, good food, entertainment and more. A favorite attraction is the wine tasting booth featuring more than 25 Sonoma County wines. Food booths have something for every palate from barbequed oysters, local fish 'n chips, to veggie burgers, clam chowder and sandwiches. Live music and entertainers perform on the main stage all day Saturday and Sunday. Artisans and vendors from all over California and beyond offer a wide selection of arts and crafts.

THEME DINNER DETAILS
Programs will begin ~ 7:45 PM

Theme 1 - Motors/Controllers/Propulsion/quietude
- David Calley, Low RPM Motors for Ultra-Quiet Propellers 20 min
- Dr. Peter Harrop, Electric Aircraft in Europe 2013-2023 15 min
- CAFE Team Discussion, Solutions for Wheelies on Take Off 30 min

Theme 2 - Aeronautical Design and Aviation, plus UAVs, Markets & Licensing
- Bruno Mombrinie, eFlight Safety: Chutes, Airbags, Ejections 20 min
- Brian Carpenter, The EMG-5 and beyond. A quest for the perfect ultralight 20 min
- Dan Raymer, RDSwin Aircraft Design Software 20 min
- Dr. Sumon Sinha, Sinhatech and Jean–Luc Soullier., De-turbulators for Setting the ePlane Speed Record 20 min.

Theme 3 – ENERGY – Batteries, Ultra-capacitors, Fuel Cells
- Dr. Eric Darcy of NASA-JSC will present On-demand Internal Short Circuit Device for Evaluating Safety of Li-ion Cell Designs and lead the Expert Panel Discussion of Advanced Battery Tech and Safety, Standards and Infrastructure, 45 min
- Patrick Quach, NASA Ames, Autonomous EV Battery Prognostics, 15 min

4370 Raymonde Way, Santa Rosa, CA 95404. 707-526-3925 website: cafefoundation.org
Inquiries? Email Brien Seeley at: brien@cafefoundation.org