

## CAFE Electric Aircraft Symposium VI

April 27-28, 2012, Flamingo Resort, Santa Rosa, California

### EAS VI PRELIMINARY PROGRAM, FRIDAY, APRIL 27

- 07:15 Full Breakfast, Badge and Program pickup
- 08:00 Morning Program  
*Opening Remarks, Brien Seeley, President, CAFE Foundation*  
*Lessons Learned From the Green Flight Challenge, Jack Langelaan, Penn. State U.*  
*The 403.5 pMPG Pipistrel Taurus G4, Tine Tomazic, Pipistrel*  
*Ideal Lo-RPM Motors for eFlight, David Calley, CTO, Motor Excellence*  
*Distributed Propulsion Breakthroughs, Mark Moore PhD, NASA Langley*
- 09:30 Coffee Break to 10:20  
*The GFC Quickie's Amazing Performance, Gene Sheehan, Team Feuling GFC*  
*Alternair AMP: A Practical Electric Light Sport Aircraft, Stephan Boutenko, CEO, Alternair*  
*Licensing of Electric Aircraft: FAA's Plans, Tom Gunnarson, FAA Small Airplane Directorate*  
*Snap-in Cartridge Battery Pack for Light Sport Aircraft, Eva Hakansson and Bill Dube, Killacyle*  
*World's Speed Record Electric Aircraft, Paul Schlein, ret. Lockheed Chief Scientist, F-22 Raptor*
- 12:15 Lunch
- 13:15 Afternoon Program  
*STOL and Powered Lift Systems*  
*Ultra-Quiet Propellers for Electric Aircraft*  
*The CAFE Green Flight Challenge Program, Brien Seeley, CAFE Foundation*  
*Real World Life with the Tesla, Alan Soule, CAFE Foundation*
- 14:40 Coffee Break
- 15:00 Afternoon Program Continues  
*The Wheel Motors of the "lit" Enclosed, Gyro-Stabilized Motor Cycle*  
*Efficient Pancake Wheel Motors, Mike Ricci, CTO LaunchPoint Technologies*  
*Motor Controllers with Instant Throttle Response, Patrick McLaughlin, Mountain High*  
*KEYNOTE - UAVs and the Global Observer, Bill Parks, Senior Manager, Aerovironment*
- 19:00 Theme Dinners:
- 1) Motors/Controllers/Props/Quietude
  - 2) Aeronautics and Aviation: ESTOL, L/D, Cdo, eCFI and Directed-Autonomous
  - 3) Energy: Sources/Storage/Safety/Standards/Infrastructure

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## EAS VI PRELIMINARY PROGRAM, SATURDAY, APRIL 28

- 07:15 Full Breakfast, Badge and Program pickup
- 08:00 Morning Program - Energy Storage Frontiers  
*KEYNOTE - Engineered Graphene Electrodes for Lithium Batteries, Cary Hayner, NW Univ.*  
*Extreme Energy-Density Battery Chemistries, Bruce Katz, PolyPlus*  
*KEYNOTE - Advancing the Lithium-Air Battery for EVs, Dr. Winfried Wilcke,*  
**Chairman, IBM Research Lab**  
*Safe and Efficient Chargers and Battery Management Systems*
- 10:00 Coffee Break
- 10:20 Morning Program Continues  
*Charging All-Day: New Solar Panels For Curved Surfaces, Carlo Treves: HighFlex Solar*  
*EMR, Pumped Hydro, or Geothermal? Finding Free Energy in the Real World,*  
**Dean Sigler, CAFE Foundation Blog**  
*Bio-diesel Genset for Light Sport Aircraft, Greg Stevenson, GSE Engineering*  
*Benchmark Software for Aircraft Performance Prediction, Norman Howell, SETP, Boeing/ERAU*
- Noon: Adjourn to Lunch at leisure, then visit the CAFE Flight Test Center at 5800 Windsor Road (STS)
- 14:00 CAFE Electric Flight Demonstration at STS: Includes GFC Team Feuling's eQuickie, Team IKE Aerospace's Seraph, Team GSE's Hybrid Pusher and others.