

The future  
of AVIATION  
is here:  
e-flight-expo

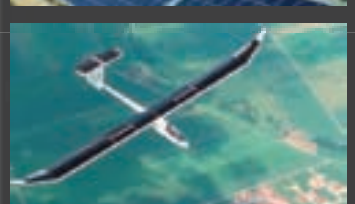
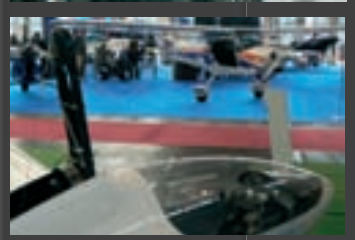
part of AERO 2010  
April 8-11 2010  
Friedrichshafen / Germany

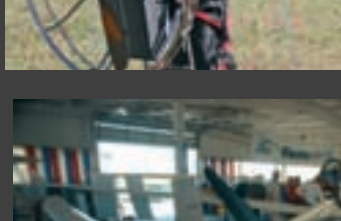
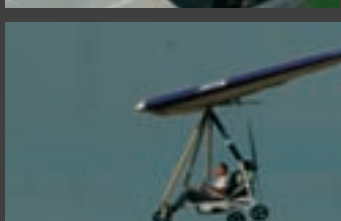
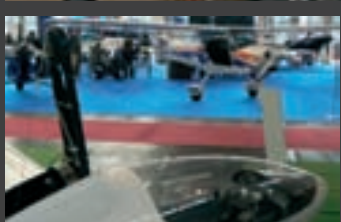
[www.e-flight-expo.com](http://www.e-flight-expo.com)

The **e-flight-expo** is part of the annual AERO in Friedrichshafen / Germany. You will find the most advanced electric, hybrid, fuel-cell and solar aircraft and propulsion systems here. [willi@E-flight-expo.com](mailto:willi@E-flight-expo.com)



2010





**e-flight** is important not only because of exploding fuel prices, we have to face. But also because of a new public approach to and understanding of ecology and natural resources leaving a trace in the daily life of the pilots community.

**e-flight-expo** is the world's first exhibition and symposium to deal with the development and the impact on today's and tomorrow's aviation enhanced by the three "e"s: ecological, electrical, evolutionary.

#### **e-flight-expo 2009 – a success**

AERO, Europe's leading General Aviation exhibition in Friedrichshafen, Southern Germany, hosted the special exhibition **e-flight-expo** organized as a joint-venture with the World Directory of Leisure Aviation, the international annual almanac of leisure aviation.

The first **e-flight-expo** at AERO 2009 generated a lot of interest for the exhibitors, as well as much positive reaction from the general public and the specialist media. It also received coverage on several major TV stations.

Most visitors of **e-flight-expo** 2009 stated they will be back next year, as did all 24 exhibitors, the **e-flight** demopilots and the nine speakers at the **e-flight**-symposium. So we are pleased to announce that there will be another...

**e-flight-expo** on 8.-11. April 2010 at AERO 2010. Invitations to participate will be sent by the end of 2009.

Interested exhibitors please contact AERO Fair or the organizer  
Willi Tacke: willi@flying-pages.com

Die Luftfahrt muss sparsamer und umweltfreundlicher werden, will sie weiter existieren. Die fossilen Treibstoffe werden immer teurer und unsere Umwelt immer labiler. Die Lösung heißt:

#### **e-flight**

e steht für die Schlagwörter: ecological (ökologisch), electrical (elektrisch), evolutionary (evolutionär) im Sinne einer ökologisch vertretbaren, auf Fortschritt beruhenden Luftfahrt.

2009 veranstalteten AERO Friedrichshafen (Europas führende Messe für Allgemeine Luftfahrt, Ultraleicht und light Sport Aircraft) und World Directory of Leisure Aviation (das Nachschlagewerk der leichten Fliegerei) die **e-flight-expo** 2009. Diese Kombination aus Symposium und Ausstellung sollte im Rahmen der AERO 2009 den **e-flight** Gedanken und die Ideen für die umweltfreundliche Luftfahrt fördern.

#### **e-flight-expo 2009**

die erste **e-flight-expo** endete mit einer positiven Bilanz durch die Fach- und Publikumspresse. Mehrere TV- und Radio-Beiträge wurden ausgestrahlt. Seitens der 24 **e-flight-expo** Aussteller, der neun Referenten des **e-flight-expo**-Symposiums, der Piloten und der Besucher der AERO 2009 war der Wunsch einhellig, 2010 wieder dabei zu sein.

**e-flight-expo** 2010 vom 8.-11. April als Teil der AERO 2010

Einladungen zu Teilnahme an der **e-flight-expo** 2010 - der Messe in der Messe AERO Friedrichshafen - werden Ende 2009 versandt.

Interessierte Aussteller können sich jederzeit an die AERO (aero@messe-fn.de) oder den Organisator Willi Tacke (willi@flying-pages.com) wenden

## Conception

The basic concept of the **e-flight-expo** combines the following aspects – all of them with a common denominator – the ecologically oriented future of aviation propulsion systems and we want to show all of them:

### 1. aircraft with electrical engines

and solar charged batteries for less expensive costs per hour – less emission – no exhaust fumes, almost no noise, smaller risks for pilots (no fuel on board) e-flight-expo will show electrically driven aircraft of all categories: e-paragliders, e-sailplanes, e-fixed-wings including two seaters for flight instruction.

### 2. future solar technologies

new photovoltaics, new solar cells, e.g. lacquer, foils, textile cooperations with research institutes – universities, private and public business

### 3. high end battery manufacturers

manufacturers of new super batteries for e-flight as well as for the use in cars and scooters

### 4. 0-emission-flight

solar panels on hangar roofs for energy production electrical - is only ecological if the energy comes from renewable sources-. Integrated Concept with renewable energy production on the airfield and electrical planes lead aviation in the 21st century to 0-emission-flight.

European fact: airports clubs face 3 major problems:

- lack of money - lack of members - lack of regional support by the communities and population

because of noise and exhaust emissions

- close down of airfields because of all three above

e-flight offers a solution: Solar panels on hangar roofs produce electricity to feed a new generation of e-planes. The surplus energy is sold to power companies. The production of solar electric energy is highly subventioned by many european states.

Thus the club makes money and safes on expensive fuel less expensive hourly rates make flying more attractive electric-flight enhances the acceptance and regional support by the population

e-flight-expo presents developements in all sectors of future flight from all over the world:

Brasil: Solar energy from the hangar roof generates the production of hydrogen to be used in an airplane with a modified piston engine

Europe: several electrical paraglider backpacks, trikes and 3x aircraft.

Hybrid propulsion systems for the General Aviation: e-flight-expo

USA: Presentation of NASA-Cafe-Foundation Green price, several electric aircraft, alternative fuel for traditional aircraft engines

USA-Europa: Boeing and Diamond Aircraft with a hydrogen project

China: manned electric aircraft in all Variations

### 5. e-flight-expo award

Like in 2009 e-flight-expo 2010 will award ceremony. The e-flight award will go to the most innovative e-flight project

### 6. e-flight-expo air show

e-planes will participate in the AERO air show flying e-planes is a hot topic especially for non aviation publications thus creating an intensive media coverage

### 7. e-flight-expo forum

lecturs and panel discussions on e-topics

## Das Konzept

Themenbereiche der **e-flight-expo** im Überblick

### 1. Flugzeuge mit Elektroantrieb

Günstigere Flugbetriebskosten durch

Solar-Aufladung

Geringeres Risiko für die Piloten

Geringere Emission von Lärm und Abgasen.

Elektro-Flugzeuge aller Kategorien, vom e-motorisierten Gleitschirm über e-Trikes, Elektro-Segelflugzeuge bis hin zum elektrisch betriebenen, doppelsitzigen Schulungsflugzeug.

### 2. Zukünftige Technologien im Solarbereich

Neue Solar-Technologien (Farben, Lacke, Folien...)

Einbindung von Universitäten und Forschungseinrichtungen

Das Hangardach als Flugzeugtankstelle der Zukunft

### 3. High-End-Batteriehersteller

Hersteller leistungsfähiger High-End-Batterien, für e-flight genauso wichtig wie für den modernen Fahrzeugbau

### 4. 0-emission-flight neue Antriebs-Konzepte

Alternative Flugzeug-Kraftstoffe aus nicht-fossilen Rohstoffen

Hybrid-Antriebe für Flugzeuge

Gesamtkonzepte mit regenerativer Energieerzeugung am Flugplatz und Fliegen ohne umweltschädliche Emissionen - 0-emission-flight

### 5. e-flight-award

Präsentation der innovativsten Projekte im Bereich e-flight, ecological, electrical, evolutionary

### 6. e-flight-expo air show

e-Flugzeuge aller Kategorien werden täglich auf der AERO am Flugprogramm teilnehmen - ein echter Anziehungspunkt für alle Medien

### 7. e-flight-expo-Forum

Vorträge und Symposien zum Thema

e-flight, ecological, electrical, evolutionary



A selection of announced e-flight-expo 2010	exhibitors
A-I-R	qpunkt GmbH
EAA	Razebuzz
ELECTRAVIA	RuhmAIR UL-Leichtflugzeuge
Flight Design	Silence Aircraft
Flugsport Toni Roth	Silence Aircraft
Flycocoon	Silent Family
Fly-Light	Silent Flight e.v.
Flytec	Sky spark Uni Turin
Geiger Engineering	Skyjam
Helite	Solar-Hangar
Hydrogenius - Icare Uni Stuttgart	Sunseeker of SolarFlight
NASA	Swing GmbH
NST	ULM TECHNOLOGIE
PC AERO Calin Gologan	Woopyfly
Pipistrel doo Ajdovscina	Yunec International Ltd

More news about e-flight

**Flügel Magazin** (German)

**Vol Moteur** (French)

**World Directory of Leisure Aviation** (English)

at newsstands, bookstores or directly at:

[www.flying-pages.com](http://www.flying-pages.com)



[www.e-flight-expo.com](http://www.e-flight-expo.com)



**2010**

*Looking  
forward  
to see you!*

*April 8-11 2010 Friedrichshafen / Germany*

**[www.e-flight-expo.com](http://www.e-flight-expo.com)**



Contact: Willi Tacke  
willi@e-flight-expo.com  
Tel.: +49 171 698 08 71

