

# e-flight-forum in China: Take the Momentum

Hosted and organized by Flying Pages GmbH & Z-Park Sky Innovations General

Aviation Industrial Alliance

November 2-4, 2018

Changsha, China



| 中 | 关 | 村 |  
蓝创通用航空产业联盟  
Z-Park Sky Innovations General Aviation Industrial Alliance

[flying-pages.com](http://flying-pages.com)  
[zparkga.com/en/](http://zparkga.com/en/)  
[e-flight-forum.com](http://e-flight-forum.com)  
[e-flight-expo.com](http://e-flight-expo.com)  
[e-flight-journal.com](http://e-flight-journal.com)

sponsored by



## e-flight-forum in China: Take the Momentum



- ✓ The first electric aviation event in China;
- ✓ eVTOL, LSA, hybrid, motor, battery;
- ✓ Manufacturers, regulators, investors from China and the world;

## e-flight-forum in China: Take the Momentum

China is an optimal country to promote electric aviation:

- ✓ Rising awareness of environmental issues in the society;
- ✓ The government's ambitious development plan for the general aviation development by 2020 and strong support for innovation;
- ✓ Electric airplanes suit China's GA operation needs very well;
- ✓ E-mobility has a good momentum in China who became the world's largest market for electric automobiles in 2015. Over half millions electric automobiles were sold in China in 2017.

## e-flight-forum in China: Take the Momentum



The first e-flight-forum held in Beijing in November 2017 invited about 40 prominent presenters from the world, had several world premiere projects and attracted over 300 audiences.



## e-flight-forum in China: Take the Momentum



The first e-flight-forum held in Beijing in November 2017 invited about 40 prominent presenters from the world, had several world premiere projects and attracted over 300 audiences.

## e-flight-forum in China: Take the Momentum

### **2018 Agenda :**

- ✓ eVTOL & other e-aircraft designs;
- ✓ Power supply & propulsion ;
- ✓ Autonomous infrastructure;
- ✓ eVTOL infrastructure & vertiports;
- ✓ Investment road show.

## e-flight-forum in China: Take the Momentum

### **Keynote speakers:**

- ✓ Dr. Frank Anton, SVP & head of e-Aviation, Siemens;
  - ✓ Gregory Bowles, VP, GAMA EPIC;
  - ✓ Tine Tomaciz, CEO, Pipistrel Vertical Solutions;
  - ✓ Erwin Weger, General Manager, Bosch General Aviation Tech.;
  - ✓ Michael Friend, senior advisor, Zunum Aero;
  - ✓ Prof. Florian Holzapfel, TU München;
  - ✓ Prof. Professor Josef Kallo, University ULM, DLR;
  - ✓ Professor Andreas Strohmayer, University Stuttgart;
- and many more...

## e-flight-forum in China: Take the Momentum



### **Introduction of the Chinese co-host:**

Founded in April 2016, Z-Park Sky Innovations General Aviation Industrial Alliance is a nonprofit organization with more than 60 members of the Chinese GA industry including manufacturers, operators, research institutes and investors, and has strong support from various government ministries. Headquartered in Zhongguancun Science Park (known as “Z-Park”), an area in northern Beijing known as “China’s Silicon Valley”, the Alliance is committed to spearhead the technological innovations of general aviation in China.



## e-flight-forum in China: Take the Momentum

The event to meet old and new friends...in China

**When:** 2-4 November 2018 ( On 2 Nov. will be a meeting between GAMA, the Chinese regulator CAAC and invited Chinese manufactures)

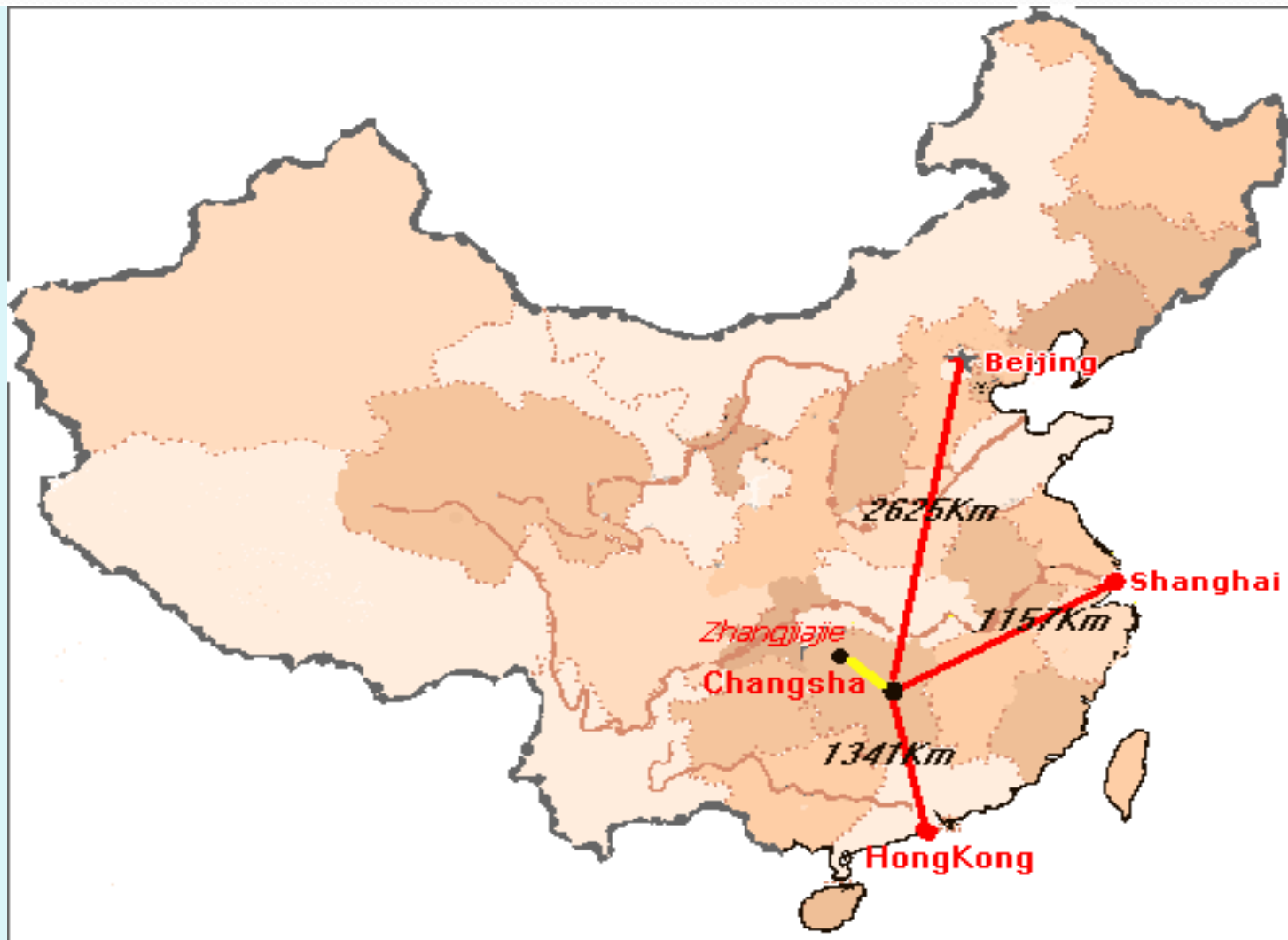
**Where:** Changsha, China

**Venue:** Sanjing Whiersly Hotel

**How to register:** Europe & USA: Willi Tacke, [willi@flying-pages.com](mailto:willi@flying-pages.com)  
China & Aisa: Xin Gou, [xin@flying-pages.com](mailto:xin@flying-pages.com)

More about the location and transportation in the next slide

## e-flight-forum in China: Take the Momentum



## e-flight-forum in China: Take the Momentum

Changsha city:



## e-flight-forum in China: Take the Momentum

**Changsha** is the capital city of Hunan province with 7.9 millions residents. Changsha is a major manufacturing base in China where several world-class Chinese companies are headquartered including Zoomlion and SANY Heavy Industry. Out of the Fortune Global 500 corporate 149 have set up factories or regional offices in Changsha including Volkswagen, Chrysler, Fiat, Bosch, LG, Fresenius Kabi, Walmart, Citibank, HSBC, Standard Chartered. The Changsha government is making great efforts to develop the city into an aviation hub for passenger and cargo transportation as well as a hi-tech oriented manufacturing base. Mongo TV, the most popular satellite TV station in China, is located in Changsha.

## e-flight-forum in China: Take the Momentum

Surrounded by rivers and hills, Changsha is a popular tourism destination in China for its long history and nearby natural beauty. Zhangjiajie, one of the most famous national park in China and a UNESCO world natural heritage, is 5 hours away from Changsha by train or 1 hour by air. The Changsha government has been promoting “green tourism” which intends to maximize the balance between tourism attraction and environmental protection. Therefore, electric aviation, especially the commercial available electric LSA, could be flown at Changsha’s tourism attraction sites. In addition, divided by the Xiang river following through the city, Changsha may also benefit from the eVTOL and urban aerial mobility.



## e-flight-forum in China: Take the Momentum

Zhangjiajie geopark:



For more information about Changsha, you may refer to:  
<https://en.wikipedia.org/wiki/Changsha>

## e-flight-forum in China: Take the Momentum

### **How to get there:**

International flights: Changsha has direct flights to Frankfurt (5 days per week), Hong Kong (multiple times daily), London (3 days per week) , Los Angeles (2 days per week), Sydney, Melbourne, Moscow and Cairo.

Domestic connection: Changsha has multiple daily flight and high speed train to Beijing, Shanghai, Zhuhai (the location of Zhuhai Airshow) and all major Chinese cities.

*By air:* Changsha is 2 hours 20 minutes to Beijing, 2 hours to Shanghai, 1 hour 10 minutes to Zhuhai.

*By high speed train:* Changsha is 5 hours 50 minutes to Beijing, 4 hours 40 minutes to Shanghai, 3 hours 50 minutes to Zhuhai.

## e-flight-forum in China: Take the Momentum

**Sanjing Whiersly Hotel** is a five-star hotel located near Changsha airport economic zone. There is also a free trade zone within the airport economic zone. The hotel is conveniently located 15km from Changsha city center and 15km from Changsha airport. It takes about 20 minutes from Changsha airport to the venue by taxi.



<http://www.whierslyhotel.cn>

Google map location:

<https://goo.gl/maps/wi9yLriJ4rT2>

## **e-flight-forum in China: Take the Momentum**

**For more information about electric aviation:**

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

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

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

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

# 2018 e-flight-Forum Agenda

## 2018 国际电动航空论坛日程

11 月 3 日上午: /Morning, November 3<sup>rd</sup> 2018

开幕式/Opening			
主持人: 北京航空航天大学通用航空产业研究中心主任 高远洋			
Host: Dr. Gao Yuanyang, Beihang University			
时间 Time	单位 Organization/Institute/Company	嘉宾 Guest	演讲内容 Content
9:00-9:10	长沙相关领导致辞	出席领导待定 TBD	开幕致辞 Address
9:10-9:25	长沙推介	出席领导待定 TBD	
9:25-9:30	中航通飞有限责任公司 China Aviation Industry General Aircraft Co.Ltd.	沙长安, 副总经理 Shang Changan, Deputy General Manager	
9:30-9:40	通航制造商协会 General Aviation Manufacturer Association	皮特•邦斯, 总裁 Peter Bunce, President	
9:40-9:50	西门子电动飞机 Siemens eAircraft	奥拉夫•奥托, 商务总监 Olaf Otto, Head of Sales and Business Development	



9:50-9:55	美国蓝创集团 Blue Sky Innovations	蒂姆•阿彻, CEO Tim Archer	
9:55-10:00	德国 Flying Pages 公司 Flying Pages GmbH	威利•塔克, 总裁 Willi Tacke, CEO	
议题一: eVTOL 电动垂直起降机型 Session 1: eVTOL 主持人: 德国 Flying Pages 公司威利•塔克/Host: Willi Tacke			
时间/Time	演讲题目/Topic	演讲人/Speaker	
10: 00-10:10	通航适航审定政策改革和无人机适航审定政策展望 Reformation of General Aviation Airworthiness Certificate Policy and the Outlook of Airworthiness Policy for UAV	张森, 中国民航局航空器适航审定司副司长 Zhang Sen, Aircraft Airworthiness Certification Department of CAAC, Deputy Director in General	
10:10-10:20	空客电动垂直起降机型规划展望 Airbus Different Approach to eVTOL	郑馨杰, 空客城市空中交通亚太区负责人 Derek Cheng, Airbus, Urban Air Mobility, Head of Asia-Pacific	
10:20-10:30	亿航载人电动多旋翼机型应用展望 The Vision of eHang eVTOL	谢娥娥, 亿航智能技术有限公司, 地区销售总监 Megan Xie, eHang, EMEA Sales Director	
10:30-10:40	独特的 Lilium 电动垂直起降机型应用愿景 Lilium: the Vision of a Unique eVTOL Design	塔斯洛•瓦勒博士, 德国 Lilium 百合花电动飞机公司, 对外事务负责人 Dr.Tassilo Wanner, Lilium, Head of Public Affairs	
10:40-10:50	Volocopter 公司的城市空中交通规划愿景 Volocopter’ s Vision of the Urban Air Mobility	法布恩•勒斯特曼, 德国 Volocopter 电动飞机公司, 全球公共政策事务总监 Fabien Nestmann, Head of Global Public Policy	

		Volocopter
10:50-11:00	AutoflightX 电动垂直起降飞机介绍 AutoflightX eVTOL Design Introduction	田瑜, 德国 AutoflightX 电动飞机公司创始人 Tian Yu, Founder of AutoflightX
11:00-11:10	电动垂直起降飞行器新布局及气动弹性影响 Novel Configuration and Aeroelastic Effect of eVTOL Air Vehicles	郭士钧教授, 克兰菲尔德-北航航空联合创新中心 Prof. Guo Shijun, CU-BUAA Joint Centre for Aerospace Innovative Technologies
11: 10-11: 30	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 1
12:00-13:00	午餐 Lunch	

11 月 3 日下午:

Afternoon, Nov. 3rd:

议题二: 自主飞控技术与适航管理 Session 2: Autonomous Flight Technology and Regulation 主持人: 德国 Flying Pages 公司威利•塔克/ Host: Willi Tacke		
时间	演讲题目	演讲人
13:10-13:20	全球电动航空及简化座舱操作适航改革 Global regulation efforts of e-Aviation and simplified vehicle operation	格雷格•鲍斯, 通航制造商协会副总裁、电动航空与创新委员会主任 Greg Bowles, GAMA Vice President, EPIC

13:20-13:30	eVTOL 适航审定问题分析 Identification of certification concerns for an eVTOL aircraft	张曙光教授, 北京航空航天大学 Prof. Zhang Shuguang, Beihang University (BUAA)
13:30-13:40	电动垂直起降系统的驱动飞行控制系统需求开发 Requirement driven flight control development for eVTOL systems	弗洛里昂·赫查菲教授, 慕尼黑工业大学 Florian Holzapfel, Technical University of Munich (TUM) Professor
13:40-13:50	电动飞机设计及适航面临的挑战与解决措施探讨 Inevitable questions in design & certification requirements in new generation of electric vehicles	陈开鸣, 美国航空控制动力公司, 工程咨询 徐强, 卓尔宇航集团总工 Chen Kaiming, Aerospace Control Dynamics, engineering consultant Xu Qiang, Zall Aviation Industry Group, Chief Engineer
13:50-14:00	轻型飞机: 电动自主飞行的第一步台阶 Light aviation as an evolution steps towards electrical autonomous flight	彼得·楚帝, 捷克布尔诺理工大学副教授 Dr. Peter Chudy, Brno University of Technology, Associate Professor
14:00-14:20	电动航空适航认证要点探讨 Important elements of eVTOL certification	布里斯·德汉姆, 空客 A <sup>3</sup> 电动飞机公司, 适航经理 Bryce Durham, Airbus A <sup>3</sup> , Certification Manager
	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 2

议题三: 电动动力系统 Session 3: Electric Propulsion
---

主持人: 德国 Flying Pages 公司威利•塔克/ Host: Willi Tacke		
时间/Time	演讲题目/Topic	演讲人/Speaker
14:20-14:30	西门子航空电动动力设计与应用 Siemens electric propulsion for various designs	奥拉夫•奥托, 西门子电动飞机商务总监 Olaf Otto, Head of Sales and Business Development of Siemens eAircraft
14:30-14:40	航空混合电推进系统研究进展 Recent research progress in aircraft hybrid propulsion system	钱煜平博士, 清华大学 Dr. Qian Yuping, Tsinghua University (Research Achievement with RWTH Aachen)
14:40-14:50	电动航空时代的内燃航发机遇与挑战 The role of combustion engine at the e-Aviation age	尤根•斯瓦茨, 美国大陆发动机公司执行副总裁 Juergen Schwarz, Executive Vice President of Continental Motors
14:50-15:00	新型同轴三发油电混动动力 An innovative design of co-axial three motor hybrid engine	汉斯•舒瓦勒, 德国 Scalewing 公司开发工程师 Hans Schwöller, Scalewing GmbH, development engineer
15:00-15:10	BRP 罗泰克斯公司的电动航空愿景 The e-aviation vision of BRP Rotax	马克•贝克, 奥地利罗泰克斯公司航空业务总监 Marc Becker, Head of Aircraft Business of BRP Rotax
15:10-15:20	涵道风扇推进系统在未来飞行器中的应用前景 Applications of ducted fan in propulsion system on future aircraft	田云博士, 卓尔宇航集团顾问、北京航空航天大学航空科学与技术国家实验室工程师 Dr. Tian Yun, Zall Aviation Industry Group consultant, BUAA National Lab for Aeronautics and Astronautics, engineer
15:20-15:30	符合适航要求的航空电机系统研发	吉勒斯•罗森伯格, 法国法拉第航空科技公司创始人及 CEO

	Developmen of certified electric propulsion system	Gilles Rosenberger, Founder & CEO of Faraday Aerospace
15:30-15:50	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 3
15:50-16:10	茶歇 Coffee break	

议题四：电池及动力源 session 4: Battery & Power Supply 主持人：德国 Flying Pages GmbH 公司威利•塔克/ Host: Willi Tacke		
时间/Time	演讲题目/Topic	演讲人/Speaker
16:10-16:20	氢燃料存储整体解决方案 System integration of hydrogen energy storage	彼特•斯塔特霍尔特，德国 PS-HyTech 公司，CEO Peter Stadthalter, PS-HyTech GmbH, CEO
16:20-16:30	基于 MBSE 的燃料电池验证机设计验证研究 Applied study of MBSE in electric aircraft design	张弛，高级工程师“灵雀”项目负责人，中国商飞北京民用飞机技术研究中心 Zhang Chi, Senior Engineer, COMAC LingQue Project Director, COMAC Beijing Aeronautical Science & Technology Research Institute
16:30-16:40	电动飞机设计中的广义能量链概念（暂定） Generalized energy chain concept in electric powered aircraft design	郭正教授，国防科技大学空天科学学院 湖南省航空学会无人机专业委员会主任 Prof. Guo Zheng, School of Space Science of National University of Defense Technology



		Director of Hunan Society of Aeronautics and Astronautics UAV Committee
16:40-16:50	高比能高安全动力电池系统关键技术应用 Key technologies application of high specific energy and high safety power battery	罗志民，天津力神电池股份有限公司、车载系统事业部总经理兼任 动力电池系统工程技术研究院院长 Luo Zhimin, Tianjin Lishen Battery Joint-Stock Co., Ltd. General Manager of Vehicle System Department, Part-time Dean of Power Battery System Engineering Technology Research Institute
16: 50-17: 10	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 4
18:00	晚餐 Dinner	

11 月 4 日上午:

Morning, November 4<sup>th</sup> 2018

<p>议题五：其他电动机型</p> <p>Session 5: Other e-aircraft Design</p> <p>主持人：德国 Flying Pages 公司威利•塔克/Host: Willi Tacke</p>		
时间/Time	演讲题目/Topic	演讲人/Speaker
9:00-9:10	<p>新能源通用飞机在中国的发展</p> <p>The Development of New Energy General Aviation Aircraft in</p>	<p>范振伟，沈阳航空航天大学副校长</p> <p>Fan Zhenwei, Shenyang Aerospace University, Vice president</p>

	China	
9:10-9:20	影响电动固定翼飞行器设计的重要因素 Important factors in electric fixed wing designs	马蒂亚斯•贝斯，德国 Flight Design 公司 CEO Matthias Betsch, Flight Design GmbH, CEO
9:20-9:30	Scylas 电动教练机及通勤飞机介绍 Introduction of scylax electric trainer and commuter airplane	卡林•哥罗刚，德国 Scylax 电动飞机公司创始人 Calin Gologan, Scylax, founder
9:30-9:40	全球首架混动水陆两栖飞机介绍 Presentation of the world's first hybrid amphibian aircraft	托马斯•伯特雷斯克，挪威 Equator 飞机公司， CEO Tomas Brødreskift, Equator Aircraft, CEO
9:40-9:50	电动航空研究项目资助探讨 Research founding programs for electric aviation	张嶽崙，西门子电动飞机高级商业发展经理 Qingying Zhang, Siemens eAircraft, Senior Manager of Business Development
9:50-10:10	交流讨论 Panel Discussion	该组嘉宾. Guest Speakers from Subject 5
10:10-10:20	茶歇 Coffee break	
议题六：自主飞控安全与产品应用 Session 6: Autonomous Flight Connectivity and Safety 主持人：德国 Flying Pages 公司威利•塔克/Host: Willi Tacke		
时间/Time	演讲题目/Subject	演讲人/Speaker

10:20-10:30	基于汽车业的电动航空产品规划 Automotive based approach for e-aviation	艾尔文•威戈，博世通航技术公司总经理 Erwin Weger, Bosch General Aviation Technology, General Manager
10:30-10:40	电动垂直起降安全新方案 New approach for eVTOL safety	恩瑞克•狄龙，BRS 航空技术公司，CEO Enrique Dillon, BRS Aerospace, CEO
10:40-11:00	5G 通信网络与无人机低空管理 5G mobile network and UAV management	米歇尔•利普卡，华为技术有限公司，技术规划经理 Michael Lipka,Huawei Technologies, Manager Technology Planning
11:00-11:10	支持自主飞行的数据链链接探讨 Datalink connection for support autonomous vehicles	彼特•约翰逊，美国西锐飞机公司总工程师 Paul Johnston, Cirrus Aircraft, Chief Engineer
11:10-11:30	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 6
12: 00-13: 00	午餐 Lunch	
议题七：eVTOL 电动垂直起降机型基础设施建设 session 7: electric aviation infrastructure 主持人：德国 Flying Pages 公司威利•塔克/Host: Willi Tacke		
13:10-13:20	未来电动垂直起降交通设计概念(暂定) Future eVTOL traffic concepts (TBD)	卡尔•迪尔瑞奇，太力飞车公司创始人兼 CTO Carl Dietrich, Terrafugia, Founder & CTO
13:20-13:30	电动航空时代，圣翔停机坪的护航使命 The future is coming: the escort mission of Sensha’s apron	王秋丽，浙江圣翔航空科技有限公司总经理 Wang Qiuli, SENSHA Aerospace, General Manager

	in the era of electric aviation	
13:30-13:40	建设固定翼电动飞机及电动飞行培训基础设施探讨 Building up an infrastructure for conventional eAircraft & flight training	吴昊，蝙蝠亚澳通航科技有限公司总经理 Danny Wu, Pipistrel China, General Manager
13: 40-13: 50	挪威的电动航空之路 Norway' s way to electric aviation	托马斯·伯特雷斯克，挪威 Equator 飞机公司创始人兼 CEO Tomas Brødreskift ,Equator Aircraft, founder & CEO
13:50-14:00	短途通勤电动飞机运营规划 Planning for short-haul electric commuter airplane operation	洛萨得卢卡，德国 Scylax 电动飞机公司，CEO Rosario De Luca, Scylax GmbH, CEO
	交流讨论 Panel Discussion	该组嘉宾 Guest Speakers from Subject 7

### 议题八：电动航空项目路演

#### Session 8: Road Show

主持人：德国 Flying Pages 公司威利·塔克/ Host: Willi Tacke from Flying Pages

14:00-14:15	Equator P2 Xcursion 混动水陆两栖飞机 Equator P2 Xcursion Hybrid Amphibian Project	托马斯·伯特雷斯克，挪威 Equator 飞机公司创始人兼 CEO Tomas Brødreskift ,Equator Aircraft, founder & CEO
14:15-14:30	大功率航空电机 High power aviation electric motor	吉勒斯·罗森伯格，法国法拉第航空科技公司创始人兼 CEO Gilles Rosenberger, Faraday Aerospace, Founder & CEO
14:30-14:45	新型同轴三发油电混动动力 An innovative design of co-axial three motor hybrid engine	汉斯·舒瓦勒，德国 Scalewing 公司开发工程师 Hans Schwöllner, Scalewing GmbH, Development Engineer

14:45-15:00	建立航空氢燃料储存网络解决方案 Build up an aviation hydrogen energy storage system Network	彼特•斯塔特霍尔特，德国 PS-HyTech 公司，CEO Peter Stadthalter, PS-HyTech GmbH, CEO
15:00-15:30	闭幕式 Closing Ceremony	
15:30-17:30	园区参观 Industrial park visit	
18: 00	晚餐 Dinner	