

e-flight-forum China: Ready for Take off

Organized Flying Pages & Z-Park General Aviation Alliance

December 15-16, 2021 Program

ONLINE



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

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e-flight-forum 2020 edition **online** only



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- ✓Due to the international COVID19 pandemic and the travel restrictions around the world we decided to hold the e-f-f 2021 hybrid with a real event in China starting at the Chinese morning time 8 am CET
- ✓live Zoom session in Chinese and English starting at 8 am CET
- ✓Online Panel discussions with participation options

e-flight-forum 2020 edition **online** & real



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✓Join English life stream at

✓https://www.e-flight-forum.com/index_livestream.html

✓Request for Zoom participation

[Christian](mailto:Christian@flying-pages.com)@flying-pages.com

e-flight-forum in China: Ready for Take off Preliminary Program



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- ✓ The first electric aviation event in China since 2017;
- ✓ eVTOL, e-commuter, hybrid, motor, battery, hydrogen technology, fuel cell;
- ✓ Manufacturers, Universities, Regulators, Investors from China and the world;



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e-flight-forum in China: Ready for Takeoff Preliminary Program

2021 Agenda :

- ✓ State of the art and certification of electric propulsion systems
- ✓ eVTOL systems
- ✓ UAM traffic management
- ✓ Fixed wing eAircraft – Fuel cell propulsion
- ✓ First use cases- e -trainer, e-Commuter, cargo delivery drone
- ✓ Certification of e-aircraft.

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e-flight-forum in China: Ready for Takeoff eVTOL, eCommuter, epropulsion Hyrogene and more



eCommuter



UAM - ATM



Cargo drones



first usecases



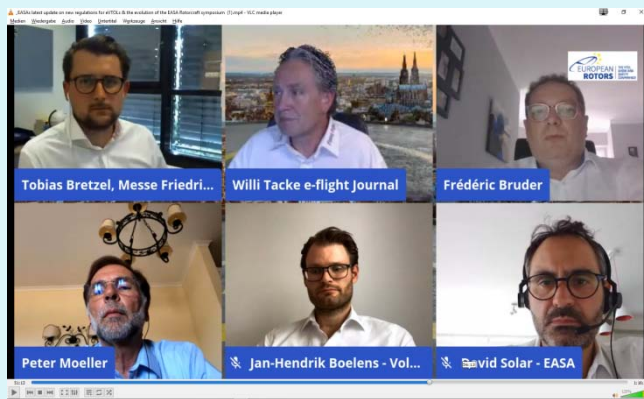
e-flight GA



eVTOL



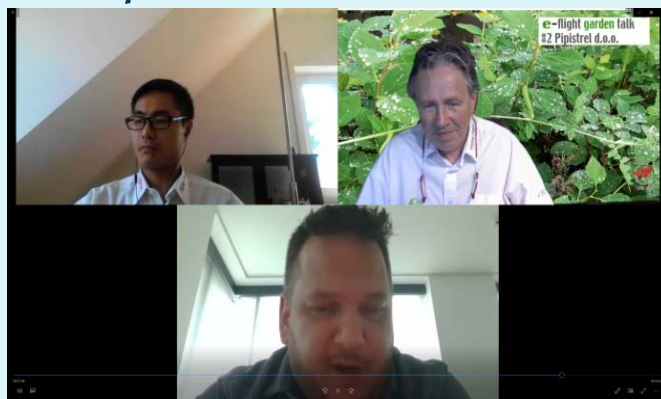
e-flight-forum 2020



online panel discussion



online presentation



Zoom B2B Meetings



Virtual Exhibit



e-flight-forum in China: Ready for Takeoff Background 202 / 21

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 and strong support for innovation;
- ✓ Electric airplanes suit China's GA operation needs very well;
- ✓ E-mobility has a good momentum in China who has become the world's largest electric vehicle market since 2015.

e-flight-forum in China: Ready for Takeoff 2017 Beijing



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

e-flight-forum in China: Ready for Takeoff 2018 Changsha



e-flight-forum in China: Ready for Takeoff 2019 - Shijiazhuang



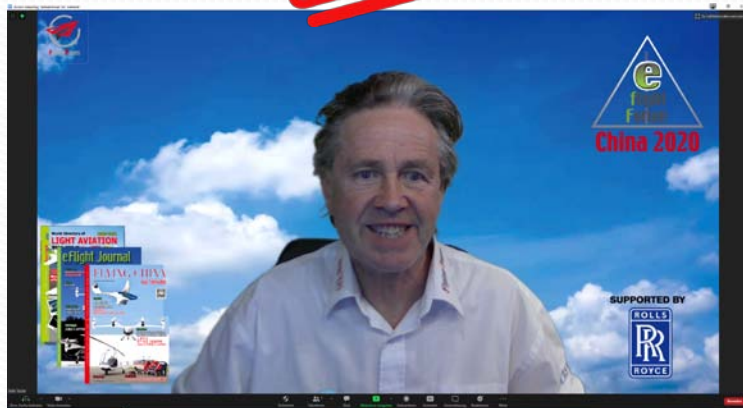
ONLINE

e-flight-forum China 2020 Online:

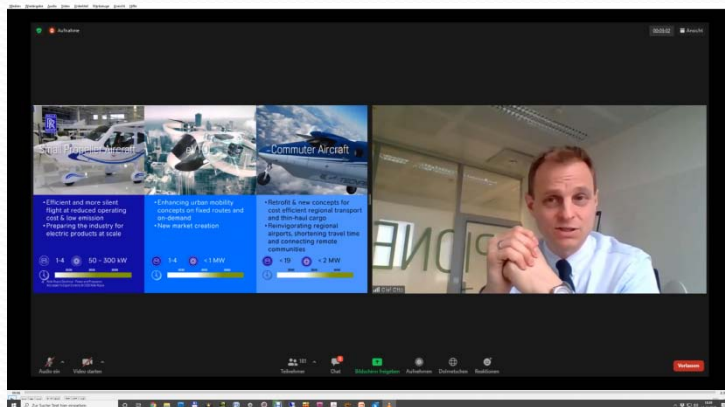
The screenshot shows a Zoom video conference interface. In the center, a man with grey hair, wearing a white button-down shirt, is smiling and speaking. The background is a blue sky with white clouds. In the top right corner of the video frame, there is a logo for "e flight Forum China 2020" featuring a stylized 'e' inside a triangle. In the bottom right corner, it says "SUPPORTED BY" above the Rolls-Royce logo. On the left side of the video frame, there is a stack of three aviation magazines: "World Directory of LIGHT AVIATION", "eFlight Journal", and "FLYING CHINA". The Zoom interface at the bottom shows various icons for video, chat, and other functions, along with a "Breakout" button on the right.

e-flight-forum China 2020 Online:

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e-flight-forum in China: Ready for Takeoff



The event to meet old and new friends from China,
Europe and the world

When: 15-16 December 2021

Where: Real Yichang, Hubei province, China

Online: Zoom - Youtube -stream

How to register: Europe & USA: Willi Tacke, willi@flying-pages.com
China & Asia: Xin Gou, xin@flying-pages.com

Click on to see this Session Day 1 Session 1
Latest eVTOL developements - e-flight-Forum China, Europe, US 2021

e-flight-Forum China, Europe, US

Dec 15.2021

Day 1 Session 1

Subject: Latest eVTOL developments

Speakers

Autoflight

eMagic Aviation

VFS

Host

Flying Pages

Founder & Chairman

Founder & CEO

Executive Director

CEO

Tian Yu

Michael Kügelgen

Mike Hirschberg

Willi Tacke

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China 2021



Click on to see this Session Day 1 Session 2

Certification of electric aircraft & eVTOL - e-flight-Forum China, Europe, US 2021

e-flight-Forum China, Europe, US

Dec 15.2021

Day 1 Session 2

Subject: Certification of electric aircraft and eVTOL
Speakers

EUROCAE	Tech .prg. Mang.	Sebastian Reschenhofer
CAAC	Research InstituteResearcher	Dr.Hao Zhipeng
ITK	Lead Eng. Aerosp.	Andreas Pistek
FACC	VP of UAM	Christian Mundliger

Host

Flying Pages CEO Willi Tacke

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China 2021



Click on to see this Session Day 1 Session 3

Hydrogen aviation - e-flight-Forum China, Europe, US 2021 day 1 Session 3

e-flight-Forum China, Europe, US

Dec 15.2021

Day 1 Session 3

Subject: Hydrogen aviation
Speakers:

SPIC Hyd Energy Co.Ltd.	CTO	Chen Ping
H2fly	CEO	Professor Josef Kallo
APUS	CEO	Phillipp Sheffel
Bosch GA	CEO	Christian Grim
ZeroAvia	Board Member	Michael Friend
Host		
Flying Pages	CEO	Willi Tacke

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China 2021



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Electric propulsion - e-flight-Forum China, Europe, US 2021 Day 2 Session 1

e-flight-Forum China, Europe, US

Dec 16.2021

Day 2 Session 1

Subject: Electric propulsion

Speakers

Wolong Research cen.

Vice President

Liu Dongliang

Rolls Royce Electrical

Customer Business Director

Matheu Parr

MGM Compro

Marketing Director

Jakub Hencel

Helix Carbon

CEO

Richard Krüger-Sprengel

TU Munich

Head of institute

Prof. Florian Holzapfel

Host

Flying Pages

CEO

Willi Tacke

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China 2021

Click on to see this Session Day 2 Session 2

Electric fixed-wing airplanes - e-flight-Forum China, Europe, US 2021 - Day 2 Session 2

e-flight-Forum China, Europe, US

Dec 16.2021

Day 2 Session 2

Subject: Electric fixed-wing airplanes
Speakers

BIT (Beijing Institute of Technology)

Diamond Aircraft CTO

Elektra Solar CEO

Uni Stuttgart Coordinator-FutPrint50

Eyre to There Av. CEO

Host

Flying Pages CEO

Vice President Zhang Liguo

Marteen Freeling

Calin Gologan

Prof. Andreas Strohmayer

Barrie Rogers

Willi Tacke

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自由之翼 World Directory
of Light Aviation
SPECIAL ISSUE OF **Flight**
2021-2022



World Directory of
LIGHT AVIATION
SPECIAL ISSUE OF **Flight**
2021-2022



FLYING CHINA
自由飞翔与通航



China 2021

Click on to see this Session Day 2 Session 3

Infrastructure and operation - e-flight-Forum China, Europe, US 2021 - Day 2 Session 3

e-flight-Forum China, Europe, US

Dec 16.2021

Day 2 Session 3

Subject: Infrastructure and operation

Speakers

VFS

Infrastructur director

Rex Alexander

Zhejiang Sensha

VP0

Zhang Hongfei

Skyroads

CEO

Corvin Huber

BBAA

Project manager

Lars Elvering

Host

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2021国际电动航空论坛议程 E-Flight-Forum Program

开幕式 opening ceremony

主持人: 高远洋 北京航空航天大学通用航空产业研究中心主任
Host: Gao Yuanyang, director, General Aviation Industry Research Center, BUAA

致辞 honorary speech

林左鸣 中国航空学会理事长
Lin Zuoming, Secretary General, Chinese Society of Aeronautics and Astronautics

视频致辞 Honorary speech (Video)

罗尔斯罗伊斯电气公司
Rolls Royce Electrical

Joby航空公司
Joby Aviation

议题一: eVTOL电动垂直起降飞行器 subject 1: eVTOL
议题二: 电动飞行器适航审定 subject 2: Certification of electric aircraft
议题三: 氢能航空 subject 3: Hydrogen aviation
议题四: 电驱动力系统 subject 4: Electric propulsion
议题五: 固定翼 subject 5: Electric fixed-wing airplanes
议题六: 基础设施及运营保障 subject 6: Infrastructure and operation

2021/12/15 15 December (Wednesday)

时间 time	单位名称 entity	职务 job title	姓名 name	演讲题目 topic	欧洲中部时间 (CET)
9:30-9:50	中国民用航空局适航司 (线上) CAAC certification department (Online)	司长 Director General	杨桢梅 Yang Zhenmei	电动飞机适航审定考虑和展望	2:30-2:50AM
9:50-10:10	工业和信息化部装备中心重大装备处 Ministry of Industry and Information (MII)	处长 Director	金伟 Jin Wei	锚定碳达峰碳中和目标, 加快推进电动航空发展	2:50-3:10
10:10-10:30	清华大学 Tsinghua University	教授 Professor	张扬军 Zhang Yangjun	飞行汽车研究探索与未来发展	3:10-3:30
10:30-10:50	中国商飞北研中心 (线上) COMAC, Beijing Aircraft Technology Research Institute (Online)	预研总师 Chief Engineer of Advanced Research	杨志刚 Yang Zhigang	“双碳”背景下新能源民机发展展望	3:30-3:50

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10:50-11:10	中国民航中南管理局 CAAC Central and Southern Regional Administration	审定处调研员 Director	陶娟 Tao Juan	民用航空产品适航管理实践与思考	3:50-4:10
11:10-11:30	同济大学 Tongji University	首席专家 Lead Scientist	明平文 Ming Pingwen	氢能燃料电池及航空应用进展	4:10-4:30
11:30-11:50	小鹏汇天 HT Aero	创始人兼CEO Founder & CEO	赵德力 Zhao Deli	飞行汽车全场景思考	4:30-4:50
12:00-13:00	合影 group photo 自助午餐 lunch				5:00-6:00

13:00-13:20	中国民航干部管理学院 CAAC Management Institute	主任 Director	吕人力 Lu Renli	基于航线的无人机运行	6:00-6:20
13:20-13:40	沃飞长空 Aerofugia	总裁 President	郭亮 Guo Liang	智行畅达——城市空中出行发展路径	6:20-6:40
13:40-14:00	顺丰无人机 SF Express UAV	董事长 Chairman	李东起 Li Dongqi	VTOL垂直起降无人机	6:40-7:00
14:00-14:20	亿航智能 Ehang	副总裁 Vice President	蒋瑜涛 Jiang Yutao	城市空中交通运营管理	7:00-7:20
14:20-14:40	辽宁通用航空研究院 Liaoning General Aviation Academy (LGAA)	副院长 Vice President	赵铁楠 Zhao Tienan	锐翔系列电动飞机的适航实践	7:20-7:40
14:40-15:00	北京航空航天大学 BUAA	教授 Professor	张曙光 Zhang Shuguang	eVTOL自主飞行和安全性	7:40-8:00
15:00-15:20	宁德时代 CATL	电池管理系统部总监 Director, BMS	张伟 Zhang Wei	航空电动化的挑战和展望	8:00-8:20

电动垂直起降飞行器 (eVTOL)

15:20-15:40	峰飞航空科技 Autoflight	创始人兼董事长 Founder & Chairman	田瑜 Tian Yu	电动垂起 改变世界 Presentation of the V1500 M- first Flight and new European Program of autoflight	8:20-8:40
15:40-15:55	美国Joby电动飞机公司 (tbc) Joby Aviation	政府事务总监 Head of Government & Regulatory Affairs	Greg Bowles	Joby电动垂直起降飞行器最新进展 State of development of Joby eVTOL program development	8:40-8:55
15:55-16:10	德国eMagic电动飞机公司 eMagic Aviation	创始人兼CEO Founder & CEO	Michael Kügelgen	eMagic电动垂直起降飞行器项目 eMagic: Development of a brand new German eVTOL until first Flight and first Hover	8:55-9:10
16:10-16:25	交流讨论 Group discussion		该组嘉宾		9:10-9:25
16:25-16:30	下一组准备间隔 preparation break				9:25-9:30

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电动飞行器适航审定 Certification of electric aircraft					
16:30-16:45	EUROCAE	项目经理 Technical Programme Manager	Sebastian Reschenhofer	与厂商合作建设SC-VTOL适航规章及符合性方法 Developing of standards and means of compliance for SC-VTOL in cooperation with manufacturers	9:30-9:45
16:45-17:05	中国民航科学技术研究院适航所 CAAC Research Institute	博士 Researcher	郝志鹏 Dr. Hao Zhipeng	电力航空器审定的一点思考	9:45-10:05
17:05-17:20	德国ITK公司	Lead Engineer Aerospace	Andreas Pistek	针对电动垂直起降飞行器及其他应用的航空软件开发及适 航审定 Aviation software developement and certification for eVTOL and other applications	10:05-10:20
17:20-17:35	奥地利FACC公司	副总裁（城市空中交通） VP of UAM	Christian Mundliger	针对城市空中交通应用的结构件设计、制造与审定 Design, manufacturing and Certification of structural components for the UAM market	10:20-10:35
17:35-17:50	交流讨论 group discussion		该组嘉宾		10:35-10:50
17:50-17:55 下一组准备间隔 preperation break					10:50-10:55
氢能航空 Hydrogen aviation					
17:55-18:15	国家电投集团氢能发展有限公司 SPIC Hydrogen Energy Co.Ltd.	技术总监 CTO	陈平 Chen Ping	国家电投氢能公司航空应用场景研发介绍	10:55-11:15
18:15-18:30	乌尔姆大学 Ulm University	教授 Professor	Josef Kallo		11:15-11:30
18:30-18:45	德国APUS氢能飞机项目	CEO	Phillipp Sheffel	氢燃料电池在双座及更大电动机型上的集成应用 Fuel Cell integration into GA Aircraft in Germany from 2 seater to larger aircraft	11:30-11:45
18:45-19:00	博世通航公司 Bosch GA	CEO	Christian Grim	车用氢燃料电池系统的航空应用 Synergies through the use of automotive fuel cell and hydrogen system components in aviation	11:45-12:00
19:00-19:15	美国ZeroAvia氢能飞机公司	董事 Board Member	Michael Friend	氢燃料电池通勤机型开发 Developement of a fuel cell driven electric Commuter aircraft in a step by step approach	12:00-12:15
19:15-19:30	交流讨论 group discussion		该组嘉宾		12:15-12:30

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2021/ 12/ 16 16 December (Thursday)

8:00-10:30	参观犹亭区企业 visiting local companies				1:00-3:30
11:00-11:20	湖北省通用航空产业联盟 General Aviation Industry Alliance of Hubei Province	理事长 Secretary General	徐强 Xu Qiang	电动航空产业链上的湖北通用航空	4:00-4:20
11:20-11:40	宜昌斯塔娜航空科技有限公司 Sterna Propellor	董事长 Chairman	郑伟 Zheng Wei	螺旋桨和飞机总体设计的匹配性（桨机匹配），浅谈长航时整机设计	4:20-4:40
12:00-13:00	自助午餐 lunch				5:00-6:00
13:00-13:20	之江实验室智能机器人研究中心 Robot Research Center, Zhejiang Lab	副主任 Deputy Director	谢安桓 Xie Anhuan	关于eVTOL智能化的思考和探索	6:00-6:20
13:20-13:40	西工大飞机电推进技术工信部重点实验室 Electric Propulsion lab, Northwestern Polytechnical University	教授 Professor	李伟林 Li Weilin	分布式电动涵道推进飞行器介绍	6:20-6:40
13:40-14:00	江苏亨睿航空工业有限公司 Hengrui Aerospace	技术部部长 Director, Technology Department	高玉宝 Gao Yubao	复合材料制造工艺	6:40-7:00
14:00-14:20	北京数智航云科技有限公司 Beijing SZHY Technology	总经理 General Manager	王鹏 Wang Peng	数字化智能化技术赋能低空空域运行管理	7:00-7:20
14:20-14:30	万户宇航工业有限公司 Wanhu Aerospace	董事长兼CEO Chairman & CEO	张天洪 Zhang Tianhong	以技术创新，拥抱航空产业新时代	7:20-7:30
电驱动力系统 Electric propulsion					
15:00-15:20	卧龙电驱全球中央研究院 Global Research Center, Wolong Electric Group	副总裁 Vice President	刘栋良 Liu Dongliang	电动航空用高功率密度电驱动力系统的机遇与挑战	8:00-8:20
15:20-15:35	罗尔斯罗伊斯电气公司 Roll Royce Electrical	客户项目总监 Customer Business Director	Matheu Parr	固定翼及垂直起降电动飞行器电推系统开发与适航审定 Development and certification of eMotors and electric propulsion systems for fixed-wing and eVTOL	8:20-8:35
15:35-15:50	捷克MGM Compro公司	董事总经理 Managing Director	Martin Dvorsky	各类电动飞行器电推系统开发实践 Design and development of propulsion systems for various eAircraft from light single-seater to eCommuters and eVTOL	8:35-8:50

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15:50-16:05	德国Helix公司	CEO	Richard Krüger-Sprengel	针对电动飞行器的螺旋桨开发实践 Development of Propellers specially for electric aircraft and eVTOL	8:50-9:05
16:05-16:20	慕尼黑工业大学 Technical University of Munich	教授 professor	Florian Holzapfel	电动垂直起降飞行器研究与生态链建设 Research and Cooperation of TUM in the eVTOL ecosystem.	9:05-9:20
16:20-16:35	交流讨论 group discussion		该组嘉宾		9:20-9:35
16:35-16:40	下一组准备间隔 preparation break				9:35-9:40
固定翼 electric fixed-wing airplanes					
16:40-16:55	北京理工大学未来立体交通研究院 BIT (Beijing Institute of Technology)	副院长 Vice President	张利国 Zhang Liguo	电动航空器的趋势与动力系统关键技术	9:40-9:55
16:55-17:10	钻石飞机公司 Diamond Aircraft Corp.	首席技术官 CTO	Marteen Freeling	eDA40: 23部电动教练机项目 Development of the new Diamond electric trainer aircraft eDA 40 in Part 23 class	9:55-10:10
17:10-17:25	德国Elektra Solar电动飞机公司	CEO	Calin Gologan	电动双座超轻型教练机项目 Development of the full electric Electra Trainer 2 seat Aircraft for the German UL Category	10:10-10:25
17:25-17:40	斯图加特大学, 飞行器设计研究所University of Stuttgart / Institute of Aircraft Design	所长 head of institute	Prof. Dr.-Ing. Andreas Strohmayer	FutPrint50: 混动电推50座支线飞机项目 FutPrint50 - towards a hybrid-electric 50-seat regional aircraft	10:25-10:40
17:40-17:55	电动飞机运营商	CEO	Mike Coats	电动飞机运营实践与新机型开发 More than 2 years of experience in Operation of various electric aircraft in Australia and US. And the development of a new e-Aircraft in Australia	10:40-10:55
17:25-17:40	交流讨论 group discussion		该组嘉宾		10:25-10:40
17:40-17:45	下一组准备间隔 preparation break				10:40-10:45
基础设施及运营保障 Infrastructure and operation					
17:45-18:00	垂直飞行协会 (VFS)	执行理事 Executive Director	Mike Hirschberg	Situation of the Development of the Infrastructure and ATC for UAM,	10:45-11:00
18:00-18:20	浙江圣翔航空科技有限公司 Zhejiang Sensha	副总裁 vice president	张鸿飞 Zhang Hongfei	圣翔航空助力绿色飞行--低空新基建运营服务商	11:00-11:20

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18:20-18:35	德国Skyroads公司	CEO	Corvin Huber	欧洲针对电动垂直起降飞行器的空管系统设计与建设实践 Design and build-up of ATC for eVTOL in cooperation with manufacturers and other Stakeholders with test areas in Germany and Europe	11:20-11:35
18:35-18:50	柏林及巴登符腾堡航空产业联盟（BBAA）	总裁	Prof. Dr. Andreas Timmermann	柏林及巴登符腾堡地区电动飞机基础设施建设与运营 The development of the infrastructure for development and Operations of electric aircraft and eVTOL in the Berlin Brandenburg region	11:35-11:50
18:50-19:05	交流讨论 group discussion				11:50-12:05
19:05-19:10	闭幕 Closing				12:05-12:10

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MARCH 2 - 5, 2022
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