

China Aerospace Propulsion Technology Summit 2016

Guiyang City , Guizhou Province

25th -26th, May, 2016

Make Manufacturing Intelligent
Make Aero-engine Excellent



LinkedIn Group

Official Host



Chinese Society of
Aeronautics and Astronautics

Co-organized by



Engine Certification
Center of CAAC



AVIC Guizhou
Aero Engine
Research Institute



AVIC Guizhou
Liyang Aero Engine
(Group) Co., Ltd.

Hosted by



Galleon (Shanghai)
Consulting Co., Ltd.

Fifth

Dear Colleagues,

According to the forecast, in the next two decades, China civil aircraft market will need at least 6330 new aircrafts, worth USD 950 billion. The expansion of civil aviation scale will encourage the growth of aero engine related requirements. In the next 10 years, China civil aero engine sales demand is expected to reach more than RMB480 billion and the demand of corresponding maintenance and replace parts service will reach more than RMB320 billion. Over the next two decades, demand of China aero engine and gas turbine will exceed RMB2 trillion, civilian market will be RMB1.5 trillion. Engine parts, assembly and high temperature alloy materials will boom.

After the plan of Made in China 2025 and Two-Machine Special Program issued, aero engine industry is expected to obtain above one hundred billion yuan special funds to support the domestic aero engine R&D and manufacturing. Combined with the matching funds, there will be more than 200 billion yuan to support aero engine in the next five years. Under this strong support of policies and funding, aero engine industry will step into the historical opportunity.

In order to improve the domestic aero engine technical reserves and subcontract production, parts R&D capacity and ensure the advancement, economy and airworthiness of aero engine, "2016 China Aerospace Propulsion Technology Summit" (hereinafter CAPTS 2016) will be held on May 25th and 26th, 2016 in Guiyang city. As an annual event, it will share the latest industry insights, and hope the CAPTS 2016 series activities can bring you the maximum value.

Chinese Society of Aeronautical and Astronautics
Guizhou Aero Engine Research Institute
Guizhou Liyang Aero Engine (Group) Co., Ltd

Organizing Committee Members



Yanpei ZHOU

Director

Aero Engine Airworthiness Certification
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Professional Executive

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Vice President, Chief Engineer,

Dean of Technology Center

AVIC Xi'an Aero-engine (Group) Co., Ltd.



Liang WANG

Chairman

AVIC Guizhou Liyang Aero-Engine
Corporation Ltd.

“ The summit’s agenda was well-organized and professional.

---- CAAC Engine Airworthiness Certification Center

“ It was an excellent summit providing a completely unique and interesting perspective on Propulsion Technology.

---- Bombardier



Support Letter from CAAC Engine Airworthiness Certification Center

Support letter from AVIC Guizhou Aero Engine Research Institute



Support letter from AVIC Guizhou Liyang Aero Engine (Group) Co., Ltd.

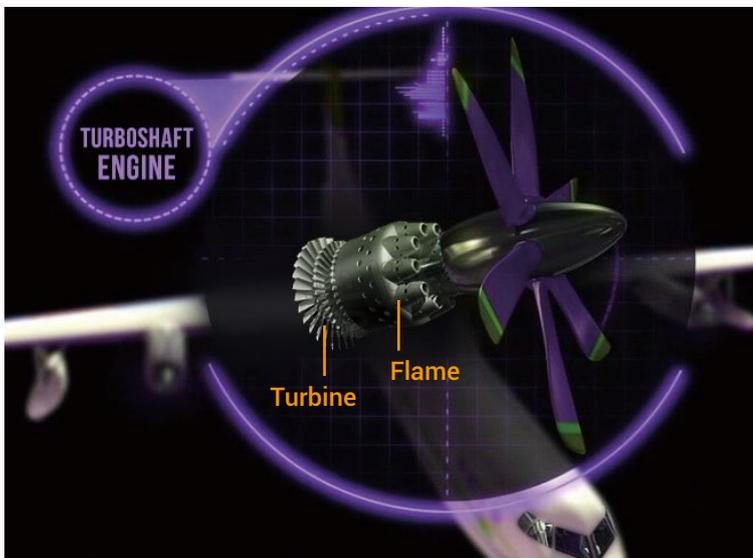
KEY HIGHLIGHTS AT CAPTS2016

China is Restructuring its Engine Industry

- China will finish its restructuring at the end of November. There will be a new aero engine company which separates from AVIC Group take in charge of engine business in China.
- AVIC Aviation Engine Corp Plc. and ACAE will be responsible for aero engine design.
- AVIC Xi'an Aero-Engine (Group) Ltd., AVIC Aero-Engine Controls Co Ltd. and Sichuan Chengfa Aero Science and Technology Co Ltd will merge into one company will be respectively responsible for whole machine, control system and components.
- After National Defense Science and Technology Industry 2025 and Two Major Projects issued, aero engine industry is expected to obtain above one hundred billion yuan special funds to support the domestic aero engine R&D and manufacturing.



AVIC South Aviation Industry (Group) Co., Ltd. and Snecma plan to invest 180billion euro on building a new joint-venture company which will design, manufacture and sales turbine and flame of civil turboshaft engine.



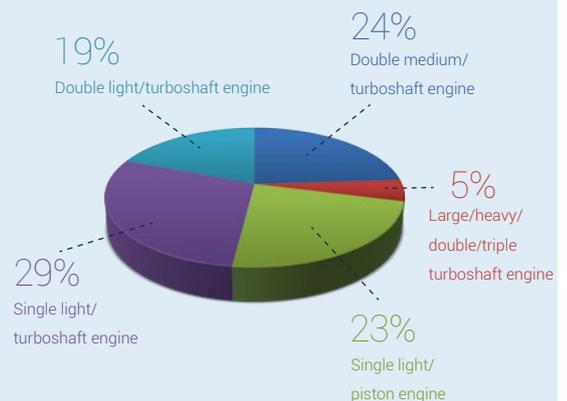
Subcontract Business of Guizhou Liyang Aero Engine (Group) Co. Ltd.,

- Low pressure turbine parts, fan shaft, turbine and guide fan of CFM56-3/5/7
- Casing parts of GP7000 engine; ring and structural parts of CF6 engine
- Nacelle ring of the main types of Airbus and Boeing
- Sheet metal structure of Honeywell and P&W
- Ground gas turbine blades and other powder equipment parts

First Domestic Commercial Aero Engine Testing Bed Has Been Built and Put into Use in Shanghai Lingang Area



By 2020, New Increased Demand of China Civil Helicopter will Reach at least 1200, Turboshaft Engine will be Expected to Reach at 1500 units.



PREVIOUS WELL-KNOWN SPEAKERS



Guangyi LI
Deputy Chief Engineer
AVIC Development
Research Center



Yanpei ZHOU
Director
CAAC Engine Airworthiness
Certification Center



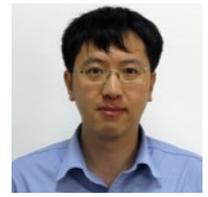
Kai LI
Vice President
COMAC Shanghai
Aircraft Design Institute



Jibao LI
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Dr. Tingyi LIU
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Liang WANG
Chairman
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President
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Jiarong LI
Deputy Chief Engineer
AVIC Beijing Institute of
Aeronautical Materials



Dr. Hooman REZAEI
Founder & President
International Aircraft
Engine Association



Dr. Dale Carlson
General Manager,
CFM LEAP Technology
Strategy
GE Aviation



Dr. Alan H. EPSTEIN
Vice President,
Technology & Environment
Pratt & Whitney



Dr. Simon WEEKS
Head of Aerospace
Research & Technology
Rolls-Royce plc



Olivier LAROCHE
Vice-President
China Operations
SAFRAN SNECMA CFM



Herve PASBECQ
General Manager
Turbomeca China



Mikhail Jakovlevich IVANOV
Head Science Researcher
of Turbine Department
Central Institute of
Aviation Motors

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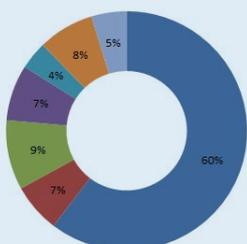
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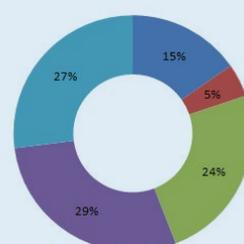


Previous Participants by Categories



- Aero Engine
- Component
- Manufacturing Equipment
- Materials
- Research Institute
- Service
- Software

Previous Participants by Job Position



- GM/President/VP
- BD Director
- Technical Director
- Sales & Marketing Director
- Pushasing Director

Wednesday, May 25th, 2016

8:15 **Onsite Registration**

8:45 **Welcome Address**

Galleon

8:50 **Opening Address**

Chinese Society of Aeronautics and
Astronautics

9:00 **The Impact of Aero Engine New Technology
on Aviation Safety**

International Aircraft Engine Association

9:30 **Discerning the Opportunity and
Challenge of Aero Engine Industry from
“Made in China 2025”**

- ✧ *Current situation of Chinese aero engine industry*
- ✧ *How does intelligent manufacturing improve the efficiency of aero engine industry?*
- ✧ *The opportunity and challenge of aero engine industry from “Made in China 2025”*

Development Research Center of the State
Council

10:00 **Coffee Break**

10:30 **The Impact of Aero Engine Company’s
Strategic Reform on Chinese Engine
Industry**

- ✧ *Organizational structure of new aero engine company*
- ✧ *Strategic development plan of aero engine industry*
- ✧ *The impact of aero engine company strategic reform*

Unnamed Company

(New merged aero engine company)

11:00 **Cooperation with Russia—Get Together to
Develop New Double-Aisle Aircraft**

✧ *Cooperation mode of new type aero engine*

✧ *Demand of new aero engine project*

✧ *Technical breakthrough of new aero engine project*

COMAC Shanghai Aircraft Design and
Research Institute

11:30 **Development Situation of Commercial
Aero Engine Project and Its Technical
Breakthrough**

- ✧ *Development situation of commercial aero engine project*
- ✧ *Technical breakthrough of commercial aero engine project*
- ✧ *Development trend of commercial aero engine project and its demand*

AVIC Commercial Aircraft Engine Co., Ltd.

12:00 **Network Luncheon**

13:30 **Reserved for Sponsor**

14:00 **How to Provide the Optimal Aviation
Power for MA700 Aircraft through
Cooperating with Domestic Aircraft
Manufactures?**

- ✧ *Technical improvement of PW150C Engine to cater for MA700 Aircraft*
- ✧ *Future purchasing plan of PW150C engine*
- ✧ *Pratt&Whitney’s strategic plan in China*

Pratt & Whitney

14:30 **Current Situation of Subcontracting Civil
Aero Engine Parts and Its Future Plan**

- ✧ *Current situation of subcontracting civil aero engine parts*
- ✧ *Future plan of subcontracting civil aero engine parts*

Guizhou Liyang Aero Engine (Group) Co.,
Ltd.

15:30 Panel Discussion:

How does Aero Engine Company Cooperate with Different Suppliers?

- ✧ *The supplier management chain of aero engine company*
- ✧ *Aero engine company's ensure plan on supplier chain*
- ✧ *The cooperation support which aero engine company needed*

AVIC Commercial Aircraft Engine Co., Ltd.
AVIC Shenyang Aero Engine Research Institute
Guizhou Liyang Aero Engine (Group) Co., Ltd.

GE Aviation
Rolls-Royce
Turbomeca

16:30 **Discerning Technical Development**

Approaches of Aero Engine Industry

- ✧ *Changes in the development of aero engine industry*
- ✧ *Aero engine technical development approaches*
- ✧ *Compared with other countries, American aero engine technology development advantage*

GE Aviation

17:00 **Development Technology of Chinese Civil Aero Engine FADEC System and Its Development Trend**

- ✧ *Technology situation of Chinese FADEC system*
- ✧ *Technology gap of FADEC system between other countries*
- ✧ *Development trend of Chinese FADEC system*

AVIC Aeroengine Control Research Institute

End of Day One

Thursday, May 26th, 2016

9:00 **Chinese Civil Aero Engine Airworthiness Current Situation, Trends and Future Work Patterns**

- ✧ *Current situation of Chinese civil aero engine airworthiness*
- ✧ *Chinese civil aero engine airworthiness trends*
- ✧ *Future work patterns of Chinese civil aero engine airworthiness*

CAAC Engine Airworthiness Certification Center

9:30 **Airworthiness Requirements of Turboshaft Engine and Its Testing & Verification**

- ✧ *Airworthiness requirements of turboshaft engine*
- ✧ *Turboshaft engine testing & verification methods*
- ✧ *Demand of turboshaft engine testing & verification*

Turbomeca

10:00 **Coffee Break**

10:30 **Testing Requirement of Civil Aero Engine Combustion Chamber**

- ✧ *Current testing situation of aero engine combustion chamber testing*
- ✧ *Technical requirements of aero engine combustion chamber testing & verification*
- ✧ *Equipment demand of aero engine combustion chamber testing & verification*

AVIC Gas Turbine Establishment

11:00 **How does Blade Tolerance Test Approved Airworthiness Certification?**

- ✧ *Airworthiness Certification Requirements for Blade Tolerance Test*
- ✧ *How does Blade Tolerance Test Approve Airworthiness Certification?*

CFM International

11:30 **Reserved for Sponsor**

12:00 **Network Luncheon**

13:30 **The Advantage of Aero Engine Modification and Its Demand**
Rolls-Royce

14:00 **Material Characteristics of Aero Engine Key Components and Its Processing Technology**

- ✧ *Material characteristics of aero engine key components*
- ✧ *Processing technology of aero engine key components*
- ✧ *Processing demand of aero engine key components*

AVIC Heavy Machinery Co., Ltd.

14:30 **Application of New High Temperature Titanium Alloy Materials on Aero Engine and Its Development**

- ✧ *The gap between domestic and foreign countries on high temperature titanium alloy materials*
- ✧ *Successful application of casting TiAl materials on foreign aero engine blade*
- ✧ *Application of new high temperature titanium alloy materials on future Chinese aero engine*

AVIC Beijing Aeronautical Materials Research Institute

15:00 **Application of Single Crystal High Temperature Alloy on Aero Engine**
Guiyang Precision Casting Co., Ltd.

15:30 **Coffee Break**

16:00 **The Impact of New Type Aero Engine on Original Supply Chain and MRO Service**
MTU Aero Engine GmbH

16:30 **How to Provide the Optimal Aero Engine MRO Service to Airlines?**
Air France

Thursday, May 26th, 2016

Sub-forum: Aircraft Engine Airworthiness Verification & Testing Technology

Engine Certification Center of CAAC, with aero engine OEMs, testing organizations and testing equipment manufacturers, will have a discussion on the following five aero engine tests through introducing their content, method and equipment.

9:00 **Aero Engine Icing Test**

9:30 **Aero Engine Lightning and HIRF Test**

10:00 **Coffee Break**

10:30 **Aero Engine Emission Test**

11:00 **Aero Engine Ingestion Test**

- ✧ *Bird Ingestion Test*
- ✧ *Rain Ingestion Test*
- ✧ *Hail Ingestion Test*

11:30 **Aero Engine Rotor Blade Containment Test**

12:00 **Network Luncheon**

Yes, I / we will participate in CAMPS 2016.

| Participation Option | |
|---|-----------------------|
| <input type="checkbox"/> Summit 2-Day Ticket | USD2,350 / CNY14,950 |
| <input type="checkbox"/> Summit 2-Day Ticket + Site Visit at Guizhou Liyang Aero Engine (Group) Co., Ltd. | USD 2,950/ CNY 18,900 |
| <input type="checkbox"/> Documentation Sponsor (Including 2-day main sessions, an A4 full colorful page insert in conference workbook, two times pre-arranged one-to-one meetings) | USD6,280 / CNY39,950 |

* The registration fee includes all sessions, luncheon and documentation.

* Please note accommodation is not included in the registration fee. But we can arrange hotel reservation for you at a special rate.

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* All sponsor packages are including a colorful A4 advertising page and 2 times pre-arranged VIP meetings.

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- Cancellation within 30 days of the course will result in loss of the full fee. Failure to attend a course with no prior notice will also result in loss of the fee.
- Occasionally it is necessary for reasons beyond our control to alter the contents and timing of the program or the identity of the speakers. If a conference has to be canceled at the last moment for reasons outside the control of Galleon, we will refund your fee in total, but cannot be held liable for any other expenses incurred by participants or their companies due to the cancellation.