



SAE 2019 航空技术论坛 AVIATION TECHNOLOGY FORUM

June 4-5, Crowne Plaza Shanghai

www.sae.org/attend/aviation-technology-forum



EVENT OVERVIEW

The SAE International Aviation Forum provides an open technical forum for engineers, scientists, and technicians working in aircraft design, aircraft systems, or as aviation authorities, aircraft design consultants and aircraft maintainers/sustainers, to get an overview of aircraft design processes from beginning to end, including propulsion, modeling and simulation, safety assessment, aircraft manufacturing, and the challenges of aircraft design and insights into the next generation of manufacturing.

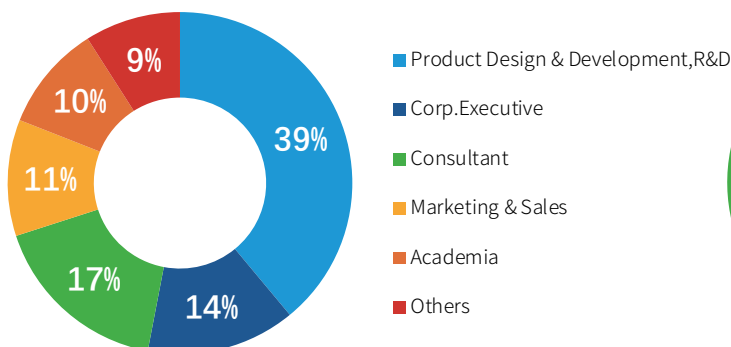
This event will provide technical insights into the process of aircraft design and provides practical knowledge for implementation throughout the design lifecycle. This event will give participants insights into how global manufacturers approach the design and support of leading-edge aircraft. The practical knowledge for managing the design from concept to production, and real-world knowledge on how the aircraft design, integration, testing, and sustainment is managed.

The event is organized by engineers and leaders of global manufacturers and component suppliers, including the leading airframe and engine manufacturers.

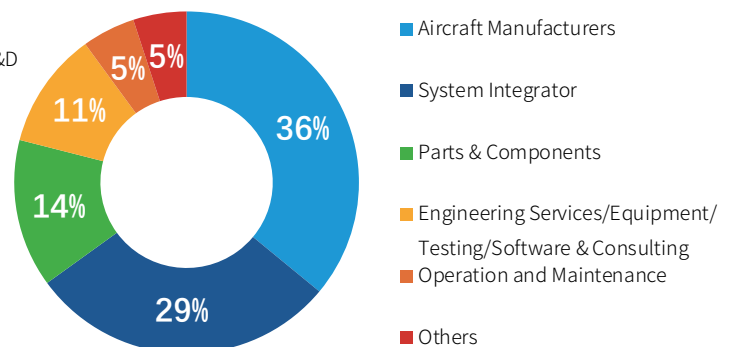
HOSTS

SAE International
Commercial Aircraft Corporation of China, Ltd.
Aero Engine Corporation of China

JOB CATEGORY



COMPANY CATEGORY



TECHNICAL PROGRAM

DAY ONE

9:00 - 10:30

WELCOME SPEECH

SAE International / COMAC / AECC-CAE

KEYNOTE

Guanghui WU Academician of Chinese Academy of Engineering
Vice President & C919 Chief Designer, COMAC

INTRODUCTION TO CJ-1000A

AECC-CAE

MCFARLAND AWARD PRESENTATION

10:30 - 11:00

TEA BREAK

11:00 - 12:30

NEW AIRCRAFT DEVELOPMENT

TBA

Haomin LI CR929 Deputy Chief Designer, COMAC
SAE S-18 Aircraft and Systems Development and Safety Assessment Committee Member

[Regional Aviation Market Update, Asia](#)

Fernando Grau Director of Market Intelligence, Embraer Asia Pacific & China

[Engaging with the FAA for Certification](#)

Sarbhpreet S.Sawhney Manager, International Division, AIR-400, Aircraft Certification Service, FAA

LUNCH

13:30 - 15:00

ENGINE - AIRCRAFT INTEGRATION AND SYSTEM DEVELOPMENT

[Propulsion Aerodynamic Design and Integration of Commercial Transports with High Bypass Ratio Engines](#)

Kurt Acheson Lead Engineer, Propulsion Aerodynamic integration and Technology Development, Boeing

[EMC Harness Model Design Validation Applied to Helicopter Engine](#)

Charles Jullien EMC Engineer, Safran Electrical & Power

[Application and Challenges of ARP4754A Compliance in Electronic Engine Control System](#)

Qin ZHU Principle Engineer of Engine Control System, AECC-CAE

15:00 - 15:30

TEA BREAK

15:30 - 17:30

URBAN AIR MOBILITY

[Urban Aviation - Embracing the New Mode of Transport](#)

Dr. Weiliang LOU Managing Director, IET

[Development Assurance, the Current ARP4754B and AS7209 Status: What Does the Future Hold?](#)

Andy Wallington Consultant Program / Technical Manager, ACE Aerospace Certification LLC

TBA

Christine DeJong Director, Global Innovation and Policy, GAMA

[Key Technology Research of Hybrid Electric Propulsion System](#)

Dr. Yuping QIAN Assistant Research Fellow, School of Vehicle and Mobility, Tsinghua University

TECHNICAL PROGRAM

DAY TWO

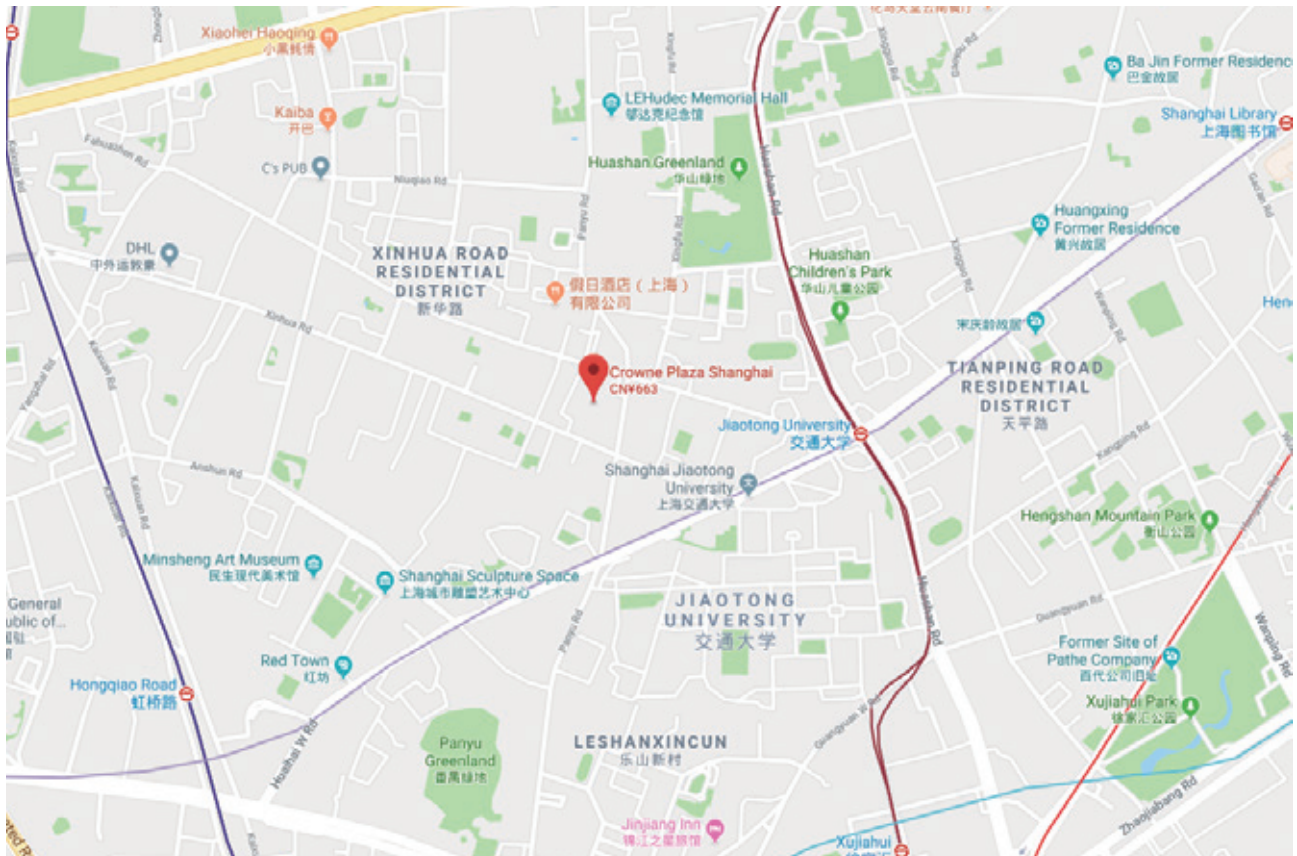
9:00 - 10:40	ADVANCED MATERIALS AND MANUFACTURING PROCESSES Additive Review, Perspective and Challenges Juan Carlos Munguia Castañeda Director of Engineering, M Aerospace RTC / Member, SAE AMS AM Committee Flexible Automated Fastening with Robotic Systems – PowerRACe as Customized Solution for Aerospace Applications Walter ZHOU Vice President (Sales), Broetje-Automation Group (Shanghai) Unique Patent - Microwave Graphitization Technology in Advanced Material Ben WANG CEO, UHT Unitech Company Ltd. Corrosion Resistant Steel Alloy for Aircraft Landing Gears and Structures Dr. Gregory Vartanov Chief Engineer, Advanced Materials Development Corp. Application of Light Weight Materials and Process Technology on Commercial Aeroengine Jianwei CHANG Senior Engineer / Deputy Designer, AECC-CAE
10:40 - 11:00	TEA BREAK
11:00 - 12:30	ARTIFICIAL INTELLIGENCE IN AIRCRAFT DESIGN AND MANUFACTURING Coming Impact of Artificial Intelligence in Aerospace Sky Matthews Distinguished Engineer and CTO, IoT, IBM Digital Aviation Ecosystem Connecting 4As: Airlines, Airports, Aircrafts and ATM Grace JIANG Director of Digital Technology, AVIAGE SYSTEMS Industry 4.0 in MRO - Digitalization without Beta Versions Sven Taubert Program Leader & Site Manager, Innovation Business & Product Development, Lufthansa Technik
	LUNCH
13:30 - 15:00	DIGITAL DESIGN AND MANUFACTURING Global Landscape and China's Development Direction of 3D Printing Weidong HUANG Professor, Northwestern Polytechnical University / Lifelong Chief Scientist of BLT Deployment of Additive Manufacturing in Aerospace Design and Manufacturing Soeren Wiener Senior Director, Advanced Manufacturing Engineering, Honeywell Aerospace Health - Readiness for the Next Generation of Manufacturing Systems Ravi Rajamani Principal Consultant, drR2 Consulting Prevailing Trends in Manufacturing for Commercial Aerospace William Bihlman Founder and President, Aerolytics LLC
15:00 - 15:30	TEA BREAK
15:30 - 17:00	IMPLEMENTING SAFETY IN A GLOBAL INDUSTRY An Improved Method for Security Simulation Analysis Based on System Extended Model Jia SONG Safety Verification Engineer, AVIC China Aero-PolyTechnology Establishment Aircraft Safety Requirement Analysis Method in the Framework of MBSE Yani ZHANG Senior Engineer in Safety Engineering, AVIC China Aero-PolyTechnology Establishment Landing under Extreme Conditions: Early Safety Screening by Means of the 'Pilot - Automaton - Aircraft - Operating Environment' System Dynamics Model Ivan Burdun President & Directeur Scientifique, AIXTREE S.A.S. Alexander Grebenkin Head of Department, MIEA JSC

VENUE INFORMATION

Crowne Plaza Shanghai

Address: 400 Pan Yu Road, Xuhui District, Shanghai, China

Phone: 86-21-61458888



REGISTRATION FEE

CNY 3,800



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For More Information

REGISTRATION & EXHIBIT & SPONSORSHIP

China Region

Alan AO

p: +21-6140-8920

e: Alan.AO@sae.org

Global

Arlene DISILVIO

p: +1-724-772-4060

e: Arlene.DiSilvio@sae.org



NORTH AMERICA

Warrendale, PA, USA - Headquarters

400 Commonwealth Drive
Warrendale, PA 15096

p +1.724.776.4841

f +1.724.776.0790

Troy, MI, USA

755 West Big Beaver, Suite 1600
Troy, MI 48084

p +1.248.273.2455

f +1.248.273.2494

Washington, DC, USA

1200 G Street, NW, Suite 800
Washington, DC 20005

p +1.202.463.7318

f +1.202.463.7319

EUROPE

Brussels, Belgium

280 Boulevard du Souverain
1160 Brussels, Belgium

p +32.2.789.23.44

e info-sae-europe@associationhq.com

London, UK - SAE Aerospace Standards

1 York Street
London
W1U 6PA, United Kingdom

p +44.207.034.1250

f +44.207.034.1257

ASIA

Shanghai, PRC

Room 2503, 1350 North Sichuan Rd,
Hongkou District,
Shanghai, 20080, P.R. China

p +86.21.6140.8900

f +86.21.6140.8901

