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
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

More Information, Please visit www.sae.org/attend/aviation-technology-forum
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

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

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