

# 46<sup>th</sup> Engine Systems Symposium



**DAY 1 – 06/04/17**

**LECTURE ROOM 3 – VINCENT BUILDING B52a**

**LECTURE ROOM 4 – VINCENT BUILDING B52a**

**LECTURE ROOM 5 – VINCENT BUILDING B52a**

**09:00 – 9:45**

**SoftInWay Inc. – speaker Mr Vasileios Pastrokakis, Business Development Engineer – Vincent Building Auditorium**

09:45

Intake systems for subsonic aircraft

Start systems for aero gas turbines

Lubrication systems for aero gas turbines

10:05

Intake systems for supersonic aircraft

Start systems for industrial gas turbines

Lubrication oils for aero gas turbines

10:25

Intake systems and inlet filtration for industrial gas turbines

Ship propulsion – Propellers

Siemens industrial gas turbine engines and technology evolution

10:45

Vibration monitoring for gas turbines

Ship propulsion – Water jets

Alstom industrial gas turbine engines and technology evolution

11:05

Compressor cleaning systems for industrial gas turbines

Marine propulsion systems

Solar turbines industrial gas turbine engines and technology evolution

**11:25 – 12:10**

**MHPSE – Mitsubishi Hitachi Power Systems Europe – Vincent Building Auditorium**

**12:10 – 13:00**

**Lunch Break**

**13:00 – 13:45**

**Chinese Ambassador Talk – Vincent Building Auditorium**

13:45

Life usage monitoring systems

Wind turbines

China aero gas turbine engines and technology evolution

14:05

Engine health monitoring system – Industrial

Solar energy powered gas turbine

Closed cycle gas turbines – Nuclear

14:25

Alternative fuels for aero gas turbine engines

Fuel cell driven gas turbines

Energy storage and retrieval for power generation

14:45

Engine health monitoring system - Aero

Full authority digital electronic control systems for aero gas turbines

Combined cycle gas turbine power plants

**15:05 – 15:50**

**Networking Break – Whittle Building Forum**

15:50

Fuels for rocket engines

Water injection systems for aircraft applications

Sri Lankan gas turbines and technology evolution

16:10

Alternative fuels for industrial gas turbine engines

Active clearance control system

Micro gas turbines

**16:30 – 17:15**

**Score Energy Limited – speaker Mrs Julia Brown, Managing Director – Vincent Building Auditorium**

17:15

Variable geometry power turbines

Tidal/wave turbines

Gas turbine intercoolers

17:35

Auxiliary power systems for aircraft

Carbon capture and storage

Ice detection and protection systems

17:55

Aero engine low emission combustion systems

Pulse detonation engines



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**DAY 2 – 07/04/17**

**LECTURE ROOM 3 – VINCENT BUILDING B52a**

**LECTURE ROOM 4 – VINCENT BUILDING B52a**

**LECTURE ROOM 5 – VINCENT BUILDING B52a**

**09:00 – 9:45**

**TOTAL UK – Industrial Lubricants Division – speaker Mr Gautier Perrin, Field Engineer – Vincent Building Auditorium**

09:45

Ion thruster

Ramjet engines for aircraft

Engine performance testing – Aero

10:05

Liquid rocket engines

Scramjet propulsion systems

Engine performance testing – Industrial

10:25

Hybrid space propulsion systems

The future of aircraft propulsion

Fan and compressor tests and test rigs

10:45

Brayton cycles for space applications

Lift fan for aero engines

Combustor tests and test rigs

11:05

Electromagnetic thrusters for space applications

Open rotor propulsion systems

Turbine tests and test rigs

11:25

GE civil turbofan engines and technology evolution

Distributed propulsion systems

SAFRAN gas turbine engines and technology evolution

**11:45 – 12:30**

**ITP UK – Aircraft Engine and Components producer – speaker Mr Dan Prince, Head of Engineering – Vincent Building Auditorium**

**12:30 – 13:00**

**Group photos – Whittle Building Forum**

**13:00 – 14:00**

**Lunch Break**

14:00

Pratt-Whitney civil gas turbine engines and technology evolution

GE military turbofan engines and technology evolution

Aircraft propellers and turboprop engine control

14:20

Gas turbine maintenance – Aero engines

Rolls-Royce military turbofan engines and technology evolution

Engine emissions measurement techniques

14:40

Comparison of RR and GE civil turbofan engines

Pratt-Whitney military gas turbine engines and technology evolution

Engine air mass flow measurement techniques

15:00

CFM56 engines

Industrial gas turbine noise reduction systems

Gas turbine manufacturing

15:20

Aviation emissions regulation

Civil aircraft noise reduction systems

Gas turbine acoustic monitoring

**15:40 – 16:25**

**Networking Break – Whittle Building Forum**

16:25

Thrust reverse systems – Military aircraft

Gas turbine certification – Industrial engines

Gas turbine repair

16:45

Thrust vectoring and V/STOL systems for aircraft

Exhaust systems – Civil aircraft

Temperature sensors and temperature measurement

17:05

Exhaust systems – Military aircraft

Pressure sensors and pressure measurement