

JEC Asia Conferences to highlight Composites developments in Eco-Design, Simulation, Aeronautics, Automotive and HP Tanks in Asia

Singapore, July 20, 2015 – JEC Group reveals the program of its 5 conferences organized alongside with JEC Asia composites Show 8th annual session at the SUNTEC Center in Singapore next October 20-22, 2015. A panel of 20 speakers from 10 countries will share and exchange with delegates expected from 43 countries. 2 of these sessions are organized in partnership with TUM Asia in Singapore and Hanyang University in the Republic of Korea.

Eco-designs and recycling

Nowadays, being environmentally conscious is no longer a suggestion but a requirement. **Governmental legislations** are increasing in order to gain better control over which products are manufactured in a wide range of products. Composite materials in particular, have for a while now been encouraged to go “green” by developing the use of natural fibers, cleaner resins and recycling opportunities.

With speakers from Ashland, Cobra International, Ecole des Mines d’Albi and Solvay.



Simulation / Robotization

As the use of composite materials becomes more widespread in every major industry, the **need for efficient and well-adapted simulation tools** has equally grown. Indispensable for behavioral predictions thanks to the structural analysis and optimization they provide, software tools provide reliable and pre-manufacturing solutions in design.

Along these lines, the pressure of productivity rates and mass production has brought an increase in the use of flexible robotics which will be delved into during this session.

With speakers from TUM Asia and their partners including Duo Machinery Equipment.



Aeronautics: the challenge of light-weighting

Thanks to their **high strength and lightweight properties**, composite materials are becoming increasingly widespread in the aerospace industry. Light-weighting is a particularly important challenge for the industry, as it allows for fuel reductions, but it is a difficult one as aeronautical parts possess stringent quality requirements. Other major current challenges for this industry when it comes to composite

materials include: reduced assembly time and maintenance, and greater impact resistance in airframes.

With speakers from Chomarar, Republic Polytechnic and Surface generation.

Cycle-time reduction in the automotive industry

High-speed production is one of the biggest challenges of the automotive industry when it comes to composite materials, notably in order to **achieve cost parity** with metal equivalents. Thanks to process innovations and adapted epoxy resins, cycle-times for high-performance structural parts have already been significantly reduced during these last few years, but the incentive to lower them even more and thus attain the crucial one-minute cycle time.

With speakers from Hanyang University, RWTH Aachen and Lamborghini.

Composite vessels for high pressure storage

Over the years, these types of vessels, which hold liquids and gases under pressure, have been through different stages: from all-metal to metal or plastic lined composite tanks, and finally to a linerless tank.

These **high-pressure storage tanks are one of the fastest growing market for advanced composites** and this session will focus both on market trends and the latest innovations.

With speakers from Ashland, Connectra and Gruntech Polymers.

KEY FIGURES

- ❖ 5 CONFERENCES
- ❖ 20 PAPERS
- ❖ 10 COUNTRIES
- ❖ 2 PARTNERS (TUM ASIA & HANYANG UNIVERSITY)
- ❖ 20 SPEAKERS
- ❖ 5 NETWORKING BREAKS

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Contacts:

Thierry-Alain Truong

JEC Group

E: truong@jeccomposites.com

P: +33 (0)1 58 36 43 98

Dorothee David & Pauline Martin

Apocope Agency

E: media@agenceapocope.com

P: +33 (0)1 45 78 87 37

About JEC Group

With a network of 250,000 professionals, JEC is the largest composite industry organization in the world. JEC represents, promotes and helps develop composite markets by providing global or local networking and information services. Through Knowledge and Networking, JEC's experts offer a comprehensive service package: the JEC publications – including strategic studies, technical books and the JEC Composites Magazine – the weekly international e-letter World Market News and the French e-letter JEC Info Composites. JEC also organizes the JEC World Show in Paris – world and European leader, strongly supported by the industry and five times bigger than any other composites exhibition – JEC Asia in Singapore and JEC Americas in Atlanta, Boston and Houston; the Web Hub www.jeccomposites.com; the JEC Composites Conferences, Forums and Workshops in Paris, Singapore, Atlanta and Boston; and the JEC Innovation Awards program (Europe, Asia, America, India and China).

The composite industry employs 550,000 professionals worldwide and generated \$70 billion worth of business in 2014.