

FLASH NEWS

February 28th, 2024

Renowned Pr Stephen Tsai to be part of the Aeronautics Day at JEC World

JEC World, the leading global tradeshow for the composites industry, is honored to welcome Professor Stephen W. Tsai, Aeronautics & Astronautics, Stanford University on March 6th at 11am to conclude the Aeronautics conference.

He will make a presentation about DD. Metalite, a laminate stronger than steel, lighter than aluminum, that will make composites easier and lower cost to produce. A perfect conclusion to the roadmap for Decarbonization of the Aeronautics.

JEC will also benefit from his presence to celebrate his career, giving him a Life Achievement Award, in the presence of Michel Cognet Chairman of JEC and Thierry Merlot President Aerospace Europe, Asia Pacific, Middle East, Africa and Industrial of HEXCEL Group. Pr Tsai will also stay for a signing session of his last publication Double Double, from 11.30am at the Publication store (Entrance Hall 6, Mezzanine).

“For some time, we have been advocating the use of one parameter for stiffness in trace, one parameter for failure criterion by leveraging Nettles circle, individual ply drops instead of symmetric pairs, one-axis layup with no cross-plying, and one continuous layup without stopping for mid-plane symmetry.

Now we need only one test for interlaminar stress, one laminate for design allowable generation, and one of two stacking sequences for DD to reach homogenization the fastest, and more simplifications to come. All these steps that will make composites easier and lower cost to produce are enabled because of the homogenization of DD laminates.

We are now advocating a new concept directly derived from DD. Metalite is a laminate stronger than steel, lighter than aluminum. With Metalite neither conventional and unconventional laminates, nor metals, can compete,” stated Steve Tsai.

Save the date

Wednesday, March 6, 11.00 to 11.30

Auditorium Jean-Theves Room 401

Signing session

Publication store from 11.30 to 12.00

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PRESS CONTACT

CLC Communications - Tél. +33 (0)1 42 93 04 04

Jérôme Saczewski – Christelle Grelou – Ingrid Jaunet – Anaëlle DJADJO

c.grelou@clccom.com – i.jaunet@clccom.com – a.djadjo@clccom.com

JEC

Alix Lenne

lenne@jeccomposites.com

About Stephen W. Tsai

BE 1952, DEng 1961, Yale. Ford Motor, Washington University, US Air Force Materials Laboratory, Stanford University. Known for his Tsai-Hill failure criterion; lamination parameters with Pagano; Tsai-Wu failure criterion and strength ratios; Halpin-Tsai micromechanics formula; trace, master ply, omni envelopes, and unit circle failure criterion with Melo; double-double laminates; Lam search with Massard and Shah; metallic grid/[±60] CFRP skin for glueless assembly with Zheng, Wang, Kappel, and Jin. He is a member of the US Academy of Engineering since 1995.

About JEC

JEC Group is a non-profit organization entirely dedicated to promoting composite materials and fostering their applications globally.

Publisher of the JEC Composites Magazine, the industry's reference magazine, JEC organizes several events around the world, including JEC World, the leading international exhibition dedicated to composites and their applications, which takes place annually in Paris. JEC media, events and digital channels connect a global community of professionals from the composites industry and beyond, to enable knowledge transfer, create networking opportunities, and highlight innovation.

JEC: Connecting the World with Composites

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