



SAMPE Japan 先端材料技術協会 京都国際会議 2023

# JISTES 2023 KYOTO

***Composites for Aerospace,  
Automotive, and now  
for Carbon Neutral !***

Date

July 20 (Thursday) ~ 21 (Friday), 2023

Venue

Doshisha University, Kyoto, Japan

Speakers

Total 12 presentations from  
Europe, US,  
Asia and Oceania

- 1) Application Technology of Composites to Aircraft**  
IHI, Safran, Isojet Equipements, Boeing
- 2) Latest Mobility application from materials to molding**  
Teijin, HRC, Mitsubishi Chemical, RUCKS
- 3) CF initiatives that contribute to a sustainable society**  
AIST, NITTA, Deakin University

Table Top Exhibition

Catalogues/Samples by companies and universities

Gion Festival

7/14-16 / 21-23 : Pre-festival Evening

7/17, 7/24 : Grand Parade

先端材料技術協会

Society for the Advancement of Material and Process Engineering

# JISTES 2023 Program

## Composites for Aerospace, Automotive and now for Carbon Neutral!

- ✓ Application Technology of Composites to Aircraft
- ✓ Latest Mobility application from materials to molding
- ✓ CF initiatives that contribute to a sustainable society

Composites, especially carbon fiber composites, are being increasingly applied to aerospace, automotive, and construction fields due to their lightweight and high-strength properties. Although the environmental impact of manufacturing carbon fiber tends to give a negative image, its use has been accelerating in recent years as an indispensable material for realizing a sustainable society. The program of this JISTES2023 consists of 12 lectures on the current efforts to achieve sustainability, including innovative carbon fibers, recycling technologies, new material technologies such as CMC and thermoplastic materials, and the application technologies for aerospace and automotive applications.

### 7/20 ( Thursday )

10:30-10:40	Opening Dr. Uzawa
Session chair :	
10:40-11:40	<i>The Challenge of Ceramics Matrix Composite for Jet Engine application</i> Shinji Muto ( IHI )
11:40-13:00	LUNCH
Session chair :	
13:00-14:00	<i>Thermoplastics composites for aircraft equipment : challenges &amp; opportunities</i> Patrick HENRAT ( SAFRAN Composite )
14:00-15:00	<i>Liquid composite molding; Efficient composite solution for primary aircraft structures - Evolutions/ automation and strategies</i> Zouhair AJJOUR ( Isojet Equipements )
15:00-15:30	Coffee break & Table Top Exhibition
Session chair :	
15:30-16:00	<i>Composites in Aircraft : Past and Present</i> James Sutherland ( Boeing )
16:00-17:00	<i>Innovative and Sustainable Composite Lightweight Solutions for the Mobility Sector</i> Erich Fries ( HRC )
17:00-19:00	Banquet

### 7/21 ( Friday )

Session chair :	
9:40-10:40	<i>Advanced Composites Technologies for Next-GEN mobility</i> Ichiro Kitano ( Teijin )
10:40-11:40	<i>Progress in Forged Molding Compound technology and its mobility applications</i> Koichi AKIYAMA ( MCG ) Mitsubishi Chemical Group
11:40-13:00	LUNCH
Session chair :	
13:00-14:00	<i>Manufacturing of CFRP laminates by using Continuous Compression Moulding (CCM) Technology</i> Andreas Muller ( RUCKS Maschinenbau )
14:00-15:00	<i>Sustainable carbon fibre developments at Carbon Nexus: bio-derived precursors and high efficiency manufacturing</i> Prof. Russell Varley ( Deakin Univ. ) <i>Using Carbon Fibre Surface Modification as a Strategy to Induce Multifunctionality into Composites</i> Prof. Luke Henderson ( Deakin Univ. )
15:00-15:30	Coffee break & Table Top Exhibition
Session chair :	
15:30-16:15	<i>Physical properties of composite affected by interfacial modification with CNTs</i> Maki Onizuka and T.Komukai ( NITTA )
16:15-17:00	<i>Current status of CF recycling and evaluation technologies for recycled CFs</i> Yoshiki SUGIMOTO ( AIST )
17:00-17:15	Closing Remarks

## 【 Gion Festival 】

7/14-16 / 21-23 : Pre-festival Evening

