

## 第 50 回繊維工学研究討論会

### The 50th Textile Research Symposium (2023 in Mauritius)

[https://tmsj.or.jp/trs\\_e/50th-trs-2023/](https://tmsj.or.jp/trs_e/50th-trs-2023/)

**The deadline for abstract submission (oral/poster) has been extended to July 7th.**

Introduction to the Japan Textile Machinery Society of Japan and the 50th Textile Research Symposium.

The Textile Research Symposium (TRS) is an international symposium organized by The Textile Machinery Society of Japan. The first TRS was organized in 1972 by two world-renowned academics, Professor Sueo Kawabata, Kyoto University and Professor Masako Niwa, Nara Women's University, to bring together researchers in the field of textiles from academia and industry. Their main aim was to rejuvenate the fading emphasis of the importance of textile research and education in the Japanese Education System. Over the past fifty years, the TRS has become a well-known international annual symposium covering a wide range of textile research fields from fiber science, apparel engineering to management. This symposium is playing an important role in bridging the communication gap and forging friendships between textile scientists, engineers and researchers across the world. The TRS has continued to be held annually even after the retirement of Prof. Kawabata and Prof. Niwa. In recent years, the TRS has been held in Japan and overseas alternately. Up to now, the TRS has successfully been held seven times in six overseas countries, i.e. Hangzhou in China (2006), Daegu in Korea (2008), New Delhi in India (2010, 2016), Guimaraes in Portugal (2012), Christ Church in New Zealand (2014) and Liberec in Czech Republic (2019). In 2023, TRS will celebrate half a century of impactful research and innovation in the field of textiles. TRS 50 will be held in Mauritius in September 2023. We extend a warm welcome to all textile professionals to present their work and to be part of the 50th anniversary celebrations of the Textile Research Symposium.

**【Date】 7-9 September 2023**

**【Venue】 Ravenala Attitude Hotel Mauritius with Online (Hybrid)**

Ravenala Attitude Hotel Mauritius : <https://hotels-attitude.com/en/the-ravenala-attitude>

**【Session】**

#### **1 . Fibers, Yarns, Textiles and Composites**

“Fibers, Yarns, Textiles and Composites” will cover topics related to promising materials and technologies that contribute to the advancement of fiber science and industry. This session will cover topics related to textiles as a reinforcement of composite materials, including structure, fabrication, analytical methods and mechanical characterization of textiles and textile composites.

#### **2 . Nanofibers, Nonwovens and Industrial Textiles**

“Nanofibers, Nonwovens and Industrial textiles” will cover topics related to fabrication and functionalization of electro spun nanofibers, and their industrial application and commercialization. This session will also cover topics related to new technologies and standards for manufacturing technology and evaluation methods of industrial textiles with nonwoven fabrics.

### 3. Dyeing and Finishing

“Dyeing and Finishing” will cover topics related to dyeing, functional processing and color evaluation science for fiber materials, textiles and products. Dyeing and finishing are essential sciences and technologies that add value and a variety of functions to fibrous materials. This session will also look at the future of dyeing and finishing for a sustainable society.

### 4. Science and Technology of Textiles Machinery

“Science and Technology of Textiles Machinery” covers topics related to novel technologies of textile machinery, their industrial applications and commercialization. This session also includes studies on fiber assembly, fabric design such as 3D structured fabrics and textiles product fabrication.

### 5. Apparel, Comfort and Smart Textiles

“Apparel, Comfort and Smart textiles” will cover topics related to new research activities by an inter-disciplinary approach for apparel science, protective clothing, and simulation techniques for the appearance and behavior of fabrics and garments. This session will also cover topics related to a novel technologies for evaluating the functional properties of textile assembly, and novel technologies and standards for certification of textiles and apparel products.

### 6. Textiles for Sustainable Development

Textiles for Sustainable Development” will discuss about the sustainability challenges related to textiles from the viewpoint of the engineer, technologist and designer that inter alia may include: Bio-inspiration, 3D weaving and design research methods. This session will also cover topics as to how the global textile industry is addressing the sustainable development goals (SDGs).

#### 【Important Dates】

Abstract Submission (Oral/Poster)	<del>May 15, 2023</del> → <b>July 7, 2023</b>
Notification of Acceptance	<del>June 15, 2023</del> → <b>July 22, 2023</b>
Full Paper Submission (Optional)*	August 15, 2023
Registration Closes	August 25, 2023

\*PhD students may choose to submit Full Research Abstracts only. However, only Full Research Papers would be considered for publication in the Symposium’s Proceedings to be subsequently published by Springer as an Ebook.

#### 【Registration】

- a. Normal delegate: 250 USD
- b. TMSJ member delegate: 225USD
- c. Student delegate: 110 USD
- d. Hybrid (online) presentation: 100 USD
- e. Accompanying person (not presenting) attending TRS 50: 175 USD

詳細は、学会 HP ([https://tmsj.or.jp/trs\\_e/50th-trs-2023/](https://tmsj.or.jp/trs_e/50th-trs-2023/)) をご覧ください。