

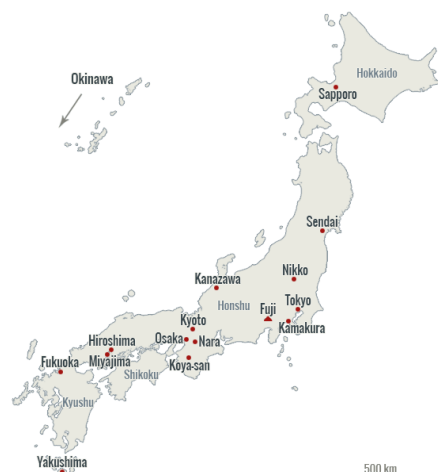
JAPAN 日本国

Mission on Advanced Technical Textiles

September 4th to 7th 2019



- Consumption of technical textile= 9.4 Bn USD in 2014 growing by 4-5% per year (*)
- 10% imported from EU producers (medical applications)
- Strong upstream fibre industry with global players
- Strong indigenous technical textiles sector
- Focus on R&D intensive high-end technical textiles products



(*) Source Gherzi Analysis- Final report Oct. 2016

OBJECTIVES OF THE MISSION

The mission consists in meetings with relevant Japanese stakeholders in the technical textile sector as well as in the participation to the International Symposium in Nara.

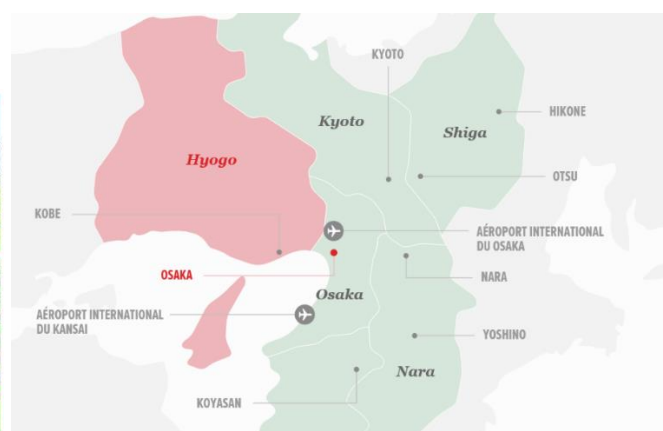
During the mission, several activities will be carried out including conferences by EU-TEXTILE2030 partners, visits to research facilities, meetings with companies and relevant stakeholders.

The objectives are :

1. To promote research activities in Europe related to advanced technical textile materials to Japanese companies and research centers.
2. To establish technological partnerships between research institutes/technological centers.
3. To establish collaboration partnerships between Japanese and EU companies: both for commercial or technological purposes.
4. To open new markets for European SMEs.

PARTICIPANTS

Cluster's managers from EU-TEXTILE2030 and clusters' members (SMEs or Research centers).



PROGRAMME (subject to modification)

Arrival on September 3rd in Osaka

DAY 1/4 - Wednesday, September 4th - OSAKA	
MORNING	Meeting with TEIJIN FRONTIER – visit of the showroom and presentation of the latest innovations TEIJIN FRONTIER : business entity involved in the integrated manufacture and sales of fibers, from fibers and yarns to fabric and final products- www2.teijin-frontier.com
AFTERNOON	Meeting with KURARAY, TOYOBO and TORAY – presentation of their latest innovations KURARAY : synthetic high performance fiber producer (Vectran®, Kuralon®) – www.kuraray.com TOYOBO : high performance fiber producer (Zylon®)- www.toyobo.co.jp TORAY : fibers and textiles, carbon fiber composites materials - www.toray.com

In Osaka, travel to one place to another either walking or by public transportation & taxis.

DAY 2/4 - Thursday, September 5th - OSAKA	
MORNING	Meeting with MIZUNO – innovations in smart textiles for sport & leisure activities MIZUNO : manufacturer of sports equipment and sportswear for golf, tennis, baseball, volleyball, football, running, rugby, skiing, cycling, judo, table tennis, badminton, boxing and athletics.
AFTERNOON	BtoB meetings with Japanese Textile SMEs
EVENING – 18 :00	Transfer to NARA by train

DAY 3/4 - Friday, September 6th - NARA	
MORNING	International Symposium (**)
AFTERNOON	International Symposium

DAY 4/4 - Saturday, September 7th - NARA	
MORNING	International Symposium
AFTERNOON	BtoB meetings with JCFA members(*)
LATE AFTERNOON	Debriefing and end of mission

(*) JCFA = Japanese Chemical Fiber Association – date still to be confirmed

**Comfort and Smart Textile and Thermal Comfort of Clothing in Nara, held by the Japan
Research Association for Textile End-Uses (**)**

60th anniversary commemorative project

On Sept. 6th & 7th

<https://cscenter.co.jp/issttcc2019/>

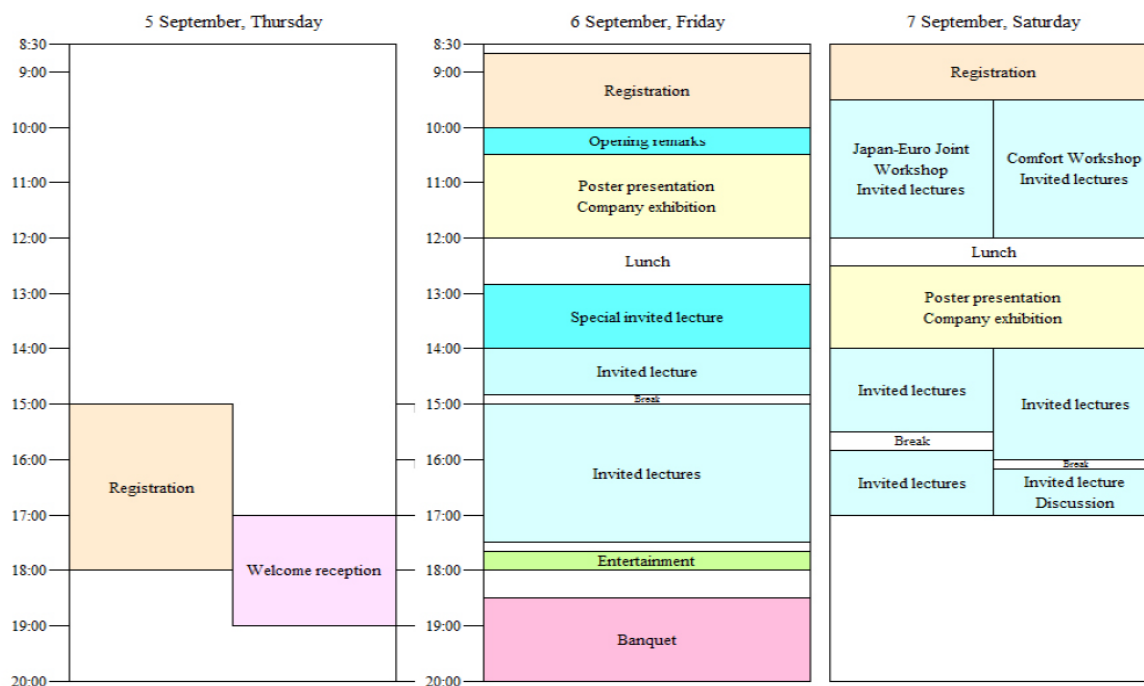
Location :

Nara Kasugano International Forum
101 Kasugano-cho, Nara-shi, 630-8212, Nara
Tel: +81 742 27 2630 Fax: +81 742 27 2630
<http://www.i-ra-ka.jp>

« The fourth industrial revolution is upon us, as keywords like AI, robots, IoT, and the cloud herald the rapid advancement of digitalization. The textile industry is also actively developing smart textiles worldwide due to dramatic advances in ICT (information and communication technology). This is expected to lead to developments across many fields, including healthcare and sports, with innovations in nursing and rehabilitation. Amidst these revolutionary changes, we have called on those who are active in fields related to smart textiles and designed this symposium as an occasion for broad, global exchange with the aim of clarifying the challenges that lie ahead in the next decade, as well as furthering developments in the field.

Tokyo Olympic Games and Paralympics will be held in 2020. Risk of heatstroke will most likely increase among the players and the audience in the hot and humid environment. Therefore, we should understand a mechanism of heatstroke occurrence and grasp a signal of heatstroke and build the prevention system and feedback. So we will hold the Comfort Workshop to learn the mechanism of heatstroke occurrence under the hot humid environment and the heatstroke prevention by optimization of design of clothing. It is expected that we can get the clue for applying a smart textile to a heatstroke prevention system in the workshop. » The Japan Research Association for Textile End-Uses.

Symposium program



Programm of the conferences

September 6th	
8:45–	Registration
10:00– 10:30	Opening Remarks Masaru Oya (President, The Japan Research Association for Textile End-Uses /Yokohama National University) Teruo Hori (Chairman of the Smart Textile Research Group /Fukui University)
10:30– 12:00	Poster Presentation and Company Exhibition
12:00– 12:50	Lunch
Special Invited Lecture	
12:50– 14:00	Hiroshi Ishiguro (Osaka University /ATR Director of Special Laboratory /ATR Fellow) “Human Robots and Smart Textiles”

Invited Lectures	
14:00– 14:50	Kelly Dobson (Google Technical Project Leader) “Soft Robotics and Smart Textile”
14:50– 15:00	Break
15:00– 15:50	Thomas Gries (Institut für Textiltechnik (ITA) der RWTH Aachen University, Leader) “Industry 4.0 and Smart Textile for Society 5.0”
15:50– 16:40	Fabian Schroeter, Christian Boekels (BMW Group) “Smart Textile in Automobile Assembly”
16:40– 17:30	Marc Frouin (BioSereniti, Coo) “Deployment of Smart Textile Applications to Medicine”
17:40– 18:00	Entertainment
18:30– 20:00	Banquet
September 7	
Japan-Euro Joint Workshop -A-	
8:30–	Registration
9:30– 9:40	Opening Remarks Kenichi Tomiyoshi (Japan Chemical Fibers Association)
9:40– 10:10	Kiyoshi Itao (WIN Representatives/Professor Emeritus of the University of Tokyo) Makoto Komazawa (WINFrontier Director/Associate Professor of Shibaura Institute of Technology) “The development of physiologically-controlled comfortable clothes for all seasons”
10:10– 11:10	UP-TEX (European cluster, France) – Virginie CANART – Last innovations in Smart Textiles in Europe, Strengths, Weaknesses and Opportunities. ENSAIT- Prof. Vladan KONCAR -

11:10– 12:00	TECHTERA (European cluster, France)
12:00– 12:30	Lunch
12:30– 14:00	Poster Presentation and Company Exhibition
14:00– 14:45	Hirokazu Sugihara-Naoki Asai (Toray Industries, Inc) “hitoe® - A Garment type wearable device –” Euichul Kwon (TOYOBO Co., Ltd.) “Flexible Conductive Material “COCOMI®” for Biological Information Measuring Clothing”
14:45– 15:30	Ryosuke Ebina (TEIJIN FRONTIER Co., Ltd) “The future outlook on wearable development of Teijin Frontier” Shuhei Ogawa (Asahi Kasei Corporation) “The availability for wearable products of stretchable cable, ROBODEN”
15:30– 15:50	Break
15:50– 16:20	Ichiro Amimori (Xenoma Co-Founder&CEO) “e-skin -Next Generation Smart Apparel-”
16:20– 16:50	Satoshi Maeda (IEC/TC124 Japan) “International Standardization for Wearable Electronics”
16:50– 17:00	Closing Remarks
Comfort Workshop -B-	
8:30–	Registration
9:30– 9:40	Opening Remarks

9:40– 10:20	Yoshimitsu Inoue (Osaka International University, Japan) “Aging and sweating function”
10:20– 11:20	George Havenith (Environmental Ergonomics Research Centre, Loughborough University) “Physiological responses of the human body and their interaction with perception and thermal comfort of clothing”
11:20– 11:30	Break
11:30– 12:00	Yasunori Kotani (School of Environment and Society, Tokyo Institute of Technology) “Brain networks connecting body and mind”
12:00– 12:30	Lunch
12:30– 14:00	Poster Presentation and Company Exhibition
14:00– 14:30	Joo-Young Lee (Seoul National Univ. Korea) “Thermal effects of graphene and its application to clothing”
14:30– 15:00	Tatsuo Amano (Niigata University) “Regulation and adaptation of human sweating”
15:00– 16:00	Jintu Fan (Hong Kong Polytechnics University) “Thermal Regulatory Clothing for Personal Thermal Management”
16:00– 16:10	Break
16:10– 16:40	Shingo Tsukada (Basic Research Laboratories Nippon Telegraph and Telephone Corporation) “Electro conductive polymer coated nanofiber textile electrodes for biomedical signal recordings”
16:40– 16:55	Panel discussion

16:55– 17:00	Closing Remarks
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*This program was updated on 4th June 2019

Language of Use : English (Simultaneous interpretation: September 6 only)

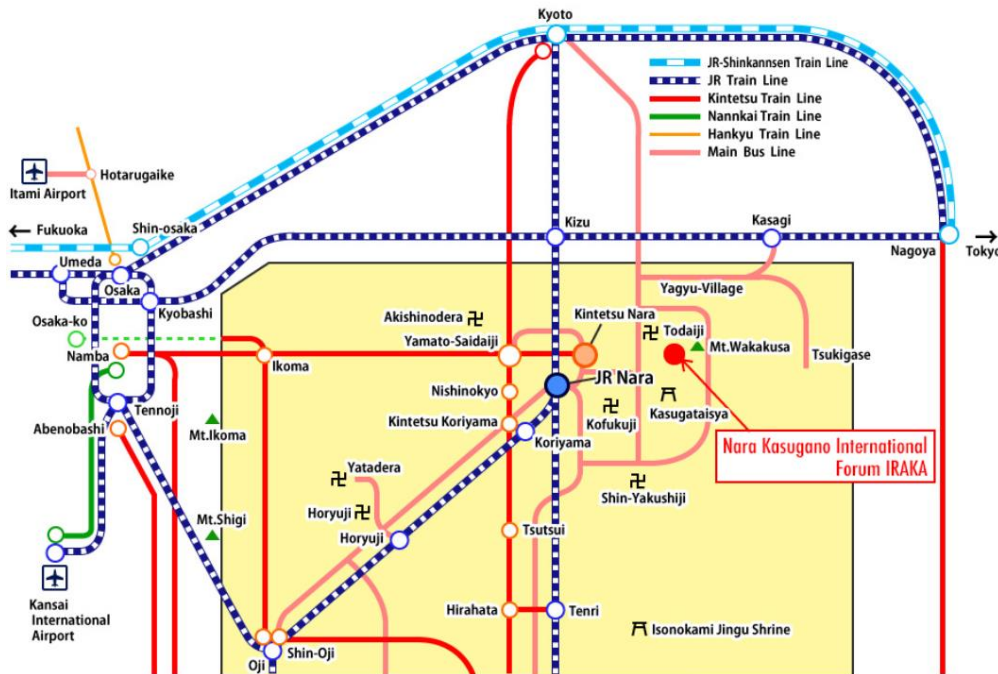
REGISTRATION

		Regular	Student
Registration fee	Early registration, on or before July 19, 2019	¥50,000	¥20,000
	Late registration, from July 20, 2019	¥60,000	¥25,000
Banquet fee		¥8,000	

Registration fees include

- Admission to all activities during the meeting
- Welcome reception (September 5)
- One abstract book
- Coffee breaks

Payment must be made in Japanese currency in the form of bank transfer or Credit card (VISA, MasterCard, AMEX or JCB). NO BANK DRAFT OR PERSONAL CHECK WILL BE ACCEPTED. All bank charges are to be borne by the remitter. Note that attendees can pay the registration fee at the venue by cash only (Japanese Yen).



Ground transportation

From Osaka (Itami) International Airport, approx. 60 min. by limousine bus bound for JR Nara Station/Kintetsu Nara Station.

From Kansai International Airport, approx. 80 min. by limousine bus bound for JR Nara Station/Kintetsu Nara Station.

Please use this convenient service, which runs every day.

Schedule: runs 15-16 times per day, each day

Fare: 2,050 Japanese Yen (one-way adult ticket between Kansai International Airport and Nara Station)



TRAVEL RECOMMENDATIONS

Flights with departure on Monday, Sept. 2nd from Europe arrive in Osaka on Tuesday, Sept. 3rd in the afternoon.

HOTELS

In OSAKA

- RIHGA Royal Hotel Osaka
 5-3-68 Nakanoshima, Kita-ku, Osaka, Osaka-fu, 530-0005, Japan
www.rihga.com/osaka
 about 142 €/ single room/ person/ night
- Mitsui Garden Hotel Osaka Premier
 3-4-15 Nakanoshima, Kita-ku, Osaka, Osaka-fu, 530-0005, Japon
www.gardenhotels.co.jp/osaka-premier/eng/

In NARA

- Nara Royal Hotel
 254-1, Hokkejicho, Nara-shi, Kansai, Kansai, 630-8001
www.nara-royal.co.jp/lang/index.html
- Hotel Fujita Nara
 47-1 Shimosanjo-cho, Nara-shi-, Nara-ken 630-8236 Japan
<https://en.fujita-nara.com/>

MISSION REGISTRATION directly to your cluster with copy to karine.wallois@clubtex.com .

This mission includes the organization of the meetings, of the networking sessions and visits in Japan but **does not include** :

- Your travelling expenses (flights, transfers, accommodation, living expenses on site, etc.)
- Your registration to the conference in Nara.

As part of this mission, you may receive **financial support from the European Union** for eligible companies. Please contact your cluster.

Conditions:

Support for SMEs eligible for European subsidies according to the EU definition: an SME / SMI is a company employing less than 250 employees, achieving either an annual turnover of less than 50 million euros, representing a balance sheet total of less than 43 million euros and a non-subsidiary company with more than 25% of a group whose total workforce exceeds 250 people. Subsidy granted in the framework of de minimis - applied by the European Commission since 18/12/13: any company, whatever its size, can claim the grant of public aid not exceeding the amount of 200 000 € per consolidated enterprise over a period of three fiscal years.

ABOUT EU TEXTILE 2030

EU-TEXTILE2030 is a consortium of 7 partners: European clusters of advanced textile materials in Spain, France, Italy, Czech Republic and Germany and associated partners from other countries such as Portugal.



ATEVAL



The activities which will be carried out are co-funded by the EU programme COSME – Clusters go to international. These activities include: 4 business trips to Colombia, South Africa, Israel and Japan/Taiwan; participation at 2 international fairs with a joint booth; creation of a EU association of advanced textile materials' clusters and the definition of its strategy in order to assure the continuation of the joint activities of the clusters.

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