

# 12th imec Handai International Symposium

November 8 (Wednesday), 2023 @SANKEN, Osaka University, Osaka, Japan

MC: Bernard Grundlehner, Mototsugu Ogura

Time(CET)	Presentation title	Speakers	Title	Affiliation
9:30-9:40	<b>Welcome word</b>	Tohru Sekino	Director	SANKEN
	<b>Welcome word</b>	Yoichi Oshima	Vice president	Tokyo Tech
9:40-10:00	<b>Keynote speech:</b>	Chris Van Hoof	Vice president	imec
10:00-10:20	<b>Keynote speech:</b> SANKEN Activity Overview, and Nanostructured Inorganic Materials for Multifunctional Application	Tohru Sekino	Director	SANKEN
<b>Session1</b>	<b><i>Nano, bio electronics, semiconductors</i></b>			
10:20-10:30	(online) 3D packaging technologies			imec
10:30-10:45	Advanced semiconductor packaging technology for automotive applications	Katsuaki Suganuma	Professor	SANKEN
10:45-11:00	The first application of semiconductor to medicine: Si-based agent	Hikaru Kobayashi	Professor	SANKEN
11:00-11:15	Ingestible sensors	Rachel Armstrong		OnePlanet
11:15-11:30	Reaction mechanisms of Sn-complex-side-chain polymer used for extreme ultraviolet lithography	Takahiro Kozawa	Professor	SANKEN
11:30-11:45	Concept for a Digital Transformation of Japanese Food System by Connecting Smart Agriculture and Personalized Well-Being Value Creation for Mental and Physical Health"	Eiichiro Kimura	Professor	Tokyo Tech
11:45-12:00	Nanowire technology accelerates chemical data collection	Kazuki Nagashima	Professor	Hokkaido Univ.
12:00-13:15	<b>Networking Lunch</b>			
13:15-13:20	<b>Welcome word</b>	Jo De Boeck	Executive vice president & CSO	imec
<b>Session2</b>	<b><i>AI, information processing</i></b>			
13:20-13:35	Online Energy Management Framework for Smart Buildings with Low-Complexity Estimators	Dafang Zhao	Assistant professor	IST
13:35-13:50	Identifying second language skills using EEG	Tsukasa Kimura	Assistant Professor	Human Science
13:50-14:00	(online) Digital twin activities	Santiago Gaitan	Senior researcher	OnePlanet
14:00-14:10	(online) Smart bathroom	Eva Wentink	Senior researcher	OnePlanet
14:10-14:40	<b>Networking coffee break</b>			
<b>Session3</b>	<b><i>Next generation computing</i></b>			
14:40-14:55	Networking spin qubits in multi-scale	Takafumi Fujita	Associate professor	SANKEN
14:55-15:05	(online) Quantum computing	Kristiaan De Greve	Sc. Director	imec
15:05-15:15	(online) Optical computing	Joris van Campenhout	Imec fellow	imec
<b>Session4</b>	<b><i>Flexible, organic, wearable electronics</i></b>			
15:15-15:30		Paul Heremans	Senior fellow	imec
15:30-15:45	Implantable electronics	Bernard Grundlehner	Project leader	imec-NL
15:45-15:55	(online) Flexible Ultrasound	Xavier Rottenberg	Imec fellow	imec
15:55-16:10	Ultraflexible Low-Noise Organic Circuits for Wearable Sensors	Takafumi Uemura	Associate professor	SANKEN
16:10-16:25	Green-light wavelength-selective organic solar cells for agrivoltaics	Yutaka Ie	Professor	SANKEN
16:25-16:30	<b>Closing remarks</b>	Hidekazu Tanaka	Vice director	SANKEN
	<b>Closing remarks</b>	Chris Van Hoof	Vice president	OnePlanet
16:30-18:00	<b>SANKEN Lab. tours for imec delegation and others</b>	<b>Nagai lab, Nogi lab</b>		
18:00	<b>Adjourn</b>			

*Sponsored by SANKEN of Osaka University, imec, imec-NL/Holst Centre, OnePlanet Research Center  
Co-hosted by Network Joint Research Center for Materials and Devices, Crossover Alliance to Create the Future with People, Intelligence and Materials*