



**MEMS SENSING &
NETWORK SYSTEM**

2022

MEMS SENSING & NETWORK SYSTEM 2022 SHOW REPORT

Jtb Communication Design

MEMS SENSING & NETWORK SYSTEM 2022 Outline

■ Date & Venue:

Jan. 26 (Wed.) – 28 (Fri.) 2022, 10:00-17:00

Tokyo Big Sight East Halls and Conference Tower

■ Online Exhibition :

Nov. 26 (Fri.), 2021 – Feb. 28 (Mon.), 2022

■ Organizer: Micromachine Center

NMEMS Technology Research Organization

JTB Communication Design, Inc.



Number of Visitors
(incl. online visitors)

23,306

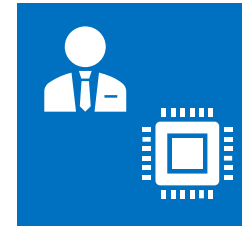
(Concurrent Events total)



Number of Visitors
(onsite @Tokyo Big Sight)

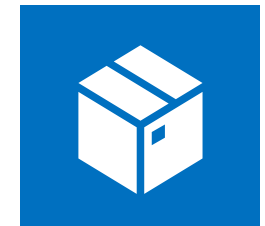
10,607

(Concurrent Events total)



Number of
Exhibitors

30



Number of
Booths

37.5

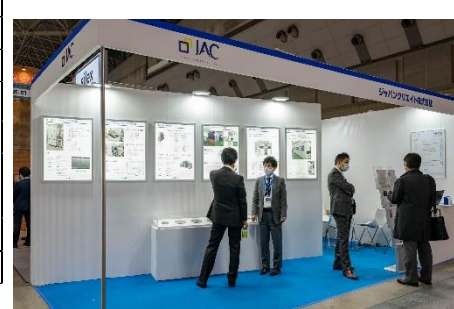
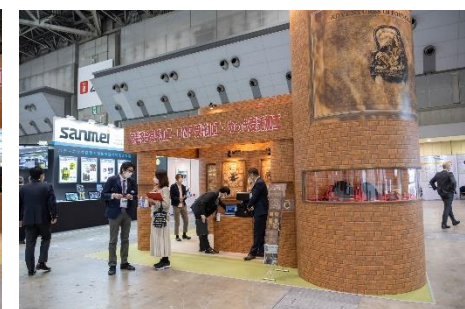
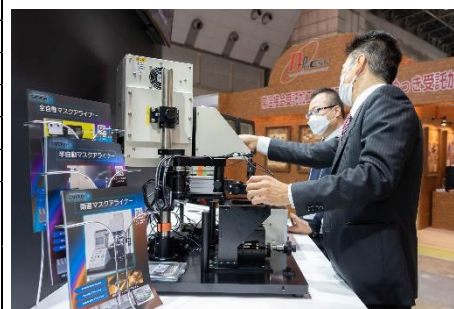
4m² count as 0.5

■ Concurrent Events (12 exhibitions)

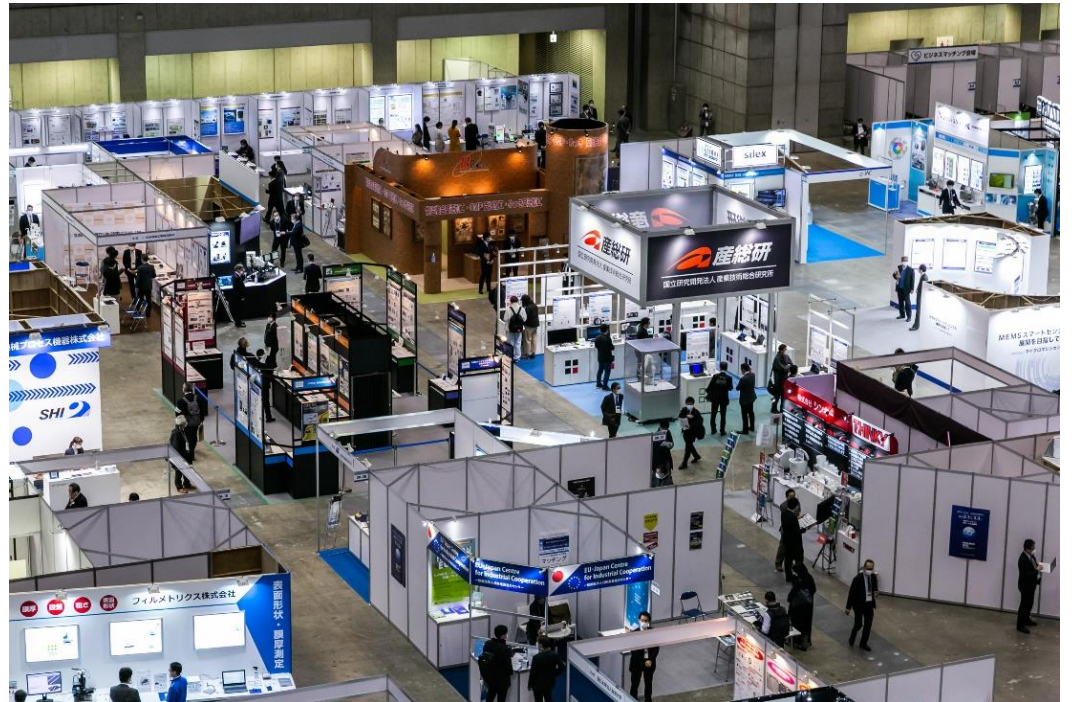


EXHIBITORS LIST

Exhibitor	Booth
ADVANCED TECHNOLOGIES	2A-02-08
AKITA Industrial Technology Center	2A-02-05
Ball Wave	2A-02-06
CITIZEN FINEDEVICE	2C-08
DENSO	2A-02-10
D-process	2E-04
Foresight	2C-05
Fujitok	2A-02-01
JAPAN CREATE	2E-01
KOSHIBU PRECISION	2C-07
Kyodo International	2E-02
MEMS CORE	2A-02-07
Micromachine Center	2G-01
MIRISE Technologies	2A-02-09
National Institute of Advanced Industrial Science and Technology (AIST) Human Augmentation Research Center	2G-04
National Institute of Advanced Industrial Science and Technology (AIST) Sensing System Research Center	
National Institute of Advanced Industrial Science and Technology (AIST) Kyushu Minimal IoT Device Prototyping Laboratory	2L-04
Sanmei	2E-07
Sensor & IoT Consortium	2A-02-03
Shibaura Institute of Technology (SIT) Computer Science Sugaya Lab	2A-02-02
SHIBAURA MECHATRONICS / SHIBAURA ELETEC	2D-07
SUMITOMO PRECISION PRODUCTS	2E-08
Taguchi Plating Industry	2A-02-04
TDC	2L-02
Tohokaken	2D-08
Tohoku University Micro System Integration Center	2D-05
Fraunhofer Institute for Electronic Nano Systems ENAS	
Fraunhofer Project Center NEMS/MEMS Devices and Manufacturing Technologies at Tohoku University	
MEMS Park Consortium	
Zuken	2A-02-00



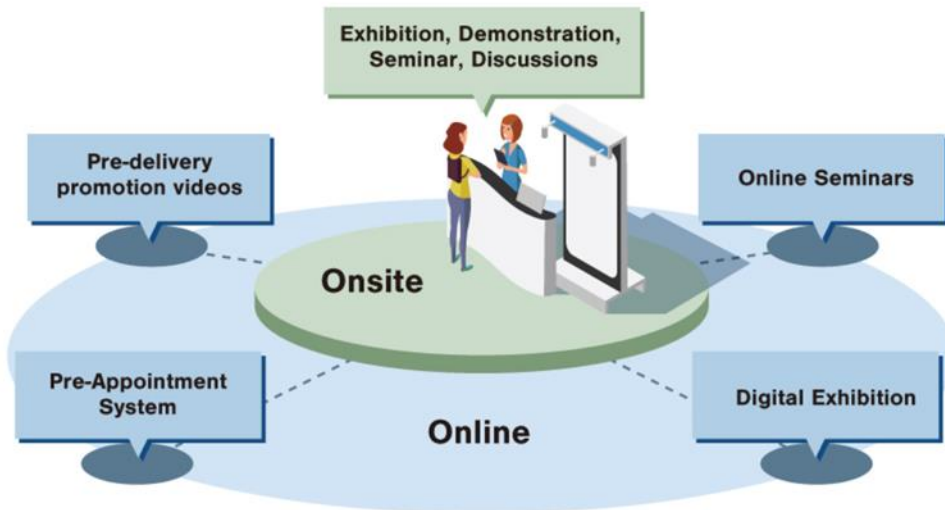
■ Highlights



■ Hybrid-style Exhibition

With in-person business event being restricted by the Corona Disaster, the exhibition was held in a hybrid format of a conventional exhibition centered on booths and online services as a measure to prevent exhibitors from losing business opportunities. The functions have been expanded since the previous show to improve the satisfaction level of online exhibitors.

Maximize each and every business opportunities.



Points of Hybrid Exhibition

Increased opportunities to research latest information

Conventional Onsite Exhibition

- Presentations at exhibitor's booths
- Face-to-Face Product Demonstration
- Provided novelties such as pamphlets
- Onsite Seminars



Digital Exhibition

Visitors:

- Collecting substantial information
- Attending Online seminars is available

Exhibitors:

- Posting of Materials & Videos of exhibited products.
- Promotion at online seminars

Increased opportunities for business discussions

Conventional Onsite Exhibition

- Face-to-Face discussions at the booths
- Networking and Serendipitous encounters at the venue

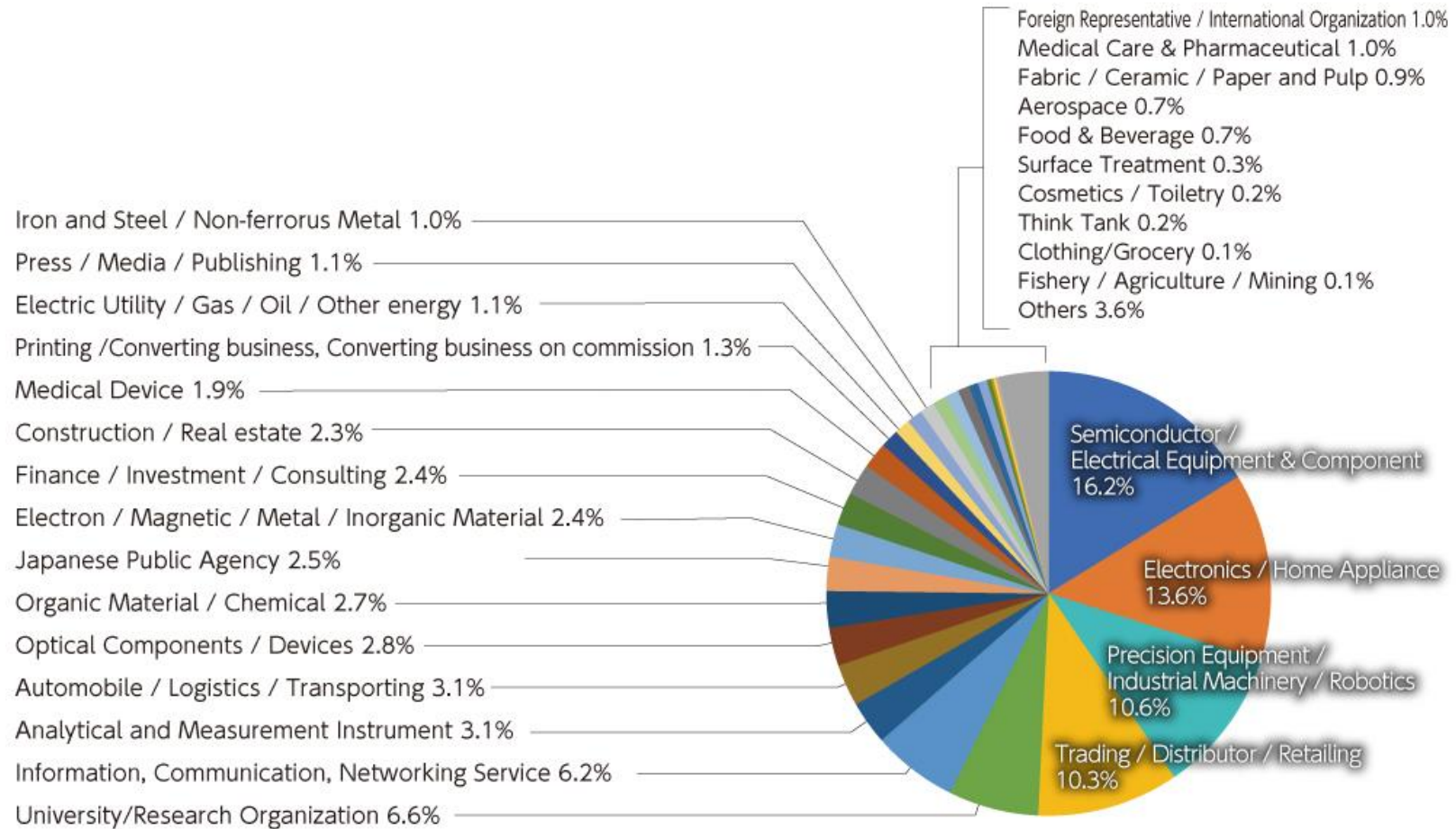


Digital Exhibition

Set up business discussions before the event with the Business Matching System

Business Matching System ▶

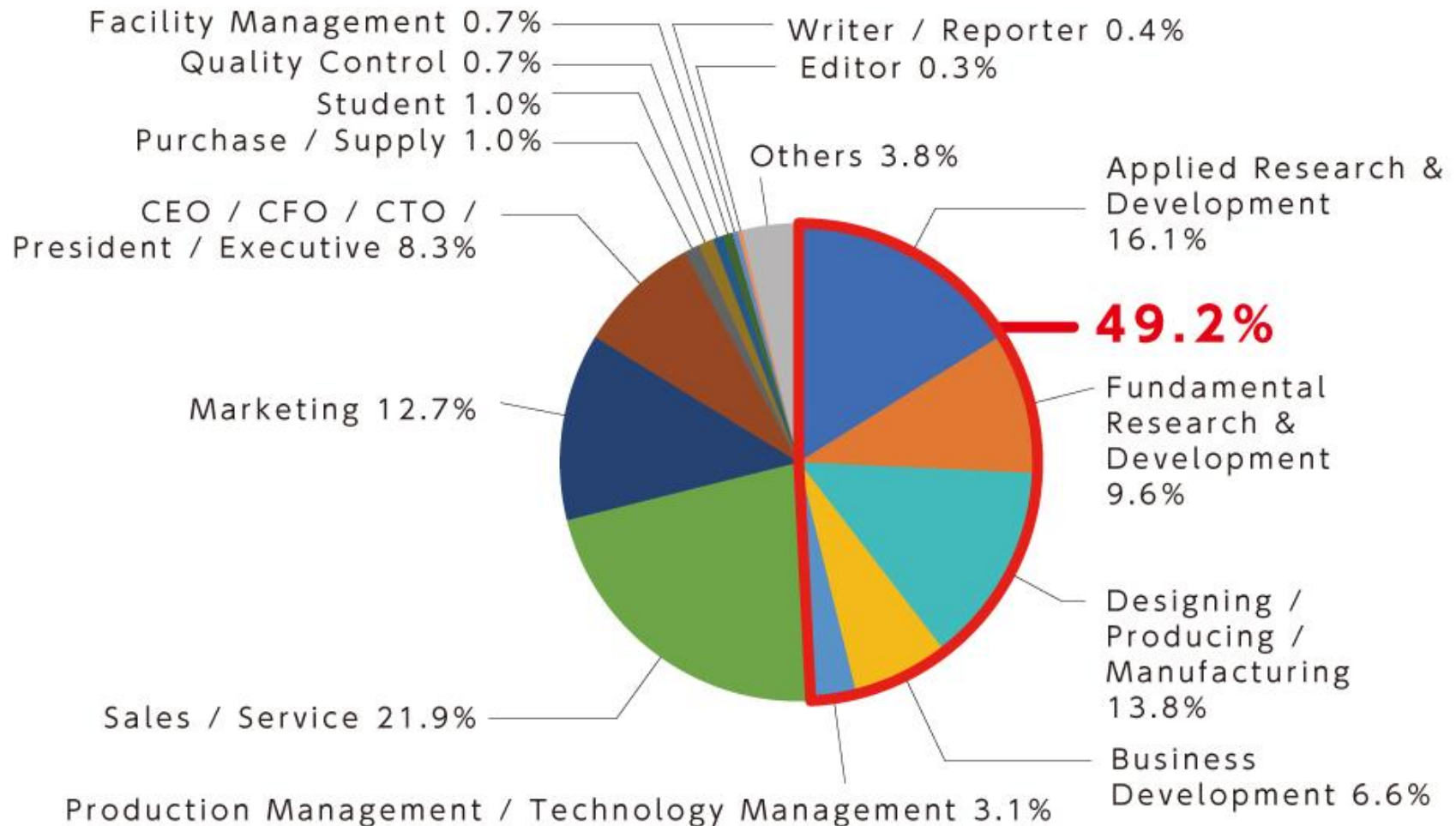
MEMS2022 Visitors Industries



Feature 1 : Visitor Industries fit the exhibitor's targeted industries.

- 1st : Semiconductor/ Electrical Equipment & Component
- 2nd : Electronics/ Home Appliance
- 3rd : Precision Equipment/ Industrial Machinery/ Robotics

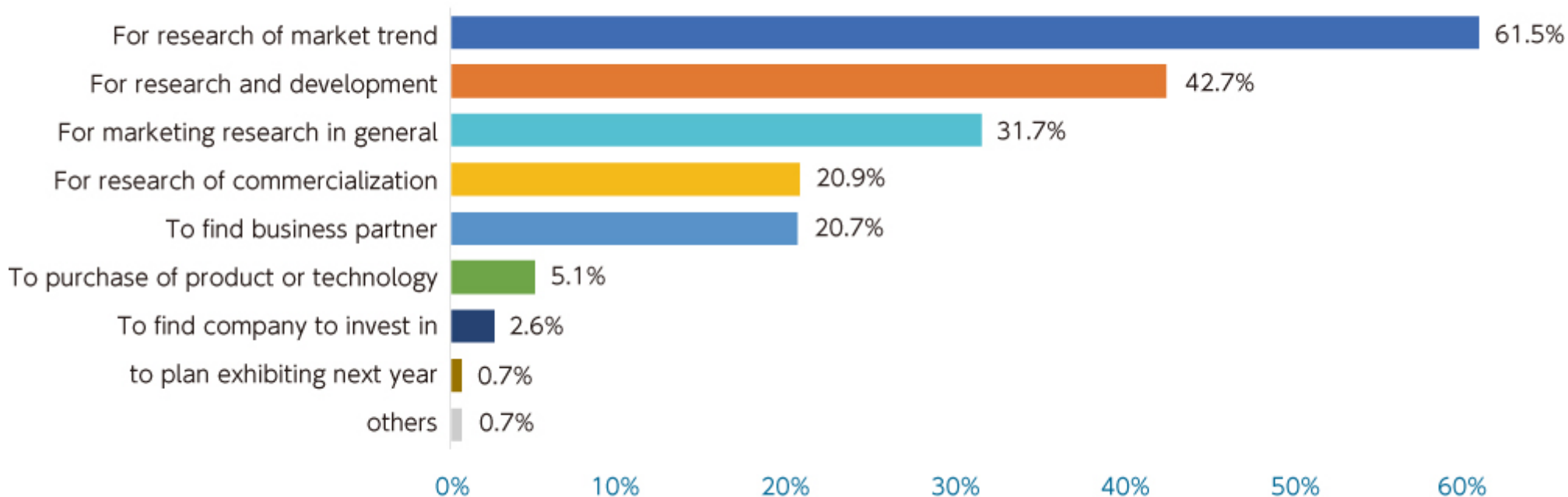
MEMS2022 Visitors Job Descriptions



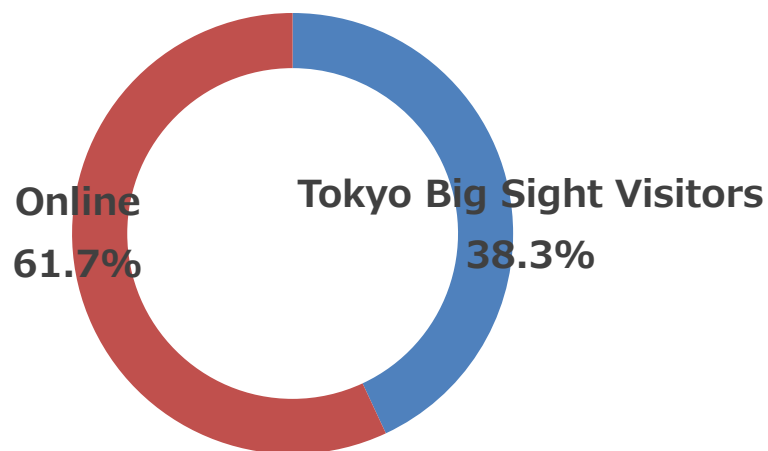
Feature 2 :

Approximately 50% of the visitors are working in R&D, Manufacture, and Design.

MEMS2022 Visitor Purpose



Ways of participation



MEMS2022 Participating companies pick up!

Semiconductor / Electrical Equipment & Component	Electronics / Home Appliance	Precision Equipment / Industrial Machinery / Robotics
ALPS ALPINE CO., LTD.	Analog Devices, Inc.	Adamant Namiki Precision Jewel Co., Ltd.
Asahi Kasei Microdevices Corporation	Applied Materials Japan, Inc.	Azbil Corporation
Japan Display Inc.	CANON ELECTRONICS INC.	DISCO Corporation
KOKUSAI ELECTRIC CORPORATION	Hitachi, Ltd	Hidelberg Instruments KK
KYOCERA Corporation	LG Japan Lab	KEYENCE CORPORATION
LAPIS Semiconductor Co., Ltd.	MEIDENSHA CORPORATION	KOKUSAI ELECTRIC CORPORATION
Murata Manufacturing Co., Ltd	Mitsubishi Electric Corporation	Mitsubishi Heavy Industries, Ltd.
ROHM CO., LTD	Ok Electric Industry Co., Ltd	Mitutoyo Corporation
Seiko Epson Corp.	Panasonic Corporation	Murata Machinery, Ltd.
Sony Group Corporation	Samsung R&D Institute Japan	Musashi Engineering, Inc.
Sony Semiconductor Solutions Corporation	Seiko Epson Corp.	NIKON CORPORATION
Sumitomo Electric Industries, Ltd.	Siemens	Samco Inc.
TAIYO YUDEN CO., LTD.	Sony Corporation	Seiko Epson Corp.
TDK Corporation	Toshiba Corporation	SHIMADZU CORPORATION
YITOA MICRO TECHNOLOGY CORPORATION	Yokogawa Electric Corporation	Sumitomo Heavy Industries, Ltd.
Organic Material / Chemical	Automobile / Logistics / Transporting	Medical Device
AICHI STEEL CORPORATION	AISIN CORPORATION	Asahi Kasei Medical Co., Ltd.
Asahi Kasei Corporation	DENSO CORPORATION	FUJIFILM Holdings Corporation
JNC Petrochemical Corporation	Honda Motor Co., Ltd.	Olympus Corporation
KYOCERA Corporation	IHI Corporation	SHIMADZU CORPORATION
Mitsubishi Chemical Corporation	Japan Aviation Electronics Industry, Ltd.	ZEON MEDICAL INC.
Mitsubishi Materials Electronic Chemicals Co.,Ltd.	KOITO MANUFACTURING CO., LTD.	Analytical and Measurement Instrument
NGK INSULATORS, LTD.	MIRISE Technologies	Azbil Corporation
SEKISUI CHEMICAL CO., LTD.	Nissan Motor Co., Ltd.	JUKI AUTOMATION SYSTEMS CORPORATION
Shin-Etsu Polymer Co., Ltd.	TOYOTA INDUSTRIES CORPORATION	KYOWA ELECTRONIC INSTRUMENTS CO., LTD.
Sumitomo Chemical Co., Ltd.	Yokohama Rubber Co., Ltd.	Mitutoyo Corporation
Information, Communication, Networking Service	Information, Communication, Networking Service	NEW COSMOS ELECTRIC CO.,LTD
Huawei Technologies Co., Ltd.	NTT Communications Corp.	RIKEN KEIKI CO., LTD.
Hitachi, Ltd	NTT DOCOMO, INC.	SIBATA SCIENTIFIC TECHNOLOGY LTD.
NIPPON ANTENNA Co.,Ltd.	Sumitomo Electric Industries, Ltd.	Toshiba Infrastructure Systems & Solutions Corp.

■ Special Symposium: MEMS Next Generation Technology Forum

■ Date & Time : January 26, 2022 10:30-12:30

■ Venue : Seeds & Needs Seminar A, East hall 3

■ Program :

10:30-11:00 **「Trends and issues of next-generation wireless communication technology that integrates real and virtual space」**

Prof. Kenichi Okada, Department of Electrical and Electronic Engineering,
School of Engineering, Tokyo Institute of Technology



11:00-11:30 **「A society advancing with MEMS technology and devices」**

Mr. Kazuhiro Yoshida, Murata Manufacturing Co., Ltd.



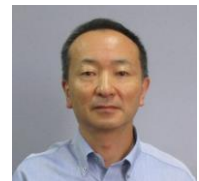
11:30-12:00 **「Sensors for acquiring useful data by taking advantage of MEMS technology in improving performance」**

Dr. Kenichi Yamashita, Deputy Director, Sensing System Research Center (SSRC),
National Institute of Advanced Industrial Science and Technology (AIST)



12:00-12:30 **「"MEMS Solutions" provided by Sumitomo Precision Group」**

Dr. Hiroshi Miyajima, General Manager, MEMS Solutions Department,
Sumitomo Precision Products Co., Ltd.



Other seminars organized by MMC:

https://unifiedsearch.jcdbizmatch.jp/nanotech2022/en/sem/nanotech_mems

■ Against COVID-19

The organizer took the following measures on site of exhibition venue to prevent the spread of COVID-19 infection.



Temperature measurement for all participants and staffs



Disinfection of fingers at the hall entrance



Announcement for the infection prevention



Ventilation in the halls notice



Sign for keeping social distancing



Frequent disinfection and taking a distance at seminar

■ Next Show information

2023.2.1 Wed. ~ 3 Fri. 10:00~17:00

Tokyo Big Sight **East** Halls & Conference Tower

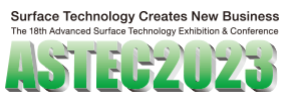
Digital Exhibition: from Dec. 1, 2022 to Feb. 28, 2023

Organizers:

Micromachine Center/ NMEMS Technology Research Organization/
JTB Communication Design, Inc.



■ Concurrent Events : **13** exhibitions



InterAqua 2023



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<https://www.optojapan.jp/mems/en/>