



NEWS RELEASE

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JIMTOF 2022 (The 31st Japan International Machine Tool Fair) Announces the Details of the Programs of the Keynote Speech, Lectures and Seminars

August 22, 2022 – JIMTOF 2022 (The 31st Japan International Machine Tool Fair), one of the largest machine tool exhibitions in the world, organized by the Japan Machine Tool Builders' Association and Tokyo Big Sight Inc., will be held at Tokyo Big Sight for six days from November 8 (Tue.) to November 13 (Sun.), 2022.

JIMTOF 2022, one of the world's largest international technology exhibitions will feature the biggest-ever scale of exhibits presented by approximately 1,000 companies, using 118,540 m² of indoor exhibition space, utilizing the entire area of Tokyo Big Sight . This year's Special Event under the theme, "Additive Manufacturing Area in JIMTOF 2022" will take place in the South Exhibition Hall.

- Pre- Registration for Admission

Admission registration will begin on Thursday, September 1, 2022 through the Official Website (www.jimtof.org).

The main program of the lectures, seminars, talk sessions, and exhibits held during the Fair is as follows:

- New Additive Manufacturing (AM) Area

The highlight of JIMTOF 2022 will be the Special Event taking place in the South Exhibition Hall bringing together AM/3D printing-related products and technologies. Additive Manufacturing is a prominent trend that is expected to grow. It is also gaining attention in the machine tool industry, where the needs are diversified, as an innovative technology within the manufacturing process that can reduce the number of parts needed, shorten the lead time, and enable high-mix low-volume production. In addition to the "Exhibit Area", a "Special Seminar Venue" will be set up in the Area. At the Special Seminar Venue, more than 15 lectures on AM/3D printing and a workshop given by the exhibitors will be held.

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- Keynote Speech and Special Lectures

On November 8 (Tue.), the first day of JIMTOF 2022, Mr. Masamichi Okada, President of Primearth EV Energy Co., Ltd., will deliver the Keynote Speech entitled, "Monozukuri – The Frontier of a Carbon-Neutral Era". On November 10 (Thu.), Mr. Takanori Isobe, Associate Professor of the Graduate School of Information Science, University of Hyogo will give a Special Lecture on "Cryptography of the 6G era". Also, on November 11 (Fri.), Mr. Chisachi Kato, Center Director and Professor of the Institute of Industrial Science, The University of Tokyo, Center for Innovative Simulation Software, will give a Special Lecture titled, "Simulation-empowered manufacturing in the Fugaku era – The present status and future perspectives of large-scale fluid flow simulations –".

- Special Exhibit

JIMTOF 2022 will introduce the advanced technologies of the industry-leading machine tool manufacturers and explore the 'Monozukuri' factory of the future. The Japan-made products with top market share created by state-of-the-art machine tools produced in the factory will be exhibited across the board, showing the roadmap to the "Future of Monozukuri".

- Special Display

JIMTOF 2022 will feature a special display of IHI's jet engine technology, a technology playing a major role in the global aviation industry. Each engine draws on its high technical capabilities, backed by history and tradition.

- Digital Contents

JIMTOF 2022 also enhances digital contents by providing an online catalog enabling the collection of pre- and post-information, an exhibitor online channel that publishes exhibitors' webinars and product introduction videos, and a matching system that enables more efficient business opportunities.

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Note to Editors:

<About JIMTOF >

A machine tool specialized exhibition, JIMTOF is regarded as one of the largest international technology exhibitions in the world, which introduces machine tools and their surrounding machines as a whole range exhibition for manufacturing companies and institutions. It also introduces the latest and most cutting-edge technologies and products in the area of machine tools. JIMTOF has been held biennially for over 50 years since 1962 and marks its 60th anniversary in 2022. In JIMTOF 2022, products of a variety of industries including Metal Cutting Machine Tools, Metal Forming Machine Tools, Machine tool accessories, Tools for machines (cutting tool & wear-resistant tool), Diamond and CBN Tools, Grinding wheels and abrasives, Gears and Gear Devices, Oil hydraulic, pneumatic and Water hydraulic machinery, Precision measuring machines and instruments, Optical measuring instruments, Testing machinery and CAD/CAM, among others, will be exhibited, and the latest information of products and technologies will be shown to the visitors. JIMTOF has an established reputation as an exhibition where visitors can obtain the latest information on a variety of products used in the manufacturing industry.

JIMTOF2022 The 31st Japan International Machine Tool Fair
Outline of Lectures and Seminars

Lectures	<p>Key Note Speech</p> <p>November 8 (Tue.) 13:30-14:30</p> <p>International Conference Room Conference Tower 7F</p>	<p>“Monozukuri – The Frontier of Carbon Neutral Era”</p> <p>Masamichi Okada President Primearth EV Energy Co., Ltd.</p> <p>Carbon Neutrality is becoming the global trend, bringing drastic transformation into our business and daily life. How Monozukuri should respond to such life-changing transformation? Through hydrogen and mobility, the frontline of workplaces will present the possibilities of our brighter future.</p>
	<p>Special Lecture ①</p> <p>November 10 (Thu.) 14:00-15:00</p> <p>Reception Hall Conference Tower 1F</p>	<p>“ 「Cryptography for 6G era」 ”</p> <p>Takanori Isobe Associate Professor Graduate School of Information Science, University of Hyogo.</p> <p>Cryptography is a fundamental technology to protect privacy and confidential information. In this talk, I will show several promising applications for beyond 5G era around 2030, and explain cryptography schemes to ensure the security for it. Besides, I will talk our strategy for standardization of our technology.</p>
	<p>Special Lecture ②</p> <p>November 11 (Fri.) 14:00-15:00</p> <p>Reception Hall Conference Tower 1F</p>	<p>“Simulation-empowered manufacturing in the Fugaku era -The present status and future perspectives of large-scale fluid flow simulations-”</p> <p>Chisachi Kato Center Director and Professor Institute of Industrial Science, The University of Tokyo Center for Innovative Simulation Software</p> <p>Supercomputer “Fugaku” started its full operation in 2021 after “Kei-computer” and there are high expectations for innovation in manufacturing using simulation. In this talk, the present status of large-scale fluid flow-simulations will briefly explained and its perspectives will also be presented.</p>
<p>Special Exhibit</p> <p>East Hall 7, New East Exhibition Hall</p>	<p>“Present and Future of Cutting-Edge Manufacturing: Machine Tools and Smart Factories”</p>	

IMEC 2022	<p>Oral Session November 10 (Thu.) 9:00-17:25 November 11 (Fri.) 9:00-17:35</p> <p>International Conference Room Conference Tower 7F</p>	<p>Overall theme “Challenge for the new era – Monozukuri revolution by digital technology”</p> <p>Various lecturers from Japan and overseas give lectures on the latest technology trends in four sessions, “Manufacturing trends towards GX”, “Manufacturing premise changing with DX”, “Innovative manufacturing technology as a game changer” and “Control/mechatronics technology to support precision” .</p>
	<p>Poster Session November 8 (Tue.) - November 13 (Sun.)</p> <p>East Hall 7 New East Exhibition Hall</p>	<p>*Personnel who give explanations from participating organizations are scheduled to be present from 13:00 to 16:00 on November 10 (Thu.) and 11 (Fri.), and from 9:00 to 12:00 on November 12 (Sat.).</p> <p>"Poster session" is held in the East Hall 7 to present the results of research related to machine tools by universities and research institutes in Japan and overseas by poster format.</p>
<p>Special Display</p> <p>South Hall 2 South Exhibition Hall</p>		<p>“History and Tradition Technology and Wisdom Power to make the impossible possible -History of Japanese jet engine development-”</p>
Seminar for Students	<p>November 12 (Sat.) 13:00-15:25</p> <p>International Conference Room Conference Tower 7F</p>	<p>“Top Seminar by Machine Tool Manufactures for Students“</p>
	<p>November 13 (Sun.) 10:00-12:20</p> <p>Conference Room 607 & 608 Conference Tower 6F</p>	<p>“ Introductory Seminar “for Students” on the Manufacturing Industry”</p>

**JIMTOF2022 The 31st Japan International Machine Tool Fair
Lectures and Seminars at AM Area**

November 8 (Tue.)	Key Note Speech	<p>“Toward the innovation of “mono-zukuri” using a metal-based additive manufacturing”</p> <p>Tatsuaki Furumoto Professor Advanced Manufacturing Technology Institute (AMTI), Kanazawa University</p>
	Special Lecture	<p>“Latest Technical Trend of 3D Printing from Europe and The US”</p> <p>Hideaki Oba Researcher Japan 3D Printing Industrial Technology Association</p>
	Special Lecture	<p>“A Practical Guide to 3D Printing”</p> <p>Kiyoshi Yamaguchi Researcher Japan 3D Printing Industrial Technology Association</p>
November 9 (Wed.)	Special Lecture	<p>“Regarding production technology which causes Game Change (Production technology required for PWT products in the future) ”</p> <p>Noriyuki Shiwaku Expert Leader (New Product and Process) Powertrain Production Engineering and Development Division Nissan Motor Co, Ltd.</p>
	Special Lecture	<p>“AM Seminar by Japan Machine Tool Builders’ Association”</p>
November 10 (Thu.)	Special Lecture	<p>“Developments and Prospects of Next-Generation Industrial 3D Printers – Laser Beam System -”</p> <p>Hideki Kyogoku President, TRAFAM Fundamental Technology for Next Generation Research Institute Professor, Kindai University</p>
	Special Lecture	<p>“Development of next-generation industrial 3D printers and future trend – Electron beam type”</p> <p>Akihiko Chiba Professor Institute for Materials Research, Tohoku University</p>

November 10 (Thu.)	Special Lecture	“Development of electron beam metal 3D printer” Hironobu Manabe General Manager Advanced & Fundamental Technology Center JEOL Ltd.
	Special Lecture	“Development of EB/PBF 3D Printer (II)” Junji Miyata TECHNICAL ADVISOR TADA ELECTRIC CO., LTD.
	Special Lecture	“Development of a laser DED metal 3D printer” Haruhiko Niitani Executive Vice President and CTO NIDEC MACHINE TOOL CORPORATION
November 11 (Fri.)	Special Lecture	“Emergent Circular Design and Digital Manufacturing” Hiroya Tanaka Professor / Director Faculty of Environment and Information Studies, Keio University / Digital Manufacturing and Design Research Center for Emergent Circularity, Keio University Global Research Institute
	Special Speech	“How to lower AM costs of final parts” Chiyo Nagano Expert, Additive Manufacturing TÜV SÜD Japan Ltd.
	Special Speech	“Workflow from introduction of AM machine to process design for final parts manufacturing.” Chiyo Nagano Expert, Additive Manufacturing TÜV SÜD Japan Ltd.
November 12 (Sat.)	Special Lecture	“Difference between cutting and Additive Manufacturing ~Material maker, machine maker, service bureau compared~” Toshiyuki Sawakoshi Managing Director Japanese Society of Additive Manufacturing
	Special Lecture	“Novel Soft Manufacturing Developed by 3D Printing” Hidemitsu Furukawa Professor, PI of SWEL Soft & Wet mater Engineering Lab, Yamagata University
November 13 (Sun.)	Special Lecture	“Recent Trend and Perspective on Metal Additive Manufacturing” Hideki Kyogoku President, TRAFAM Fundamental Technology for Next Generation Research Institute Professor, Kindai University