

The Japanese Society of Agricultural Machinery and Food Engineers (JSAM)

The JSAM Symposium "25th Techno Festa".

～ Food problems caused by the spread of the COVID-19

The Techno Festa, which started in 1996 with the aim of improving technical skills and stimulating socialization and friendship among of engineers and researchers in the field of agricultural machinery, is now in its 25th year. However, since the beginning of this year, the spread of the new corona virus has greatly restricted the behavior and economic activities of all humankind, not to mention the fields of agriculture and food. For this reason, this society has cancelled many events that had been planned in order to prevent the spread of the virus.

Among the many measures that have proven to be effective, the Techno Festa symposium will also be held online as a means of preventing the spread of infection.

The theme of the conference is "Food Problems Due to the Spread of COVID-19 Infection" and we are looking forward to welcoming many people from the private sector, government and academia at this year's symposium.

Date and time: December 4, 2020 (Friday) 9:00 a.m. to 5:30 p.m.

Organized by: The Japanese Society of Agricultural Machinery and Food Engineers (JSAM)

Organizing Committee Chairman: TOMITA Muneki, NARO*

Cooperated by: Institute of Agricultural Machinery, NARO*

* NARO: The National Agriculture and Food Research Organization

Program: (tentative)

I Opening remarks 9:00～9:15

KONDO Naoshi, President, The Japanese Society of Agricultural Machinery and Food Engineers (Kyoto University)

KOBAYASHI Ken, Director, Institute of Agricultural Machinery, NARO

II Keynote Speech 9:15-10:15

Food problems due to the spread of the COVID-19 (Tentative Title)

HIBI Eriko, Director, Food and Agriculture Organization of the United Nations (FAO) Liaison Office in Japan

III JSAM Development Award Speech 10:30-14:00 (12:00-13:00 lunch break)

1) Special Development Award

Development of Rice Transplanter NW6S/8S to Help Reduce Material Costs: HIGUMA Toshiyuki, Kubota Corporation

2) Development Award

Development of a semi-automatic vegetable transplanter for riding type and two-row planting: YAMANE Nobuhiro, ISEKI & CO., LTD

Electric remote-control work machine "Smamo": KATCHI Shigeharu, Sasaki Corporation

GNSS Steering Assist System SE-Navi: KATO Shotaro, Mitsubishi Mahindra Agricultural Machinery Co.,Ltd.

The trump card for expanding the scale of green onion cultivation "green onion harvester HL10": OKAMOTO Keiji, YANMAR AGRIBUSINESS Co., Ltd

IV Sectional Meetings 14:15-17:15 (Part 1: 14:15-15:45, Part 2: 15:45-17:15)

*All three subcommittees are divided into 2 parts. There will be lectures on related topics, and then discussions on the technical issues, their solutions, and development.

[Part I] 14:15-15:45

1-1. Information sharing Systems Subcommittee

Development of new technology to improve intellectual productivity of agriculture

(1) AI & Data-driven agriculture: NISHIHARA Ryu, PricewaterhouseCoopers Aarata LLC

(2) Approach to Iseki's agricultural ICT: TAKAHASHI Tsutomu, ISEKI & CO., Ltd.

(3) Building of Common Agricultural Vocabulary to facilitate data integration in agricultural domain: TAKEZAKI Akane, Institute of Agricultural Machinery, NARO

1-2. Agricultural Machinery Subcommittee

Exploring the future of the Agricultural Machinery Subcommittee created by the fusion of different fields and industries

(1) Approach for Coldchain Technology: NISHIMOTO Motomi, Daikin Industries, Ltd.

(2) Factory Automation and Agriculture Automation: CHIKUI Taketo, Koganei Corporation

(3) Our transport equipment and our future direction: HIRAMI Tsuyoshi, Dainichi Hanzo Co.,Ltd.

(4) Migakiya Syndicate activity report: TANAKA Hisato, The Tsubame Chamber of Commerce and Industry

1-3. Food Chain Subcommittee

Latest technologies underpin the food chain in the with- and post-COVID-19 world

(1) How happen the "Global Plastic Freeze Problem" on the food chain field?: HANAICHI Takashi, FUTAMURA CHEMICAL CO., LTD.

(2) Growing demand for frozen foods and new R&D trends: ANDO Yasumasa, Food Research Institute, NARO

(3) Viable bacteria count monitoring system "ELESTA PixeeMo®" is enabled drastic inspection cost reduction under HACCP operation: ENJOJI Takaharu, AFI Corporation

[Part 2] 15:45-17:15

2-1. Automatic Driving Subcommittee

Smart Mower

(1) Unmanned autonomous driving with a mower equipped with a MICHIBIKI receiver and control unit: HANAWA Masanori, EAMS ROBOTICS Co., Ltd.

(2) Robo-Mower MR-300: MIKUNI Takuro, WADO Co., Ltd.

(3) Quasi-zenith positioning satellite System and Grass Mower Spider in Smart Agricultural Substantiation: TSUMAGARI Teruki, SoftBank Corp.

2-2. Biological Resources Subcommittee

Effective utilization and high value addition of agricultural waste

(1) Development of compact furnace for rice husk combustion: YAMASHITA Katsuya, Shizuoka Seiki Co., Ltd.

(2) Utilization of combustion heat of biomass derived from livestock manure: HAMADA Akiyoshi, Hamada Manufacturing Co., Ltd

2-3. International Exchange Subcommittee

Growth and gap of farm mechanization and precision farming in Thailand

(1) Growth and gap of farm mechanization and precision farming in Thailand: Khwantri Saengprachathanarug, Khon Kaen University, Thailand

V. Closing remarks 17:15-17:30

Organizing Committee Chairman: TOMITA Muneki, NARO

Registration: Apply online at the website (Applications will be accepted from Wednesday, November 4)

https://c-cloud.co.jp/homepages/25th_TechnoFes/home

Number of participants: up to 250 (first-come-first-served basis)

Fee: General Member 2,500 Yen / Non-member 3,500 Yen / Students Free / Overseas Participants Free

Note: Honorific titles omitted. No recording, or photography is allowed in the sessions. Please note that the lecturer and the program may be subject to change or the textbook may not be distributed due to unavoidable circumstances. The International Exchange Subcommittee will be in English, other Subcommittees will be in Japanese. There will be no English interpretation or subtitles for a Japanese presentation.