

### Introduction

With the celebration of the 50th anniversary of the foundation last year, the World Federation of Engineering Organizations (WFEO) launched World Engineering Day on March 4 with the aim of increasing public awareness of the activities of engineers and contributing to the promotion of the SDGs. In response, commemorative events would be held around the world.

The Japan Federation of Engineering Societies (JFES) will hold a celebrative symposium on March 5 under the patronage of Science Council of Japan (SCJ), The Engineering Academy of Japan and the related societies. In the symposium, JFES will explore various possibilities for the future of engineering that contributes to sustainable growth. In each session, a short speech by the panelists will be held, followed by a dialogue exchange on each theme. The aim is to discuss the future of engineering not only with engineering experts, but also with people in a variety of fields.

WFEO is the international organization for the engineering profession, that founded in 1968 under the auspices of UNESCO and its head quarter is located in UNESCO building in Paris.

The UNESCO Executive Board adopted a draft decision on 17 April in plenary session, recommending that the General Conference in November 2019 “decide to proclaim 4 March of every year World Engineering Day for Sustainable Development.”

**Date:** March 5th, 2020

**Venue:** Sanjo Conference Hall in The University of Tokyo  
7-3-1 Hongo, bunkyo-ku, Tokyo Japan

**Entry Fee:** ¥2,000

### Opening Remarks & Greetings 10:00 a.m. – 10:30 a.m.

Kikuo Kishimoto, Pres. of JFES

Kenichi Tukahara, Chair of SCJ WFEO committee

Michiharu Nakamura, Deputy Pres. of The Engineering Academy of Japan

Messages from UNESCO and WFEO(Video)

### Morning Session

#### Part 1: Future Education of Engineers 10:40 a.m.– 12:10 p.m.

**Moderator:** Soichi Hirose, Prof. of Tokyo Institute of Technology (Tokyo Tech)

**Panelists:** Jeffrey Scott Cross, Prof. of Tokyo Institute of Technology (Tokyo Tech)

Mitsuru Senda, Board Chairman, Environment Design Institute,

Former Pres. of Architectural Institute of Japan

Tetsuya Nagasaka, Pres. of Eight-University Engineering Association,

Prof. of Tohoku University

Daisuke Baba, Industry-University Collaboration Officer,

Ministry of Economy, Trade and Industry

Satoko Fukahori, Prof. of Kyushu University, Senior Visiting Researcher of

National Institute for Educational Policy Research

Tsutomu Morita, Principal of Showa Daiichi Gakuen High School

**Lunch Time** 12:10p.m.– 13:30p.m.

### Afternoon Session

#### Part 2: Roles and Future of Engineers 13:30p.m.– 15:00p.m.

**Moderator:** Masahito Takagi, Board Director of JFES, Vice-Pres. of Council on CPD

**Panelists:** Reiko Amano, Auditor of National Institute for Environmental Studies

Mika Hattori, PS Network Business Promotion Division, NEC

Botaro Hirosaki, Former Senior Executive Vice President of NEC,

Former Vice-Pres. of JFES

Jun Fudano, Prof. of Tokyo Institute of Technology (Tokyo Tech)

Hiroshi Maruyama, PFN Fellow of Preferred Networks

**Coffee Break** 15:00p.m. – 15:20p.m

**Part 3: Future of Engineering** 15:20p.m. – 16:50p.m.

**Moderator:** Akira Sudo, Managing Director of COCN, Vice-Pres. of JFES

**Panelists:** Syunsuke Ikeda, Adviser of CTI Engineering, Professor Emeritus of Tokyo Tech  
Yoh Sasaki, Prof. of Waseda University

Michiharu Nakamura, Adviser of JST, UN 10-Members Group for SDGs

Shinobu Yoshimura, Chair of SCJ committee on Comprehensive Synthetic Engineering,  
Vice-Pres. of The University of Tokyo

**Closing Remarks** 16:50p.m. – 17:00 p.m.

Toshimitsu Komatsu, Vice-Pres. of JFES

**Networking Event** 17:15 p.m. – 19:00 p.m.

**Venue:** Kadoya-Sanjo-Tei, Sanjo Conference Hall B1

**Entry Fee:** ¥6,000

**Organizer:** The Japan Federation of Engineering Societies (JFES)

**Co-Organizers:**

Members, Organization members and Support members of JFES as below;

Japan Society for Safety Engineering, Institute of Image Information and Television Engineers, Japan Institute of Electronics Packaging, Japan Society of Applied Physics, Society of Chemical Engineers, Japan, Visualization Society of Japan, The Resources Processing Society of Japan, Society of Environmental Instrumentation Control and Automation, Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, Japan Institute of Light Metals, Society of Instrument and Control Engineers, Society of Polymer Science, Japan, Japan Society of Color Material, Mining and Materials Processing Institute of Japan, Institute of Systems, Control and Information Engineers, Society of Automotive Engineers of Japan, Inc., Japanese Geotechnical Society, Information Processing Society of Japan, Illuminating Engineering Institute of Japan, Catalysis Society of Japan, Japanese Society for Artificial Intelligence, Japan Society for Precision Engineering, Japan Petroleum Institute, Society of Fiber Science and Technology, Japan, Turbomachinery Society of Japan, The Technical Association of Refractories, Japan, Institute of Electrical Engineers of Japan, Institute of Electrical Installation Engineers of Japan, Institute of Electronics Information and Communication Engineers, Japan Society of Civil Engineers, Japan Society for Abrasive Technology, Japan Institute of Energy, Acoustical Society of Japan, Society of Sea Water Science Japan, Japan Association for Fire Science and Engineering, Gas Turbine Society of Japan, Imaging Society of Japan, Japan Society of Mechanical Engineers, Japan Institute of Metals, Japan Industrial Management Association, Japan Society for Computational Engineering and Science, Atomic Energy Society of Japan, Architectural Institute of Japan, High Pressure Institute of JAPAN, Japanese Society for Engineering Education, Japan Society for Aeronautical and Space Sciences, Society of Rubber Industry, Japan, Japan Concrete Institute, Japanese Society for Multiphase Flow, Society of Materials Science, Japan, Magnetics Society of Japan, Japan Society for Simulation Technology, Society for Biotechnology Japan, Adhesion Society of Japan, Society of Plant Engineers Japan, Japan Society of Naval Architects and Ocean Engineering, Society of Materials Engineering for Resources of JAPAN, Japan Society for Technology of Plasticity, Japan Foundry Engineering Society, Japanese Society for Science of Design, Iron & Steel Institute of Japan, Heat Transfer Society of Japan, Japanese Society of Tribologists, Combustion Society of Japan, Japanese Society for Non-Destructive Inspection, Japan Society for Composite Materials, Japan Institute of Marine Engineering, Japan Welding Engineering Society, Japan Society of Fluid Mechanics, Japan Society of Refrigerating and Air Conditioning Engineers, Society of Rheology, Japan, Robotics Society of Japan, Surface Finishing Society of Japan, Japan Society of Corrosion Engineering, Society of Exploration Geophysicists of Japan, Japan Society of Polymer Processing, Japan Society of Powder and Powder Metallurgy, Japan Welding Society, Laser Society of Japan, Eight-University Engineering Association, Japan Academic Association for Copyright Clearance, CTI Engineering Co., Ltd., Teijin Limited

**Patronage Organizations:**



Science Council  
of Japan



The Engineering  
Academy of Japan



The World Federation of  
Engineering Organizations

Japanese National Commission  
for UNESCO