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Science Council of Japan
The Japan Federation of Engineering Societies

WECC2015 Vision

- In 21st century, people expect to create sustainable society where they can live in safety and security with rich welfare as well as material wealth, as a basis for fostering diverse culture.
- For this purpose, it is required to further improve, not only social asset technologies related to water/food, energy, transportation, information etc., but also operational tools such as institutional systems which are use to support our social life, or social technology science with an expanded view on social receptivity and wellbeing.
- This is the social mission assigned to engineers in 21st century, and fulfillment of this mission will require not only innovation of each advanced technology, but also integration of technologies to advance design technologies for optimizing total system of society, and reinforcement of science-driven innovation capability which is pursued from integrated perspectives of natural science and social science.
- From the standpoint of the 21st century's social mission and challenges of engineering, WECC2015 will assemble industrial circles, academic societies, governmental authorities, and public citizens from around the world, and will contribute to consolidate the innovation networks to link intellectual creation and societal value clarification.

Concept of Program Design

- Program design aims to provide a balanced perspective between local and global interests, with focuses on innovation required for achieving sustainable growth and advances in fundamental technologies required for the innovation.
- Participation from Government-Academia-Industry-NPO
 - Government: International + National + Municipalities
 - Academia: Engineering+ Medical + Agriculture + Economy +Society
 - Industry: Large enterprises + medium and small firms
 - Public: Dialogue with citizens and children/youth
- World Engineering Convention in 2015 is to be held as World Engineering Conference and Convention (WECC2015) based on the concept of Engineering for Society. It places an emphasis on the both sides of;
 - Innovation which engineering aims to achieve
 - Presentations of technologies made by engineers and researchers for establishing the basis of the innovation

Main Program

Nov 28 (Sat)	Nov 29 (Sun)	Nov 30 (Mon)	Dec 1 (Tue)	Dec 2 (Wed)	Dec 3 (Thu)		Dec 4 (Fri)
WFEO-TSCs	WFEO-TSCs	Opening Ceremony & Plenary Session	Parallel Sessions	Parallel Sessions		WFEO Executive Council	WFEO General Assembly
WFEO-TSCs	WFEO-TSCs WECC Regist.	Parallel Sessions	Parallel Sessions	Parallel Sessions & Closing Ceremony	Tech. Visit	WFEO Executive Council	WFEO General Assembly
	WECC Get together		WECC Banquet + GA Gala Dinner	=			

Social Program

Nov 28 (Sat)	Nov 29 (Sun)	Nov 30 (Mon)	Dec 1 (Tue)	Dec 2 (Wed)	Dec 3 (Thu)	Dec 4 (Fri)
Enginee	ering Cafe					
	1	Tour	Tour & Visit			

Note: Session design may be flexibly modified

Program and Theme (Tentative, as of September 2012)

Engineering: Innovation and Society

Innovation for Sustainable Growth and Societal Development

- I-1 Lessons learned from Great East Japan Earthquake, Recovery and Rehabilitation
- I-2 Green Innovation (Simultaneous Pursuit of Environment, Energy, Economy)
- 1-3 Life Innovation (Life Science, Engineering for Medical Care)
- 1-4 Improvement of Industrial Competition Capability
- I-5 Improvement of Science-driven Innovation and Human Development/Education

Engineering Research and Development for Innovation

- II-1 Machinery (Vessel/Ocean, Aviation/Space, Gauging/Control, Acoustic etc.)
- II-2 Information/Electron (Communication, Computer Science/IT etc.)
- II-3 Chemistry/Material (Applied Science, Chemical Engineering, Metal, Ceramics, Polymer etc.)
- II-4 Construction (Civil Engineering, Architecture, Urban Engineering etc.)
- II-5 Resource/Energy (Power Systems, Energy Conversion & Materials, etc.)
- II-6 Physics (Applied Physics, Earth Planetary Physics, Geophysics etc.)
- II-7 Life Science (Agriculture, Medial Science, Pharmaceutics, Biology, Biochemistry, Food, etc.)

Realizing Origin of Engineering for Society

- III-1 Social Mission of Engineering
- III-2 Reliability of Technology and Risk communication