

## Outline

### Conference Date: November 29 – December 2, 2015

- **WFEO General Assembly, Executive Council and Committee Meetings:** November 28 - December 4
- **Technical Visits:** December 3

### Theme: Engineering: **Innovation and Society**

### Venue: **Kyoto International Conference Center**

Takaragaike, Sakyo-ku, Kyoto, 606-0001 Japan  
Tel: +81-75-705-1234



## Schedule at a Glance

### Main Program

Nov 28 (Sat)	Nov 29 (Sun)	Nov 30 (Mon)	Dec 1 (Tue)	Dec 2 (Wed)	Dec 3 (Thur)	Dec 4 (Fri)
Registration	Registration	Registration	Registration	Registration		
WFEO-STCs	WFEO-STCs	Kyoto Program	Opening Ceremony & Conference Plenary Lecture 1, 2, 3	Conference Plenary Lecture 7	Tech. Visits	WFEO General Assembly
			Parallel Sessions	Parallel Sessions		WFEO General Assembly
WFEO-STCs	WFEO-STCs	Kyoto Program	Conference Plenary Lecture 4, 5, 6	Parallel Sessions		WFEO General Assembly
			Parallel Sessions	Summary and Concluding Remarks of the Sessions		WFEO New Executive Council
	Get together			Closing Ceremony		
				Banquet		WFEO Gala Party

### Technical Exhibition

Nov 28 (Sat)	Nov 29 (Sun)	Nov 30 (Mon)	Dec 1 (Tue)	Dec 2 (Wed)	Dec 3 (Thur)	Dec 4 (Fri)
		Exhibition				

### Social Events

Nov 28 (Sat)	Nov 29 (Sun)	Nov 30 (Mon)	Dec 1 (Tue)	Dec 2 (Wed)	Dec 3 (Thur)	Dec 4 (Fri)
		Introduction of Traditional Arts and Technology				
		Visit to Heart of Kyoto and Sightseeing Tour				
Engineering Cafe						

### Contact:

**WECC2015 Organizing Committee**  
**The Japan Federation of Engineering Societies**

Morito-Kinenkan, Tokyo University of Science 4-2-2 Kagurazaka, Shinjuku-ku, Tokyo, 162-0825 Japan

Secretariat for WECC2015

E-mail: [wecc2015-reg@congre.co.jp](mailto:wecc2015-reg@congre.co.jp)

As of February 2015

# Welcome to **Kyoto** **WECC2015**

World Engineering Conference and Convention 2015

## First Circular

## Engineering: Innovation and Society

November 29 – December 2, 2015

WFEO General Assembly, Executive Council and Committee Meetings: November 28 - December 4  
Technical Visits: December 3

Kyoto International Conference Center, Kyoto, Japan



Science Council  
of Japan



The Japan Federation  
of Engineering Societies



World Federation  
of Engineering Organizations



United Nations  
Educational, Scientific and  
Cultural Organization

<http://www.congre.co.jp/wecc2015>



World Engineering Conference and Convention 2015 (WECC2015)

# Call for papers

The importance of Engineering in society and on the environment is growing year by year. From the perspective of “Engineering for Society and Engineering in Society”, WECC2015 will focus on both “Science & Technology driven innovation” and “Engineering research & development for innovation”. Reflecting on this approach, the overall conference theme is “Engineering: Innovation and Society”.

Engineers from all over the world will gather in Kyoto, Japan for WECC2015 from November 29 to December 2, 2015. The programming committee of WECC2015 would like to invite engineers, researchers and other professionals from around the world to submit their papers for the purpose of sharing their knowledge, experiences and successful research under the banner of “Engineering: Innovation and Society”.

## Specific Topics and Technical Tracks

The conference will be accepting general submissions on specific topics listed in nine tracks. Fundamental research that is far from practical use is not the focus of WECC2015. Specific topics of interest include, but are not limited to:

### Track 1: Resilient Infrastructure for Society

- 1-1 Reconstruction innovation
- 1-2 Land/city conservation and disaster mitigation
- 1-3 Robot technology used at disaster sites and its operating system
- 1-4 Strengthening national interests and creating new industries using big data
- 1-5 Creating a resilient economy
- 1-6 Resilience in manufacturing and energy sectors

### Track 2: Energy for a Sustainable Society

- 2-1 Wider applications for fossil resources: Conventional and non-conventional resources
- 2-2 Power generation technology
- 2-3 Renewable energy sources and energy storage technologies
- 2-4 Energy saving and efficient energy use
- 2-5 Energy management
- 2-6 Smart grid, smart community

### Track 3: Natural Resources for a Sustainable Society

- 3-1 Satellite-based technology, land and marine survey, resource investigation, disaster monitoring
- 3-2 Sustainable supply chain management from natural resources to chemicals and metallic/non-metallic materials and their life cycle assessment
- 3-3 Water resource and environmental management
- 3-4 Advanced recycle technology
- 3-5 Process technology for sustainability
- 3-6 Agricultural machinery and food engineering, agricultural mechanization, agricultural structures

### Track 4: Urban Development and Infrastructure

- 4-1 Environmental friendly and sustainable cities & housing
- 4-2 Net zero energy building technology, new air-conditioning and sanitary technology, green building technology, water utilization technology
- 4-3 Measuring, control, security technology, robot technology
- 4-4 Next generation broadcasting systems
- 4-5 Construction technology and management
- 4-6 Innovation for maintenance and renovation of sustainable civil infrastructure

### Track 5: Mobility and Communication Technology

- 5-1 Railway technology, high-speed train, urban transportation, maintenance technology
- 5-2 Automotive technology, society and mobility in 2030
- 5-3 Marine technology, ships, ocean energy utilization, marine resource developments
- 5-4 Aeronautical technology
- 5-5 Innovative telecommunications technologies
- 5-6 Information security and privacy

### Track 6: Industry for Society

- 6-1 Creating value and solving social issues through the big data revolution
- 6-2 Trends in utilizing intellectual property for promoting innovation
- 6-3 Role of finance in industrial innovation
- 6-4 Value-added manufacturing for competitiveness
- 6-5 Innovation of cutting-edge technology and next generation devices
- 6-6 Advanced functional materials

### Track 7: Life Innovation

- 7-1 Design of safe and secure communities, community medicine and home healthcare
- 7-2 Disease prevention (Early diagnosis, bioimaging, etc)
- 7-3 Recovery from disease: Part 1 (Nanomedicine)
- 7-4 Recovery from disease: Part 2 (Minimally invasive therapy and personalized treatment)
- 7-5 Recovery from disease: Part 3 (Regenerative medicine, tissue engineering)
- 7-6 Sustaining good health (Medical and healthcare devices)

### Track 8: Engineering for Society and Engineering in Society

- 8-1 Social missions of engineering and ethics for engineers
- 8-2 Science & technology based on the societal trust & communication  
Part 1: Fukushima Daiichi--the lessons learned
- 8-3 Science & technology based on the societal trust & communication  
Part 2: For the society of robust and secure infrastructure
- 8-4 Engineering qualification systems and ethics

### Track 9: Engineering Education and Women in Engineering

- 9-1 Promoting female leaders in engineering
- 9-2 Promoting young women in engineering
- 9-3 World human resource development and engineering education
- 9-4 Development and contribution of the Japanese engineering education to the world

### Track 10: Other topics

Additional programs will be held during the conference including plenary/panel sessions, Kyoto Program and cultural programs. Please note that most of the oral presentations will be reserved for invited speakers from all over the world. The organizing committee will make decisions on the presentation style (poster or oral) of every accepted submission.

\*Session Description is available from a program page of the WECC2015 website.

## WECC2015 Paper Submission Process

The World Engineering Conference and Convention 2015 paper submission deadlines are as follows:

**March 10, 2015: 300-word abstract written in English should be submitted to the conference website**

**April 30, 2015: Acceptance notification to the authors of General Submission**

**June 1, 2015: Full paper of not more than 5,000 words in written English should be submitted**

All abstracts must be submitted through the WECC2015 website below.

**<http://www.congre.co.jp/wecc2015/papers/>**

In the submission process, authors will be required to submit an abstract on the WECC2015 website that will be included in the program book. No abstracts and papers are to be submitted to the organizers; submissions will only be accepted via the WECC2015 website.

Further information on the full paper template and submission guidelines will be available later on the WECC2015 website. When your paper is submitted, you will receive a confirmation by e-mail and an assigned paper number. Late submissions will not be accepted.

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## Mandatory Pre-Registration

One presenter must be identified for each presentation. The presenter of each paper will be required to pay the conference registration fee by **August 31, 2015**. If the presenter does not register, the paper will be removed from the WECC2015 proceedings and information on the paper will be removed from the WECC2015 website and the program book.

**Inquiries regarding Call for Papers**  
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