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

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<th>Nov 28 (Sat)</th>
<th>Nov 29 (Sun)</th>
<th>Nov 30 (Mon)</th>
<th>Dec 1 (Tue)</th>
<th>Dec 2 (Wed)</th>
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<tr>
<td>Registration</td>
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<td>Parallel Sessions</td>
<td>WFEO STCs WFEO STCs Kyoto Program</td>
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<td>WFEO STCs WFEO STCs Kyoto Program</td>
<td>Conference Plenary Lecture 1, 2, 3</td>
<td>Conference Plenary Lecture 4, 5, 6</td>
<td>Conference Plenary Lecture 7</td>
<td>Summary and Concluding Remarks of the Sessions</td>
<td>Parallel Sessions</td>
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<td>Closing Ceremony</td>
<td>WFEO General Assembly</td>
<td>WFEO Gala Party</td>
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<td>WFEO STCs WFEO STCs Kyoto Program</td>
<td>Opening Ceremony &amp; Conference Opening</td>
<td>Parallel Sessions</td>
<td>WFEO General Assembly</td>
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<td>Conference Plenary Lecture 7</td>
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<td>Conference Plenary Lecture 5</td>
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Technical Exhibition

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Social Events

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<td>Introduction of Traditional Arts and Technology</td>
<td>Visit to Heart of Kyoto and Sightseeing Tour</td>
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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

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

As of February 2015
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 Reconstructing innovation
1.2 Land/city conservation and disaster mitigation
1.3 Robot technology used at disaster sites and in 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 local 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 recycling 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, biometric, etc)
7.3 Recovery from disease: Part 1 (Non-medicines)
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 mission of engineering and ethics for engineers
8.2 Science & technology based on the societal trust & communication Part 1: Fukushima Dai-ichi–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/parallel 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.

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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
Secretariat for WECC2015 - Call for Papers
(c/o Congress Corporation)
Email: wecc2015-cfp@congre.co.jp