

Dr. Sato has been succeeding the Chair of WECC2015 Organizing Committee

Dr. Jun'ichi Sato succeeded the chairmanship of WECC2015 Organizing Committee as well as the presidency of the Japan Federation of Engineering Societies, the organizer of WECC2015, from Dr. Ayao Tsuge on January 15, 2014 when Dr. Tsuge finished the term of JFES presidency.

Dr. Sato completed the doctoral program in aeronautics at the University of Tokyo in 1976, and started his career as a researcher at IHI Corporation. He was awarded a doctorate by the University of Tokyo in 1979. In 2006 he was promoted to the positions of IHI Board Director and Managing Executive Officer, and Director General of Corporate R & D, and in 2008 he became President of IHI Inspection & Instrumentation Co., Ltd. He is now back on the management team of IHI Corporation as an advisor. Beside his corporate career, he has also been engaged in education as a guest professor at the University of Bremen, Germany (1997-1998), Tohoku University, Japan (2004-2005), and Tsinghua University, China (2000-present).

Dr. Sato served as President of the Combustion Society of Japan from 2007 to 2008, and President of the Japan Society of Mechanical Engineers from 2011 to 2012. In 2008 he was elected a member of the Science Council of Japan.

Technical Program and Call for Papers

The conference technical program will be organized with the following tracks and symposia. General submission to those fields is welcome. **However, fundamental research that is far from transfer into practice is not the focus of WECC 2015.**

1. Themes

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 Engineering qualification systems and ethics
- 8-3 Science & technology based on the societal trust & communication
 - Part 1: Fukushima Daiichi--the lessons learned
- 8-4 Science & technology based on the societal trust & communication
 - Part 2: For the environmental problem-free society
- 8-5 Science & technology based on the societal trust & communication
 - Part 3: For the society of robust and secure infrastructure

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

2. Schedule

Deadline for Abstract Submission: **December 10, 2014**

The abstract submission page will be open on the WECC2015 website in May, 2014.

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

3. Draft Program at a Glance (As of April 23, 2014)

Track	Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7	Track 8	Track 9
Theme	Resilient Infrastructure for Society	Energy for a Sustainable Society	Natural Resources for a Sustainable Society	Urban Development and Infrastructure	Mobility and Communication Technology	Industry for Society	Life Innovation	Engineering for Society and Engineering in Society	Engineering Education and Women in Engineering
Nov 30 (Mon)	Opening Ceremony (Main Hall)								
	Break (20 minutes)								
	Plenary Sessions: Conference Plenary Lectures, Part I (Main Hall)								
	Lunch (Swan, Sakura)								
	Plenary Session: Conference Plenary Lecture, Part II (Main Hall)								
	1-1	2-1	3-1	4-1	5-1	6-1	7-1	8-1	9-1
	Reconstruction innovation	Wider applications for fossil resources: Conventional and non-conventional resources	Satellite-based technology, land and marine survey, resource investigation, disaster monitoring	Environmental friendly and sustainable cities & housing	Railway technology, high-speed train, urban transportation, maintenance technology	Creating value and solving social issues through the big data revolution	Design of safe and secure communities, community medicine and home healthcare	[Session Keynote Lecture] Engineering for the society [Session Keynote Lecture] Risk communication as the essential socio-technical system	[Session Keynote Lecture] Engineering literacy Promoting female leaders in engineering
	Break (10 minutes)								
	Plenary Sessions: Conference Plenary Lectures, Part III (Main Hall)								
	Plenary Session: Conference Plenary Lecture, Part IV (Main Hall)								
Dec 1 (Tue)	1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2
	Land/city conservation and disaster mitigation	Power generation technology	Sustainable supply chain management from natural resources to chemicals and metallic/non-metallic materials and their life cycle assessment	Zero energy building technology, new air-conditioning and sanitary technology, green building technology, water utilization technology	Automotive technology, society and mobility in 2030	Trends in utilizing intellectual property for promoting innovation	Disease prevention (Early diagnosis, Biomedicine, etc)	Social missions of engineering and ethics for engineers: Part 1 Social missions of engineering and ethics for engineers: Part 2	Promoting female leaders in engineering Promoting young women in engineering
	Break (20 minutes)								
	Lunch (Swan, Sakura)								
	1-3	2-3	3-3	4-3	5-3	6-3	7-3	8-3	9-3
	Robot technology used at disaster sites and its operating system	Renewable energy sources and energy storage technologies	Water resource and environmental management	Measuring, control, security technology, robot technology	Marine technology, ships, ocean energy utilization, marine resource developments	Role of finance in industrial innovation	Recovery from disease: Part 1 (Nanomedicine)	Engineering qualification systems and ethics	[Panel Discussion] Promoting young women in engineering: Part 1 Informatics and communication technology [Panel Discussion] Promoting young women in engineering: Part 2 Social infrastructure technology
	Break (20 minutes)								
	1-4	2-4	3-4	4-4	5-4	6-4	7-4	8-4	9-4
	Strengthening national interests and creating new industries using big data	Energy saving and efficient energy use	Advanced recycle technology	Next generation broadcasting systems	Aeronautical technology	Value-added manufacturing for competitiveness	Recovery from disease: Part 2 (Minimally invasive therapy and personalized treatment)	Science & technology based on the societal trust & communication Part 1: Fukushima Daiichi--the lessons learned	[Session Keynote Lecture] (1) Features of engineering education in Japan (2) World review of GCW and MOOC
	Dec 2 (Wed)	1-5	2-5	3-5	4-5	5-5	6-5	7-5	8-5
Creating a resilient economy		Energy management	Process technology for sustainability	Construction technology and management	Innovative telecommunications technologies	Innovation of cutting-edge technology and next generation devices	Recovery from disease: Part 3 (Regenerative medicine, Tissue engineering)	Science & technology based on the societal trust & communication Part 2: For the environmental problem-free society	World human resource development and engineering education
Break (20 minutes)									
1-6		2-6	3-6	4-6	5-6	6-6	7-6	8-6	9-6
Resilience in manufacturing and energy sectors		Smart grid, smart community	Agricultural machinery and food engineering, agricultural mechanization, agricultural structures	Innovation for maintenance and renovation of sustainable civil infrastructure	Information security and privacy	Advanced functional materials	Sustaining good health (Medical and healthcare devices)	Science & technology based on the societal trust & communication Part 3: For the society of robust and secure infrastructure	Development and contribution of the Japanese engineering education to the world
Lunch (Swan, Sakura)									
Summary and Concluding Remarks of the Sessions (Main Hall)									
Break (10 minutes)									
Closing Ceremony (Main Hall)									
Banquet (19:00~21:00 at The Westin Miyako Kyoto)									

Progress of conference preparation reported to the Executive Council of WFEO

Dr. Sato shared the progress of WECC2015 with the Executive Council members of WFEO on April 9, 2014 in Paris, where he also asked the chairs of WFEO Standing Technical Committees to inform him of their planned meetings to be held at the site of WECC2015. The preparation of WECC2015 is now gathering momentum as scheduled.



WECC2015 Conference site: Kyoto



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