

1. Purpose

Today, throughout the world, ozonation technologies have been widely used to establish the safe and comfortable life and production process in high-technology industry. This is because ozone has a strong oxidation capacity, no harmful residues after its decomposition, easy management and control characteristics. Accordingly, the ozonation technologies are greatly expected to play an important role in a wide variety of industries in future.

Meanwhile, in Japan, ozonation technologies have been also widely used to get tasty and safe drinking water, and expected to be improved for more effective and new capacity in water purification plants. Gradually, they have been also applied to spa, pool and aquarium for clear water, agriculture, food and beverage for disinfection and high technology production plant for clean-up. Additionally, they are expected to be adopted more in sewage and wastewater treatment field for water environment preservation and reuse of the treated wastewater.

The Ozone World Congress is held biennially, where researchers, engineers, consultants, and people concerned gather from all over the world for presentations and discussions of the results from their researches and experiences. Through the Ozone World Congress, all participants can get up-to-date information, knowledge and innovative ideas, surely contributing to the development of ozone science and technology.

It will be the third time for Japan to hold the Ozone World Congress in 2009, including the 7th congress (Tokyo, 1985) and the 13th congress (Kyoto, 1997). This congress should be a good opportunity to get up-to-date information of the science and technology developed in Japan as well as all over the world.

2. Topics Included

Main topics included in this congress are as follows;

Disinfection	Small Ozonation Systems
Chemical and Biochemical Reactions	Cooling Tower Applications
Water Treatment	Food and Agricultural Applications
Waste Water Treatment	Spa/Pool/Aquarium
Air Treatment	Industrial Applications
Bromate Formation and Control	UV technologies
Emerging Contaminants	UV Reactor design/validation
Ozone Generation/Contacting	Medical Applications
Advanced Oxidation	

3. Schedules of the Congress & Exhibition

	Monday 31 Aug. 2009	Tuesday 1 Sep. 2009	Wednesday 2 Sep. 2009	Thursday 3 Sep. 2009	Friday 4-5 Sep. 2009
Morning		Welcome & Preliminary Session	Oral & poster presentation, Exhibition	Oral & poster presentation, Exhibition	Special Technical Social tour(Over night to Kyoto)
Afternoon	Registration Exhibition	Oral & poster presentation, Exhibition	Oral & poster presentation, Exhibition Technical tour	Oral presentation, Technical tour	
Evening	Welcome reception			Gala night	

4. Technical Program

	Sept. 1			Sept. 2					Sept. 3			
	Room 1 (Small Hall)	Room 2 (Fukuju)	Room 3 (Hourai)	Room 1 (Small Hall)	Room 2 (Fukuju)	Room 3 (Hourai)	Room 4 Zuiun	Room 5 Tougen	Room 1 (Small Hall)	Room 2 (Fukuju)	Room 3 (Hourai)	Room 4 Zuiun
AM 9:00 ~ 12:05	Opening Ceremony 10:30			[4] Municipal Wastewater Treatment	[5] Advanced Oxidation Process	[6] Byproducts and Control	Medical Application	[7] Ozone Generation	[14] Sludge Treatment	[15] Air and Gas Treatment	[16] Industrial Wastewater Treatment	Medical Application
13:30 ~ 18:30	[1] UV	[2] Emerging Contaminants	[3] Industrial Application	[8] Municipal Wastewater Treatment	[9] Advanced Oxidation Process [10] Agriculture-food-beverage application	[11] Industrial Application	Medical Application	[12] Ozone Generation [13] Ozone Solubilization and Decomposition	[17] Water Purification	[18] Disinfection	[19] Industrial Wastewater Treatment	Medical Application

[]: Session No .

※Simultaneous Translation will be prepared in Room 1.

Conference room details

Room No.	floor	Room name	
			in Japanese
Room 1	5 F	Syo Hall(Small Hall)	小ホール
Room 2	2 F	Fukuju	福寿
Room 3	2 F	Hourai	蓬莱
Room 4	2 F	Zuiun	瑞雲
Room 5	2 F	Tougen	桃源

Index of Advertisers

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Index of Exhibitors

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Sept. 1 (Tuesday) p.m. 13:30~16:50

Session [1] at Room 1 (Small Hall)

○UV

(Oguma)

【Key note speech】					
13:30 - 14:00	1-K-1	UV treatment of water in Japan; applications, situations and developments	Ritsumeikan University	Naoyuki Kamiko	Japan
【General presentation】					
14:00 - 14:20	1-1	Investigation of Generation Mechanisms of Nitrite in UV Irradiation	Ritsumeikan University	Nobuhito Yasui	Japan
14:20 - 14:40	1-2	Hydraulic Optimization of a Single UV Lamp Placed Perpendicular to the Flow Direction by Experimental and Numerical Techniques	KWR Watercycle Research Institute	B.A. Wols	Nederland
14:40 - 15:00	1-3	Research on the Actinometer Corresponding to High Dose Range	Iwasaki Electric Co. Ltd.	Yuko Hiroto	Japan
15:00 - 15:20	【Afternoon break】				
【General presentation】					
15:20 - 15:40	1-4	The Characteristics of Ultraviolet Irradiation from Light Sources	Ritsumeikan University	Yuji Yamakoshi	Japan
15:40 - 16:00	1-5	Photo-Transformation of Amoxicillin during UV Treatment and Toxicological Assessment of Its Intermediates	Yonsei University	Joon-Wun Kang	Korea
16:00 - 16:20	1-6	Growth Inhibition of Indigenous <i>Microcystis</i> Species in a Lake Using a Medium-Pressure UV Treatment System	The University of Tokyo	Hiroshi Sakai	Japan
16:20 - 16:40	1-7	Melbourne Water's Approach to One of the World's Most Complex Wastewater Technology Trials	Melbourne Water Corporation	Mark Lynch	Australia

Session [2] at Room 2 (Fukuju)

○ Emerging Contaminants

(Suzuki, Ikehata)

【Key note speech】					
13:30 - 14:00	2-K-1	Endocrine Disruptors and Pharmaceuticals: Implications for Water Sustainability	Applied R & D Center	Shane Snyder	USA
【General presentation】					
14:00 - 14:20	2-1	Removal of Bisphenol A from Aqueous Solution by Ozonation	San Diego State University	Temesgen Garoma	USA
14:20 - 14:40	2-2	Removal Characteristics of Endocrine Disrupting Chemicals by Ozonation	Kyoto University	Hiroshi Tsuno	Japan
14:40 - 15:00	2-3	Perovskite Catalytic Ozonation of Some Pharmaceutical Compounds in Water	Universidad de Extremadura	F.J. Beltrán	Spain
15:00 - 15:20	【Afternoon break】				
【Key note speech】					
15:20 - 15:50	2-K-2	Application of O ₃ and O ₃ /UV Processes for the Removal of PPCPs in Secondary Treated Water: Energy Consumption for the Effective PPCPs Removal	Kyoto University	Ilho KIM	Japan
【General presentation】					
15:50 - 16:10	2-4	Removal of Propranolol in Aqueous Phase by Ozonation	Universitat de Barcelona	Renato F. Dantas	Spain
16:10 - 16:30	2-5	Removal of Endocrine Disrupting Compounds (EDCS) and Pharmaceuticals and Personal Care Products (PPCPS) from Drinking Water Using Advanced Oxidation Process	Walkerton Clean Water Centre, Ontario	Saad Jasim	Canada
16:30 - 16:50	2-6	Peroxidation of Chlorophenols in Soil	Tallinn University of Technology	Anna Goi	Estonia

Sept. 1 (Tuesday) p.m. 13:30~16:50

Session [3] at Room 3 (Hourai)

○ Industrial Application

(Kuzumoto, Liechti)

【Key note speech】					
13:30 - 14:00	3-K-1	Ozone: Science & Engineering Thirty Years of Progress	Ozone science & engineering	Barry L. Loeb	USA
【General presentation】					
14:00 - 14:20	3-1	Direct Plasma Degradation of Perfluorooctanoic Acid in Gas-Liquid Two-Phase Flow Reactor	Tokyo Institute of Technology	K. Sasaki	Japan
14:20 - 14:40	3-2	Decomposing Mechanisms of Persistent Organics in Water Using a Direct Plasma Method	Tokyo Institute of Technology	Koichi Yasuoka	Japan
14:40 - 15:00	3-3	Densification of CVD-SiO ₂ Film Using High-Density Ozone Treatment	Mitsubishi Electric Corporation	Kazumasa Kawase	Japan
15:00 - 15:20	【Afternoon break】				
【General presentation】					
15:20 - 15:40	3-4	THE OZONE LAUNDRY HANDBOOK A Comprehensive Guide for the Proper Application of Ozone in the Commercial Laundry Industry	RICE International Consulting Enterprises	Rip G. Rice	USA
15:40 - 16:00	3-5	Economic and Environmental Benefits of Ozone in Ozone Laundering Systems			
16:00 - 16:20	3-6	Microbiological Benefits of Ozone in Ozone Laundering Systems			
16:20 - 16:40	3-7	Quantification of the Bactericidal, Fungicidal, and Sporicidal Efficacy of the JLA Ltd Ozone Laundering System			

Sept. 2 (Wednesday) a.m. 9:00~12:00

Session [4] at Room 1 (Small Hall)

○ Municipal Wastewater Treatment (Murakami, Ried)

【Key note speech】					
9:00 - 9:30	4-K-1	State of Ozonation to Municipal Wastewater Treatment in Japan	Japan Sewage Works Agency	Toshikazu Hashimoto	Japan
【General presentation】					
9:30 - 9:50	4-1	The Potential Use of Ozone in Municipal Waste Water	ITT W&WW WEDECO	Achim Ried	Germany
9:50 - 10:10	4-2	Use of Ozone for Advanced Oxidation of Dissolved Organic Matter and Micropollutants Removal in a Municipal Wastewater	University of Barcelona	B. Domenjoud	Spain
10:10 - 10:30	4-3	Treatment Efficiency and Operational Parameters in Ozonation of Secondary Effluent	Japan Ozone Association	Hirofumi Takahara	Japan
10:30 - 10:50 【Morning break】					
【Key note speech】					
10:50 - 11:20	4-K-2	Ozone Treatment of Secondary Effluent at US Municipal Wastewater Treatment Plants	MWH Americas	Michael A. Oneby	USA
【General presentation】					
11:20 - 11:40	4-4	Development of Ultra-advanced Sewage Treatment by Compound Oxidation using Advanced Oxidation Process	Takuma Co. Ltd.	Tomoyuki Doi	Japan
11:40 - 12:00	4-5	Validation of Operational Performance of an Ozone Micro-bubble System for Wastewater Reclamation	Hitachi Co. Ltd.	Misaki Sumikura	Japan

Session [5] at Room 2 (Fukuju)

○ Advanced Oxidation Process (Nakayama, Yasunaga)

【Key note speech】					
9:00 - 9:30	5-K-1	Review and Perspective in Application of Advanced Oxidation Process	Japan Ozone Association	Shigeki Nakayama	Japan
【General presentation】					
9:30 - 9:50	5-1	The Investigation of Ozone/Hydrogen Peroxide Treatment after Coagulation and Sedimentation in Drinking Water Plant	Mitsubishi Electric Corporation	N. Yasunaga	Japan
9:50 - 10:10	5-2	Simultaneous Control of Bromate Ion and Chlorinous Odor in Drinking Water Using Advanced Oxidation Processes (O ₃ /H ₂ O ₂)	Kyoto University	Songkeart Phattarapattamawong	Japan
10:10 - 10:30	5-3	O ₃ /H ₂ O ₂ Process for both Removal of Odors and Control of Bromate Ion Formation	Kyoto University	Tadao Mizuno	Japan
10:30 - 10:50 【Morning break】					
【General presentation】					
10:50 - 11:10	5-4	Advanced Oxidation Process – Effective and Technical Suitable for Micropollutant Removal in Contaminated Water Sources	ITT W&WW WEDECO	Achim Ried	Germany
11:10 - 11:30	5-5	Effects of Addition of Hydrogen Peroxide and/or Calcium Carbonate on Ozone-Decomposition of Phenol or P-chlorophenol Sparingly Dissolved in Water	Kansai University	Katsuhiko Muroyama	Japan
11:30 - 11:50	5-6	A New Catalytic Advanced Oxidation Process on Wastewater Reclaim	Applied Catalyst Tech.	Shu-Jung Lin	Taiwan

Sept. 2 (Wednesday) a.m. 9:00~12:30

Session [6] at Room 3 (Hourai)

○ Byproducts and Control

(Kosaka, Dimitriou)

【Key note speech】					
9:00 - 9:30	6-K-1	Bromate Pre-systemic Detoxification Metabolism Research Progress	Jacobs Engineering	Michael Dimitriou	USA
【General presentation】					
9:30 - 9:50	6-1	Decomposition of Bromate by Biological Activated Carbon	Chinese Academy of Sciences	Juan Liu	China
9:50 - 10:10	6-2	Behaviors of Halogenated Compounds during Pre-Chlorine, Ozone and Post-Chlorine Treatment	Kyoto University	Eri Hasegawa	Japan
10:10 - 10:30	6-3	Identification of N-Nitrosodimethylamine Precursors on Ozonation from Influent of a Sewage Treatment Plant	National Institute of Public Health	Koji Kosaka	Japan
10:30 - 10:50	【Morning break】				
【Key note speech】					
10:50 - 11:20	6-K-2	Ozonation Byproducts in Japan	Kyoto University	Shinya Echigo	Japan
【General presentation】					
11:20 - 11:40	6-4	Formation of Aldehydes during Ozonation of Secondary Effluent from a Municipal Sewage Treatment Plant and Their Ecological Effect	Research Center for Eco-environmental Science	Zhiming Yan	China

Sept. 2 (Wednesday) a.m. 9:00~12:30

Session [Medical 1] at Room 4 (Zuiun)

○ Pharmacological Aspects of Medical Ozone: Reaction Mechanism, Mechanisms of Action, Biological Models, Animal and Cell Models
(Renate Viebhan-Haensler, Miura, T., Washizu, M.,)

9:00 - 9:10		【Welcome and opening】	Katsuhiko Nakamuro		
【Keynote Lecture】					
9:10 - 9:45	MS1-1	Low-Dose Medical Ozone as a Bioregulator. “Ozone Peroxide” as Second Messenger Molecule?	Dr.J.Hänsler GmbH Iffezheim/Baden-Baden,	Renate Viebahn-Hänsler	Germany
【General presentation】					
9:45 - 10:15	MS1-2	Ozone Oxidative Postconditioning efficacy on the Prolapse and Protrusion phases in patients with Hernia Disc	University of Havana	Olga Sonia León Fernández	Cuba
10:15 - 10:45	MS1-3	Effect of Ozone Oxidative Preconditioning on Oxidant Status of Adjuvant Arthritic Rats	Cairo University	M.Nabil.Mawsouf	Egypt
10:45 - 11:05	MS1-4	Ozonotherapy for Dogs and Cats	Acacia Animal Hospital	Nashiku Shimizu	Japan
11:05 - 11:15	【Discussion】				
11:15 - 11:45	【Coffee Break】				
11:45 - 12:15	MS1-5	Ozone Oxidative Postconditioning in Acute Renal Failure	Ozone Research Center, National Center of Scientific Research	Silvia Menéndez	Cuba
12:15 - 12:30	【Discussion】				

Sept. 2 (Wednesday) a.m. 9:00~11:50

Session [7] at Room 5 (Tougen)

○ Ozone Generation (Ito, Kogoma)

【Key note speech】					
9:00 - 9:30	7-K-1	Recent Topics Related to Ozone Generation in Japan	Chiba Institute of Technology	Haruo Ito	Japan
【General presentation】					
9:30 - 9:50	7-1	The Influence of Adsorbed Gas Layers on the Electrodes on Ozone Yield Efficiency	The Kansai Electric Power Company Inc.	Akira Murai	Japan
9:50 - 10:10	7-2	Long Time Operation of an Ozonizer with a Rotating Type Electrode	Saga University	Sebastian Gnapowski	Japan
10:10 - 10:30	7-3	A Study of the Mechanisms of Composition on the Surface of Nickel in the Ozone Production Using Pure Oxygen	The Kansai Electric Power Company Inc.	Akira Murai	Japan
10:30 - 10:50	【Morning break】				
【General presentation】					
10:50 - 11:10	7-4	Higher Energy Efficiency of O ₃ Generation by Shorter Pulse Power	Kumamoto University	Sho Okada	Japan
11:10 - 11:30	7-5	Ozone Generation Using Nano Seconds Pulsed Discharge	Kumamoto University	Takao Matsumoto	Japan
11:30 - 11:50	7-6	IGS (Intelligent Gap System) Dielectric Technology for Large-Scale Ozone Generator	Degrémont Technologies Ltd	Fabio Krogh	Switzerland

Sept. 2 (Wednesday) p.m. 14:15~17:55

Session [8] at Room 1 (Small Hall)

○ Municipal Wastewater Treatment (Murakami, Ried)

【General presentation】					
14:15 - 14:35	8-1	The Study on the Ceramic Membrane Wastewater Reuse System with Pre Ozonation and Coagulation	Metawater Co. Ltd.	M. Noguchi	Japan
14:35 - 14:55	8-2	Effect of Fouling Reduction by Ozonated Water Backwashing in MBR Microfiltration	Hiroshima University	Srinivasa Reddy Mallampati	Japan
14:55 - 15:15	8-3	Treated Water Quality Enhancements from Ozonation and Biological Media Filtration in a Tertiary Plant Upgrade	Melbourne Water Corporation	John Mieog	Australia
15:15 - 15:35	8-4	Treatment Characteristics of Wastewater Containing Phenol and Reaction Mechanism by Ozone-Added Activated Sludge Process	Kyoto University	Fumitake Nishimura	Japan
15:35 - 15:55	8-5	Updating an Existing Wastewater Ozonation System with Generators and Sidestream Injection	Black & Veatch	Jeff Neemann	USA
15:55 - 16:15	【Afternoon break】				
【General presentation】					
16:15 - 16:35	8-6	Examples of ozone application for reuse of treated wastewater	Sewage Works Bureau of Tokyo	Yoshitake Yoda	Japan
16:35 - 16:55	8-7	Introduction and Management of Ozonation Facilities for Full Treatment of Influent Sewage in Kyoto City	Sewage Works Bureau of Kyoto City	Haruki Mizutani	Japan
16:55 - 17:15	8-8	Super Advanced Treatment with Ozone and BAC in Lake Biwa Basin-Wide Sewage System	Shiga Prefecture	Masahiro Uriu	Japan
17:15 - 17:35	8-9	Ozone Application during Coagulation of Wastewater: Effect on Dissolved Organic Matter	UNAM	M.T. Orta de Velásquez	Mexico
17:35 - 17:55	8-10	Coagulation – Flocculation and Ozonation of Municipal Wastewaters for Reuse in Agricultural Irrigation	Ozone Research Center, National Center of Scientific Research	Silvia Menéndez Cepero	Cuba

Sept. 2 (Wednesday) p.m. 14:15~17:55

Session [9] at Room 2 (Fukuju)

○ **Advanced oxidation process** (Nakayama, Yasunaga)

【General presentation】					
14:15 - 14:35	9-1	The Advanced Oxidation Processes with Ozone, Ozone-UV, and Ozone-UV. H ₂ O ₂ an Alternative for Treatment of 2,5-dichlorophenol	Universidad Autónoma Metropolitana – Azcapotzalco	Clementina Ramírez-Cortina	Mexico
14:35 - 14:55	9-2	Phytotoxicity of Intermediate Compounds of Phenol Oxidation with Ozone and Ozone-UV			
14:55 - 15:15	9-3	Water Treatment System Using Electrical Discharge in Water Cavitation Field	Saga University	Satoshi Ihara	Japan
15:15 - 15:35	9-4	Effects of Ozone-Gas Bubble Size and pH on Ozone/UV Treatment	Ryukoku University	Naoyuki Kishimoto	Japan
15:35 - 15:55	9-5	Decomposition of 1,4-dioxane by Ozone and Ozone/UV	Sumitomo Precision Product	Shinya Tasaka	Japan

15:55 - 16:15 【Afternoon break】

Session [10] at Room 2 (Fukuju)

○ **Agriculture-food-beverage Application** (Naito)

【General presentation】					
16:15 - 16:35	10-1	Ozonation of Imidacloprid and Bitertanol in Aqueous Solutions: Reaction Monitoring and Effects on Cytotoxicity	Université de Toulouse	M.Bourgin	France
16:35 - 16:55	10-2	Degradation of Deoxynivalenol by Ozonation Treatment: By-Products and Genotoxicity Characterization	Université de Toulouse	F.Violleau	France
16:55 - 17:15	10-3	Removal of Odorous Compound on Rubber Seals using Ozone in Beverage Industries	Hiroshima University	Tetsuji Okuda	Japan
17:15 - 17:35	10-4	Ozone Inactivation of Food Spoilage Acid-Producing Bacteria	Aichi Gakuin College	Sigezo Naito	Japan
17:35 - 17:55	10-5	Inactivation of Pathogenic Microorganisms in Fruit Juices during Ozone Processing	Dublin Institute of Technology	P.J.Cullen	Ireland

Sept. 2 (Wednesday) p.m. 14:15~17:35

Session [11] at Room 3 (Hourai)

○ Industrial Application (Kuzumoto, Liechti)

【General presentation】					
14:15 - 14:35	11-1	Application of Ozone Treatment and the Peroxone (O ₃ + H ₂ O ₂) AOP (Advanced Oxidation Process) to Modify the Surface Characteristics of Single-Walled Carbon Nanotubes (SWNTs)	R&D Institute of KOLON EFMC	Hyung-Nam Lim	Korea
14:35 - 14:55	11-2	Development of Corrosion Inhibitor Treatment Technique for Nuclear Power Plant	Toshiba Corporation	Yuki Yahiro	Japan
14:55 - 15:15	11-3	Effect and Optimization of Partial Pressure of Carbon dioxide during Ozone Water Production	Nomura Micro Science Co., Ltd.	Takahiro Yonehara	Japan
15:15 - 15:35	11-4	Measurement of Dissolved Ozone Concentration with Multi-Component Continuous Water Analyzer	Ebara Jitsugyo Co., Ltd.	Yoshio Sato	Japan
15:35 - 15:55	11-5	Ozone Measurement Based on optical Absorption Using a Visible LED Source	The Univ. of Tokushima	Yoji Shimada	Japan
15:55 - 16:15 【Afternoon break】					
【General presentation】					
16:15 - 16:35	11-6	Simple Ozone-Leak Monitor with Ultra-Violet Absorbance System	Ebara Jitsugyo Co. Ltd	Nobuyuki Kisaki	Japan
16:35 - 16:55	11-7	Measurement of Ozone Concentration Distribution around Small Air Deodorizer Using Developed Ozone Detection Ribbon	NTT Energy & Environment System Labs	Yasuko Y. Maruo	Japan
16:55 - 17:15	11-8	Acid Leaching of Chalcopyrite with Ozone and Ferric Ions: Taguchi Experiment and Statistical Analysis	Universidad Autónoma de Coahuila	F. R. Carrilo-Pedroza	Mexico
17:15 - 17:35	11-9	Structural Characterization by Nuclear Magnetic Resonance of Ozonized Triolein	National Center for Science Research	Maritza F. Díaz	Cuba

Sept. 2 (Wednesday) p.m. 14:00~

Session [Medical 2] at Room 4 (Zuiun)

○ Clinical Reports and Treatment Strategies: Angiopathia, Diabetes and Chronic Inflammatory Diseases

(Noam Calderon, Sugihara, N.)

【Keynote Lecture】					
14:00 - 14:35	MS2-1	The Intensive Care of Lower Limb Diabetic Wounds: Our 10 Years Experience in 198 Patients Treated Topically with Ozone as Adjunctive Agent	Bnai-Zion Medical Center	Noam Calderon	Israel
【General presentation】					
14:35 - 15:00	MS2-2	Adjuvant Hyperbaric Oxygen and Ozone Therapy in the Treatment of Chronic Leg and Foot Ulcers (Pilot Clinical Study)	Cairo University	M.Nabil Mawsouf	Egypt
15:00 - 15:10	【Discussion】				

Session [Medical 3] at Room 4 (Zuiun)

○ Clinical Reports and Treatment Strategies: Virus Cased Diseases and Complementary Oncology

(Silvia Menéndez, Nagata, T.)

【Keynote Lecture】					
15:10 - 15:50	MS3-1	Ozone Therapy in Cancer Treatment. State of the Art	Ozone Research Center, National Center of Scientific Research	Silvia Menéndez	Cuba
15:50 - 16:00	【Discussion】				
17:00 -	Practical Session (Kusaka Clinic)				

Sept. 2 (Wednesday) p.m. 14:15~18:05

Session [12] at Room 5 (Tougen)

○ Ozone Generation

(Ito, Kogoma)

【General presentation】					
14:15 - 14:35	12-1	Studies on Discharges Mechanism of Micro-plasma Ozonizer Operated in Water	University of Miyazaki	Yuji Tanaka	Japan
14:35 - 14:55	12-2	Fundamental Study of Barrier Discharge and Ozone Generation Characteristics for Multiple Needles to Plane Configuration	University of Hyogo	Hideki Ueno	Japan
14:55 - 15:15	12-3	Miniaturized Ozone Generator Based on Uniaxially Polarized LiTaO ₃ Crystal	Doshisha University	Yoshikazu Nakanishi	Japan
15:15 - 15:35	12-4	Effect of Dielectric Electrode Material on Ozone Generation in Piezoelectric Transformer-Based Ozone Generator	The Univ. of Tokushima	K. Teranishi	Japan
15:35 - 15:55	12-5	Consideration on Configuration of Parallel Reactors for Ozone Production Using Nanosecond Pulsed Power Discharge	The Univ. of Tokushima	Fumiaki Fukawa	Japan
15:55 - 16:15 【Afternoon break】					

Session [13] at Room 5 (Tougen)

○ Ozone Solubilization and Decomposition (Mizuno)

【Key note speech】					
16:15 - 16:45	13-K-1	Absorption and Decomposition Characteristics of Ozone for High Concentration	Kyoto University	Tadao Mizuno	Japan
【General presentation】					
16:45 - 17:05	13-1	Modeling the Roles of Initiator, Promoter and Inhibitor of Natural Organic Matter in Ozone Decomposition	National University of Singapore	Ee Ling Yong	Singapore
17:05 - 17:25	13-2	Decomposition Behavior of Dissolved Ozone in High Temperature Solution for Decontamination of Reactor Vessel in a Nuclear Power Plant	Toshiba Corporation	Yumi Yaita	Japan
17:25 - 17:45	13-3	Mass Transfer and Reaction Characteristics of Pressurized Non-Bubble Ozone Contactor	Kyoto University	Shota Furusawa	Japan
17:45 - 18:05	13-4	Study on Ozone Absorption Characteristics in Ultraviolet Rays / Ozone Reactor	Kubota Corporation	Kodai Yoshizaki	Japan

Sept. 3 (Thursday) a.m. 9:00~11:30

Session [14] at Room 1 (Small Hall)

○ Sludge Treatment

(Yasui, Liechti)

【Key note speech】					
9:00 - 9:30	14-K-1	Power Production from Municipal Sludge Using Improved Anaerobic Digestion System	The University of Kitakyushu	Hidenari Yasui	Japan
【General presentation】					
9:30 - 9:50	14-1	Reduction of Sewage Sludge and Recovery of Phosphorus by The Ozonation/Cavitation Method	The University of Kitakyushu	Seiichi Ishikawa	Japan
9:50 - 10:10	14-2	Evaluation of Multistage Anaerobic Digestion Systems combining Ozonation, Mesophilic Digestion and Thermophilic Digestion	Tohoku University	Takuro Kobayashi	Japan
10:10 - 10:30	14-3	Ecological Treatment System for River Sediments Using Air & Ozone Bubbling	Shimizu Corporation	Sumio Horiuchi	Japan
10:30 - 10:50	【Morning break】				
【General presentation】					
10:50 - 11:10	14-4	Verification of Sludge Reduction by Ozonation with Phosphorus Recovery Conducted at the Demonstration Plant	Ebara Corporation	Kiyomi Arakawa	Japan
11:10 - 11:30	14-5	Evaluation of Sludge Disintegration by Ozonation in the Activated Sludge Process	Japan Sewage Works Agency	Kentaro Mizuta	Japan

Session [15] at Room 2

○ Air and Gas Treatment

(Sugimitsu)

【General presentation】					
9:00 - 9:20	15-1	Deodorization of Cooking Exhaust from Food Processing Factories and Restaurants with Water Mist and Ozone	Keihin Sangyo Co. Ltd	Kazushi Adachi	Japan
9:20 - 9:40	15-2	Effect of Different Combination of Metal and Zeolite on Ozone Assisted Catalysis for VOC Removal	National Inst. of Advanced Industrial Sci. & Tech.	Masami Sugasawa	Japan
9:40 - 10:00	15-3	Development of a New NO _x Absorption System - The Effect of Ozone Oxidation on Absorption Efficiency	Toda Electric Co. Ltd	Shiro Yamauchi	Japan
10:00 - 10:20	15-4	Catalytic Decomposition of Unwanted Ozone under Ambient Conditions	Carus Corporation	Ken Pisarczyk	
10:20 - 10:50	【Morning break】				
【General presentation】					
10:50 - 11:10	15-5	Decomposition of Benzene, MTBE and Toluene in Gas Phase by Ozone	National Polytechnic Institute	Alejandro García González	Mexico

Sept. 3 (Thursday) a.m. 9:00~12:45

Session [16] at Room 3 (Hourai)

○ Industrial Wastewater Treatment (Takahashi, Nishijima, Tuyen)

【Key note speech】					
9:00 - 9:30	16-K-1	Ozonation of Dyestuffs and Intermediates and Further Decrease in Dissolved Organic Carbon by Post-biodegradation	National Institute of AIST	Nobuyuki Takahashi	Japan
【General presentation】					
9:30 - 9:50	16-1	The Experimental Results of Dyeing Wastewater Treatment by Ozonation and Biological Method	Vietnamese Academy of Sci. & Tach.	Trinh Van Tuyen	Vietnam
9:50 - 10:10	16-2	Dyeing Wastewater Treatment Using Charcoal Made of Vietnamese Bamboo Waste	Meisei Univ.	Shuji Yoshizawa	Japan
10:10 - 10:30	16-3	Melanoidin Ozonation for Colour Removal and Anaerobic Biodegradability Enhancement	INRA, UR 50, Laboratoire de Biotechnologie de l' Environnement	BATTIMELLI Audrey	France
10:30 - 10:50	【Morning break】				
【General presentation】					
10:50 - 11:10	16-4	Oxidation of Petroleum Refinery Wastewater Containing Phenolic Compound	Univ. of National Autonoma of Mexico	Lazcano-Arriola Luz Maria	Mexico
11:10 - 11:30	16-5	Effect of the Additives on the Degradation of Dyes in Aqueous Solution by Single Ozonation	National Polytechnic Institute	Arizbeth A. Pérez Martínez	Mexico
11:30 - 11:50	16-6	Cyanide Removal from Aqueous Solutions by Combined Effect of Ozone and Activated Carbon	Univ. Autonoma of San Luis Potosi	M. A. Sanchez Castillo	Mexico

Session [Medical 3] at Room 4 (Zuiun)

○ Clinical Reports and Treatment Strategies: Complementary therapy of Viral and Oncology Diseases

(Silvia Menéndez, Uemura, S. Shimizu, N.)

【General presentation】					
9:00 - 9:20	MS3-2	Anti-tumor Effect of Ozone Water	Tottori University	Yoshiharu Okamoto	Japan
9:20 - 9:50	MS3-3	Intratumoral Ozone Therapy - An Important Step in Improving the Control of Tumor Growing	Clinic for Cancer Therapy on Scientific and Complementary Basis	Schuppert, A	Germany
9:50 - 10:00	【Discussion】				
10:00 - 10:30	MS3-4	Ozone Therapy in Patients with Viral Hepatitis "C". Ten Years Experience	Cairo University	M.Nabil.Mawsouf	Egypt
10:30 - 10:50	MS3-5	Efficacy of Ozone Therapy for Postherpetic Neuralgia (PHN)	Keio University	Hirobumi Tokuyama	Japan
10:50 - 11:00	【Discussion】				
11:00 - 11:30	【Coffee Break】				
11:30 - 11:50	MS3-6	Clinical Comparative Study of Ozone Therapy and Guideline Therapy in Pressure Ulcer	Asotateno Hospital	Shinichi Uemura	Japan
11:50 - 12:10	MS3-7	Ozonated Olive Oil Enhances the Growth of Granulation Tissue in a Mouse Model of Pressure Ulcer	Setsunan University	Fumitoshi Sakazaki	Japan
12:10 - 12:30	MS3-8	Components and Anti-inflammatory Action Mechanism of Ozonized Olive Oil	Hokkaido University	Toshiaki Miura	Japan
12:30 - 12:45	【Discussion】				

Sept. 3 (Thursday) p.m. 13:30~15:40

Session [17] at Room 1 (Small Hall)

○ Water Purification

(Funamizu, Dimitriou, Sakuma)

【Key note speech】					
13:30 - 14:00	17-K-1	Operating Experience with Drinking Water Ozonation in North America	Process Applications, Inc.	Kerwin L. Rakness	USA
【General presentation】					
14:00 - 14:20	17-1	Evaluation of the Raw and Process Water in the Purification Plant by Fluorescence Intensity	Ochanomizu University	Nobuyushi Kaiga	Japan
14:20 - 14:40	17-2	Estimation of an Appropriate Ozonation System in Water Purification Plant	Japan Ozone Association	Hirofumi Takahara	Japan
14:40 - 15:00	17-3	Introduction of High-Efficiency Ozonation System Combining Ozone Generator Using Oxygen as Source Material and U-Tube Contactor	Hansin Water Works Agency	Kazuo Ogura	Japan
15:00 - 15:20	17-4	Design of a 2,900 MLD Ozonation System for Taste and Odor Control in Texas	Black & Veatch	Jeff Neemann	USA
15:20 - 15:40	17-5	Adoption of Advanced Water Treatment by Ozonation Process to Higashi-Murayama Purification Plant in Tokyo Waterworks	Bureau of Waterworks Tokyo Metropolitan Government	Hiroshi Yamada	Japan

Session [18] at Room 2 (Fukuju)

○ Disinfection

(Otaki)

【General presentation】					
13:30 - 13:50	18-1	Disinfection and Removal of Biofilms Using Ozone in Combination with Hydrogen Peroxide	Nihon University	Mariko Tachikawa	Japan
13:50 - 14:10	18-2	Treatment of antibiotics and antibiotic resistant bacteria in manure and water with ozonation process	Bogazici Univ.	Isil Akmehmet Balcioglu	Turkey
14:10 - 14:30	18-3	Disinfection of Pure Water by means of Direct Ozonation Using Membrel® System	Degremont Technologies Ltd	Fabio Krogh	Switzerland
14:30 - 14:50	18-4	Ozone Application for Postharvest Disinfection of Tomatoes	Ozone Research Center, National Center of Scientific Research	Silvia Menéndez Cepero	Cuba

Session [19] at Room 3 (Hourai)

○ Industrial Wastewater Treatment

(Takahashi, Nishijima, Tuyen)

【General presentation】					
13:30 - 13:50	19-1	Phenol Oxidation with Ozone and Ozone-UV-H ₂ O ₂	Univ. Autonoma of Metropolitana-Azcapotzalco	Ramírez-Cortina Clementina R	Mexico
13:50 - 14:10	19-2	Application of Treatment with the Combination Use of Microbubble Ozonation and Biological Treatment to the Wastewater from the Low Type Grease-Interceptor	OPPC Co. Ltd.	Tatsuhito Junke	Japan
14:10 - 14:30	19-3	Mitigating Environmental Impact of Gold Mine Wastewater through Ozone Oxidation and Aquifer Re-injection	Mazzei Injector Company	James R Jackson	USA
14:30 - 14:50	19-4	Ozone Oxidation of Stripped Sour Water Issued from a Mexican Oil Refinery	Univ. National Autonoma of Mexico	Durán-Moreno Alfonso	Mexico
14:50 - 15:10	19-5	Landfill Leachates Treatment by Coagulation-Flocculation-Ozonation Process	Ozone Research Center, National Center of Scientific Research	Silvia Menéndez	Cuba
15:10 - 15:30	19-6	A Feasibility Study on the Catalytic Ozonation Using Modified Aluminum-Coagulated Sludge as a Heterogeneous Catalyst in Wastewater Oxidation Treatment	Feng Chia University	J. J. Wu	Taiwan

Sept. 3 (Thursday) p.m. 14:00~18:00

Session [Medical 4] at Room 4 (Zuiun)

○ Clinical Reports and Treatment Strategies: Ozone in Pain Management, Intraarticular and Intradiscal Injections, Trigger Points, Rheumatology

(Fahmy, Z., Lehnert, Th., Nagata, T.)

【Keynote Lecture】					
14:00 - 14:35	MS4-1	Ozone Therapy for Fibromyalgia Syndrome (FMS) and Spinal Canal Stenosis	Kusaka Clinic	Tsutae Nagata	Japan
14:35 - 15:10	MS4-2	Controlled Study of the efficacy ozone therapy in Fibromyalgia, system review of a randomised controlled trial	Augusta Clinic for Rheumatic Diseases, Physical. med. and Rehabilitation, Bad-Kreuznach	Fahmy, Z	Germany
15:10 - 15:45	MS4-3	Final Results of Combined Intradiscal and Periganglionic Injection of Medical Ozone and Periganglionic Administration of Steroids and Anesthetic for the Treatment of Lumbar Disk Herniation: Effects on Disk Size and Lumbar Radiculopathy	University Frankfurt	Thomas Lehnert	Germany
【General presentation】					
15:45 - 16:05	MS4-4	Ozone Therapy: A Clinical Study on Pain Management	University of Ancona	L. Re	Italy
16:05 - 16:15	【Discussion】				
16:15 - 16:40	【Coffee Break】				
16:40 - 17:00	MS4-5	Treatment of Lumbodinya and Sciatica with Ozone Therapy	Orthopaedic & Traumatology	Alejandro Ortiz-Basulto	Mexico
17:00 - 17:20	MS4-6	Postoperative Pain Reilief by Ozone Therapy in Patients who Undergone Hemorroidectomy	Gastrointestinal and Protology Clinic	Hiroshi Gotoh	Japan
17:20 - 17:30	MS4-7	Development of Small-sized Generator of Ozone-dissolved Water Using Boron Doped Diamond Electrodes	Permelec Electrode Ltd	Y. Nishiki	Japan
17:30 - 17:40	【Discussion】				
17:40 - 17:55	【Summarizing】		Renate Viebhan-Haensler		
17:55 - 18:00	【Closing】		Chikaaki Kusaka		

Poster Session

【Poster presentation】				
P-1	Super-hydrophilization of Stainless Steel Surface by the Combined Use of Gaseous Ozone and Heat	Industrial Technology Center of Okayama Prefecture	Kazuhiro Takahashi	Japan
P-2	Diclofenac Removal by UV and UV/O ₃ Processes	Universidad de Extremadura	Juan F. García-Araya	Spain
P-3	Reuse of Treated Sewage by Application of Ozone in Yokohama City	Yokohama City		Japan
P-4	Fundamental Studies on Effect of Ozone Injection to the Internal Combustion Engine – Chemical changes of Hydrocarbon Compounds by Ozone Injection –	Sasebo National College of Technology	Yoshihito. Yagyū	Japan
P-5	An Ozone-zero Phenomena in Pure Oxygen in Ozone Generation	Saga Univ.	Chobei Yamabe	Japan
P-6	Actinomyces Scum Control Technology for Correcting Treatment Problems by Ozone Addition	Kawasaki City	Takashi Okochi	Japan
P-7	Design of Ozone Installation for Landfill Leachate Pre-Treatment	DEGREMONT JAPAN	Philippe CACHIA	
P-8	Improvement of a Measurement System for Surface Loss Rate of Ozone	Sofia University	I. M.Rusinov	Bulgaria
P-9	Development of Eco-friendly Ozone Contactor	Seoul Waterworks Research Institute	Woo-Hyeun Joe	Korea
P-10	Concrete Deterioration by Ozonation	Kyoto University	Taira Hidaka	Japan
P-11	Investigation of Operational Parameters and Treatment Characteristics of Ozone-Added Activated Sludge Process by Simple Mathematical Model	Kyoto University	Kensuke Okuda	Japan
P-12	Ozonation of Biologically Treated Sewage Effluent for Antiviral Drugs Removal: An Approach to Sewage Treatment Plant Preparedness under Pandemic Influenza	Kyoto University	Gopal Chandra Ghosh	Japan
P-13	Ozone and Ozone/Hydrogen Peroxide Effect on Coliphage Q β Inactivation from Secondary Effluent	Kyoto University	M.AB.WAHID	Japan
P-14	Tubular Type Ozone Generator for Energy and Resource Saving	Mitsubishi Electric Corporation	Hajime Nakatani	Japan
P-15	Effect of Ozonation on the Quality Parameters of Fruit Juices	University College Dublin	B. K. Tiwari	Ireland
P-16	Investigation of Operational Parameter Effects on Ozone Production for Atmospheric AC Corona Plasma Reactors through Surface Response Methodology	Hacettepe University	Abdurrahman Tanyolaç	Turkey

Medical Session Sept 2-3

[Poster presentation]			
MP-1	Clinical and Neurophysiology Effects of the Intrathecal Administration of Ozone-Oxygen Mixture in Hiv-Patients with Arachnoencephalitis Caused by Herpes Virus	Saenko T.Ye	Ukraine
MP-2	Study of Sanogenetic Action of Ozone by Digital Holographic Interference Microscopy	T.M. Barkhotkina	Ukraine
MP-3	Analysis of Perspectivity of Ozone Technologies Use in Otorhinolaryngology	T.M. Barkhotkina	Ukraine
MP-4	Determination of the Total Unsaturation of Lipids in Patients with Diabetes Mellitus T-II Treated by Ozone Therapy	Tatyana Poznyak, Fabio Antunez, <u>Alejandro García</u> and Isaac Chairez	Mexico
MP-5	Changes In Biochemical Characteristics in Correction of Metabolic Misbalance with Low Doses of Ozone	<u>Claudia N.Kontorschikova</u> , Julia R.Efremenko, Maria V.Vedunova, Elena F.Koroleva, Oleg	Russia
MP-6	Pathogenetic Justification of Ozonotherapy Usage in Gynecological Patients after Surgery	<u>O.S. Yanchenko</u> , K.A. Korovushkina, E.U. Kontorschikova, T.C. Kachalina, V.V. Novikov	Russia
MP-7	Influence of Combined Treatment and Ozonotherapy on the Changes in the Content of Zinc, Copper and Iron in Patients with Breast Cancer	<u>Claudia N.Kontorschikova</u> , Anna V.Alasova, Sergey N.Tzybusov, Igor G.Terentiev, Boris E. Shakhov	Russia
MP-8	Hematological Study of Healthy Man Treated by Major Autohemotherapy with Ozone for Five Years	<u>Nobuo Sugihara</u> , Yukina Shibata, Akiko Emoto, Shizuka Obigane, Fumitoshi Sakazaki and Katsuhiko Nakamuro	Japan
MP-9	The History of Ozone Therapy in Japan	<u>Nariko Shinriki</u> , Mitsuo Ohsawa, Noboru Obi, Tohru Taguchi, Katsuhiko Nakamuro	Japan
MP-10	Safety Evaluation and Effect of Ozone Gel	<u>Gotaro Shiota</u> , Akihiko Shiba	Japan
MP-11	Current State and the Future of Treatment with Ozone Water	Gotaro Shiota	Japan
MP-12	Proinflammatory Event of Ozonized Olive Oil in Mice	<u>Masanori Semma</u> , <u>Hiromi Kataoka</u> , Fumitoshi Sakazaki, Katsuhiko Nakamuro, Tadashi, Yamamoto, Seiichi Hirota, Keiko Tazuya-Murayama and Atsushi Ichikawa	Japan.
MP-13	Toxicological Study of Low Concentration Level-ozonated Water	<u>Katsuhiko Nakamuro</u> , Fumitoshi Sakazaki and Takaya Fujii	Japan
MP-14	Development of New Surfactant with Antifungal Property	<u>Akinori Tanaka</u> , Yoshiaki Narushima, Shinya Yoshida, Kazutoshi Yamazaki	Japan
MP-15	Disinfection Effect by Ozone Gas and Application Examination to Linen Materials	<u>Yasuo Nakamura</u> , Hiroshi Takagi, Yukihiro Kamase	Japan
MP-16	Application Research on Ozone Water to Endoscope Disinfection	<u>Takashi Urano</u> , Kazuhiro Nakazawa, Yukito Endo, Yukihiro Kamase	Japan
MP-17	Sterilization with Ozone in a Clean Room of Pharmaceutical Manufacturing Facility	Noriyoshi Kosaka, <u>Shinichiro Okuda</u> , Fumitoshi Kadowaki	Japan
MP-18	Survival of Noroviruses in Yodo River and Inactivation of Norovirus in Water by Ozone.	Kenji Yamazaki and <u>Katsuhiko Nakamuro</u>	Japan
MP-19	Bactericidal Effect of Low-Level Dissolved Ozone to <i>Legionella pneumophila</i>	Katsuhiko Nakamuro, <u>Hitoshi Doi</u> , Toshie Hizuka and Akiko Edagawa	Japan
MP-20	Microbiological Safety of the Bath Water Using a Newly Developed Ozone Treatment Filtration System (Kanozo system)	Chiemi. Terao, Natsuko. Doi, Satoshi. Ishizuka, <u>Reiji. Terao</u> , and Katsuhiko. Nakamuro	Japan

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