

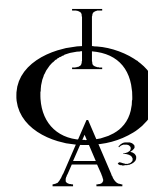


# 19th World Congress & Exhibition, Tokyo, Japan

International Ozone Association

31 August - 3 September 2009

Tower Hall Funabori, Funabori, Edogawa-ku, Tokyo, Japan



## Preliminary Congress Description

### 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 tour (option)

Technical tour to visit ozone application facilities including the Asaka Water Purification Plant and the Shibaura reclamation Plant in Tokyo area will be prepared in the afternoon on Sep.2 and 3, 2009.

### 5. Special technical tour (option)

2 days special tour on Sept. 4 and 5, 2009, to visit water and wastewater treatment plants in Kyoto Area will be prepared. You can enjoy comfortable Super Express Train "Shinkansen" and historical Kyoto City.

## 6. Social tour (option)

Several social programs will be also prepared. You can enjoy Japanese historical, traditional and nice sightseeing spots.

## 7. Registration

Registration fees are shown in the following table

		Early bird registration Before May 31, 2009	Regular registration after June 1st, 2009
Technical session (including proceedings, exhibits & opening reception)	IOA, JOA members	45,000 JPY	50,000 JPY
	Non members	55,000 JPY	60,000 JPY
	Students	10,000 JPY	10,000 JPY
Gala night		10,000 JPY	15,000 JPY
Accompanying person (Welcome reception, Welcome & Preliminary Session, Exhibits and Gala night )		15,000 JPY	20,000 JPY
Technical tour		6,000 JPY	6,000 JPY
Special technical tour		50,000 JPY	50,000 JPY
Social tour		option	option

Visit: <https://apollon.nta.co.jp/ozone2009-er/> IOA WC2009 Desk Nippon Travel Agency Co.,Ltd  
TEL:81-3-5565-9895, FAX 81-3-5565-9899

## 8. Hotel Accommodation visit: <https://apollon.nta.co.jp/ozone2009-eh/>

## 9. Preliminary Technical Program (Tentative on April 1) IOA International congress in 2009

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

※ Simultaneous Translation will be prepared in Room 1.

## Presentation Programme (Tentative on April 1)

This programme is tentatively made for associated persons to understand presentation contents.

The presentation date and time and order of each paper will be changed because only persons who register with registration fee before May 31 can present and be recorded in the final programme.

### Sept. 1 (Tuesday) p.m 13:30~18:30

#### Session [17] at Room 1

○ UV (Oguma)				
【Key note speech】				
145	UV treatment of water in Japan; applications, situations and developments	Ritsumeikan University	Naoyuki Kamiko	Japan
【General presentation】				
24	UV/TiO <sub>2</sub> for Removing Taste and Odour Compounds in Drinking Water: Influence of Water Composition and Destruction Mechanism	The University of Newcastle	Hoang N Tran	Australia
38	Investigation of generation mechanisms of nitrite in UV irradiation	Ritsumeikan University	Nobuhito YASUI	Japan

39	Hydraulic optimization of a single UV lamp placed perpendicular to the flow direction		B.A. Wols	Nederland
48	Research on the Actinometer Corresponding to High Dose Range	Iwasaki Electric Co. Ltd.	Yuuko Hiroto	Japan
56	Distribution characteristics of light source in ultraviolet band	Japan Photo-science Corporation	Yuji Yamakoshi	Japan
58	Photo-transformation of amoxicillin during UV treatment and toxicological assessment of its intermediates	Yonsei University	Joon-Wun Kang	Korea
60	Growth inhibition of indigenous Microcystis species in a lake using a medium-pressure UV treatment system	The University of Tokyo	Hiroshi SAKAI	Japan
121	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**

<b>○ Emerging Contaminants</b>		(Suzuki, Ikehata)		
【Key note speech】				
122	Role of ozonation in the destruction of EDCs and Pharmaceuticals	Applied R & D Center	Shane Snyder	USA
61	Application of O <sub>3</sub> and O <sub>3</sub> /UV processes for the removal of PPCPs in secondary treated water Energy consumption for the refractive PPCPs removal	Kyoto University	Iiho Kim	Japan
【General presentation】				
2	Removal of Bisphenol A from aqueous solution by ozonation	San Diego State University	Temesgen Garoma	USA
101	Removal Characteristics of EDCs by Ozonation	Kyoto University	Hiroshi TSUNO	Japan
35	Perovskite catalytic ozonation of some pharmaceutical compounds in water	Universidad de Extremadura	P. Pocostales	Spain
88	REMOVAL OF PROPRANOLOL IN AQUEOUS PHASE BY OZONATION	Universitat de Barcelona	Renato F. Dantas	Spain
127	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
22	PEROXIDATION OF CHLOROPHENOLS IN SOIL	Tallinn University of Technology	Anna Goi	Estonia

**Session [3] at Room 3**

<b>○ Industrial Application</b>		(Kuzumoto, Nishijima, Lezmik, Liechti)		
【Key note speech】				
73	Ozone: Science & engineering 30 years of progress	Ozone science & engineering	Barry L. Loeb	USA
【General presentation】				
8	Direct Plasma Degradation of Perfluorooctanoic Acid in Gas-Liquid Two-Phase Flow Reactor	Tokyo Institute of Technology	K. Sasaki	Japan
9	Decomposing Mechanisms of Persistent Organics in Water Using Direct Plasma Method	Tokyo Institute of Technology	Koichi Yasuoka	Japan
16	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	ECONOMIC AND ENVIRONMENTAL BENEFITS OF OZONE IN OZONE LAUNDERING SYSTEMS			
17	MICROBIOLOGICAL BENEFITS OF OZONE IN OZONE LAUNDERING SYSTEMS			
20	Ozone application for chamois leather making	Dr.Mahalingam College of Engineering and Technology	V. Lakshminarayanan	India
21	Two tone leathers using Ozone			
44	Super-hydrophilization of Stainless Steel Surface by the Combined Use of Gaseous Ozone and Heat	Industrial Technology Center of Okayama Prefecture	Kazuhiro Takahashi	Japan
59	Densification of CVD-SiO <sub>2</sub> film using high-density ozone treatment	Mitsubishi Electric Corporation	Kazumasa KAWASE	Japan

**Sept. 2 (Wednesday) a.m 9:00~12:05**

**Session [4] at Room 1**

<b>○ Municipal Wastewater Treatment</b>		(Murakami, Thompson)		
【Key note speech】				
111	State of ozonation to municipal wastewater treatment in Japan	Japan Sewage Works Agency	Toshikazu Hashimoto	Japan
23	Ozone treatment of secondary effluent at US municipal wastewater treatment plants	MWH Americas	Michael A. Oneby	USA

【General presentation】				
67	The potential use of ozone in municipal waste water	ITT-WWW WEDECO	A. Ried	Germany
89	Ozonation of municipal secondary effluent	University of Barcelona	B. Domenjoud	Spain
137	Treatment efficiency and operational parameter of ozonation of secondary effluent	Japan Ozone association	Hirofumi Takahara	Japan
128	Development of Ultra-advanced Sewage Treatment by Compound Oxidation using Advanced Oxidation Process	Takuma Co. Ltd.	Tomoyuki Doi	Japan
32	Demonstration research of micro-bubbling system of ozone for reuse of treated sewage	Hitachi Co. Ltd.	Misaki Sumikura	Japan

**Session [5] at Room 2**

○ Advanced Oxidation Process (Nakayama, Adams)				
【Key note speech】				
138	Review and perspective in application of advanced oxidation process	Japan Ozone association	Shigeki Nakayama	Japan
【General presentation】				
26	The investigation of ozone/hydrogen peroxide treatment after coagulation and edimentation in drinking water plant	Mitsubishi Electric Corporation	N. Yasunaga	Japan
29	Simultaneous Control of Bromate Ion and Chlorinous Odor in Drinking Water using Advanced Oxidation Processes (O3/H2O2)	Kyoto University	Songkeart Phattarapattamawong	Japan
100	O3/H2O2 process for both removal of odors and control of bromate ion formation	Kyoto University	Shinya Ohara	Japan
68	Advanced Oxidation Process – effective and technical suitable for Micropollutant Removal in contaminated Water Sources	ITT-WEDECO GmbH	Dr Achim Ried	Germany
40	Diclofenac removal by UV and UVA/O3 processes	Universidad de Extremadura	Juan F. García-Araya	Spain
49	Effects of addition of hydrogen peroxide and/or calcium carbonate on ozone-decomposition of phenol or chlorophenol sparingly dissolved in water	Kansai University	Katsuhiko Muroyama	Japan
135	A new catalyzed ozone process on water treatment	Applied Catalyst Tech.	S.-J. Lin	Taiwan

**Session [6] at Room 3**

○ Byproducts and Control (Kosaka, Dimitriou)				
【Key note speech】				
109	Results of the AWWARF IOA bromateresearch project	Jacobs Engineering	Michael Dimitriou	USA
139	Ozonation byproducts in Japan	Kyoto University	Shinya Echigo	Japan
【General presentation】				
123	Decomposition of bromate by biological activated carbon	Chinese Academy of Sciences	Min Yang	China
102	Behaviors of halogenated compounds during pre-chlorine, ozone and post-chlorine treatment	Kyoto University	Eri Hasegawa	Japan
30	An Australian Perspective of Ozone/BAC Process for Reducing Disinfection By-product Precursors in Organics-laden Water	Hunter Water Australia Pty Ltd	Yaode Yan	Australia
5	Toxicity and Formation of Oxidation Byproducts Generated during Ozonation of Natural Water Containing Pesticide	University of Alberta	Pamela Chelme-Ayala	Canada
72	Identification of N-nitrosodimethylamine precursors on ozonation from influent of a sewage treatment plant	National Institute of Public Health	Koji Kosaka	Japan
124	Formation of aldehydes formed during ozonation of secondary effluent from a sewage treatment plant and their ecological effect	Research Center for Eco-environmental Science	Min Yang	China

**Session [7] at Room 5**

○ Ozone Generation (Ito, Kogoma)				
【Key note speech】				
140	State of the art of ozone generation technologies in Japan	Chiba Institute of Technology	Haruo Ito	Japan
【General presentation】				
12	The Influence of Adsorbed Gas Layers on the Electrodes on Ozone Yield Efficiency	The Kansai Electric Power Company Inc.	Akira Murai	Japan
14	Long Time Operation of An Ozonizer with a Rotating Type Electrode	Saga University	Sebastian Gnapowski	Japan
11	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
69	Higher energy efficiency of O3 generation by shorter pulse power	Kumamoto University	Sho OKADA	Japan
70	Ozone generation using nano seconds pulsed discharge	Kumamoto University	Takao MATSUMOTO	Japan

84	IGS (Intelligent Gap System) Dielectric Technology for Large-Scale Ozone Generators	Saint Peter's College	Jose L. Lopez	USA
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**Session [Medical 1 ] at Room 4**

○ <b>Pharmacological Aspects of Medical Ozone: Reaction Mechanism, Mechanisms of Action, Biological Models, Animal and Cell Models</b>				
【Keynote Lecture】				
	Low-Dose Medical Ozone as a Bioregulator. "Ozone Peroxide" as Second Messenger Molecule?	Dr.J.Hänsler GmbH Iffezheim/Baden-Baden,		
	Ozone Oxidative Postconditioning efficacy on the Prolapse and Protrusion Phases in Patients with Hernia Disc	FEMANDEZ Olga Sonia León, Marelis Pantoja, Luis Ledesma, Renate Viebhan, Lamberto Re, Silvia Menéndez, José L. Calunga		
	Effect of Ozone Oxidative Preconditioning on Oxidant Status of Adjuvant Arthritic Rats	MAUSUF M. Nabil, Maha. M. El-Sawalhi, Hebatalla A. Darwish and Amira A. Shaheen		
	Ozone Therapy for Dogs and Cats	SHIMIZU Nashiku, Noriko Shimizu, Makoto Washizu		
	Understanding the Molecular Actions of Ozone. Ozone in Medicinal Research	OLIVER Douglas W, C.B. Brink, D.P. Venter, B.P.J. van Niekerk, A. Pretorius and J. Lotriet		
	Ozone Oxidative Postconditioning in Acute Renal Failure	MENENDEZ Silvia, José Luis Calunga, Zullyt Zamora, Nelson Merino, Teresa Montero and Yaima Alonso		

**Sept. 2 (Wednesday) p.m 13:30~18:30**

**Session [8] at Room 1**

○ <b>Municipal Wastewater Treatment</b> (Murakami, Thompson)				
【General presentation】				
75	Ozone application during APT coagulation of wastewater: Effects on Dissolved Organic Matter	UNAM	M.T. Orta de Velásquez	Mexico
10	The Study on the Ceramic Membrane Wastewater Reuse System with Pre Ozonation and Coagulation	Metawater Co. Ltd.	M. Noguchi	Japan
78	COAGULATION – FLOCCULATION AND OZONATION OF MUNICIPAL WASTEWATERS FOR REUSE IN AGRICULTURAL IRRIGATION.	National Center of Science Research	Eliet Véliz Lorenzo	Cuba
118	The Enhancement of Permeation Efficiency in Ceramic Membrane Bio-reactor by Ozone	Hiroshima University	T.-Y. Tsai	Japan
120	Treated Water Quality Enhancements from Ozonation/Biologically Active Filtration in a Tertiary Plant Upgrade	Melbourne Water Corporation	John Mieog	Australia
125	Treatment Characteristics of Wastewater Containing Phenol and Reaction Mechanism by Ozone-Added Activated Sludge Process	Kyoto University	Fumitake NISHIMURA	Japan
81	Updating an Existing Wastewater Ozonation System with Generators and Sidestream Injection	Black & Veatch	Jeff Neemann	USA
108	Application examples of ozonation for reuse of treated sewage in Tokyo	Sewage Works Bureau of Tokyo	Yoshitake Yoda	Japan
126	Installation and operation of full-scale ozonation facility to sewage treatment plants in Kyoto City	Sewage Works Bureau of Kyoto City	Haruki Mizutani	Japan
141	Super advanced treatment with ozone and BAC in Lake Biwa basin-wide Sewage system	Shiga Prefecture	S. Nishimura	Japan
【Poster presentation】				
142	Reuse of treated sewage by application of ozone in Yokohama City	Yokohama City		Japan

**Session [9] at Room 2**

○ <b>Advanced oxidation process</b> (Nakayama, Adams)				
【General presentation】				
51	THE ADVANCED OXIDATION PROCESSES WITH OZONE, OZONE-UV, AND OZONE-UV.H2O2 AN ALTERNATIVE FOR TREATMENT OF 2,5-DICHLOROPHENOL.	Universidad Autónoma Metropolitana – Azcapotzalco	Clementina Ramírez-Cortina	Mexico
52	PHYTOTOXICITY OF INTERMEDIATE COMPOUNDS OF PHENOL OXIDATION WITH OZONE AND OZONE-UV			
71	Water Treatment System Using discharge in Water Cavitation	Saga University	Satoshi Ihara	Japan
105	Effect of ozone-gas bubble size and pH on ozone/UV treatment	Ryukoku University	Naoyuki Kishimoto	Japan
117	Decomposition of 1,4-dioxane by ozone and advanced oxidation process	Sumitomo Precision Product	Shinya Tasaka	Japan

**Session [10] at Room 2**

○ Agriculture-food-beverage Application (Naito)				
【General presentation】				
36	OZONATION OF IMIDACLOPRID AND BITERTANOL: REACTION MONITORING AND EFFECTS ON CYTOTOXICITY	Université de Toulouse	M.Bourgin	France
37	DEGRADATION OF DEOXYNIVALENOL BY OZONATION TREATMENT: BY-PRODUCT AND GENOTOXICITY CHARACTERIZATION	Université de Toulouse	F.Violleau	France
50	Removal of Odorous Compound on Rubber Seals using Ozone in Beverage Industries	Hiroshima University	Tetsuji Okuda	Japan
28	Ozone Inactivation of food spoilage acid-producing bacteria	Aichi Gakuin College	SIGezo NAITO	Japan

**Session [11] at Room 3**

○ Industrial Application (Kuzumoto, Nishijima, Lezmik, Liechti)				
【General presentation】				
80	Application of Ozone and Hydrogen Peroxide (O <sub>3</sub> + H <sub>2</sub> O <sub>2</sub> ) AOP (Advanced Oxidation Process) Treatment to Modify the Surface Characteristics of Single-Walled Carbon Nanotubes (SWNTs)	R&D Institute of KOLON EFMC	Hyung-Nam Lim	Korea
62	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	Y. Yagyū	Japan
65	ACID LEACHING OF CHALCOPYRITE WITH OZONE AND FERRIC IONS: TAGUCHI EXPERIMENT AND STATISCAL ANALYSIS	Universidad Autónoma de Coahuila	F. R. Carrilo-Pedroza	Mexico
76	Structural characterization by Nuclear Magnetic Resonance of ozonized triolein	National Center for Science Research	Maritza F. Díaz	Cuba
104	Development of Treatment Technique for Corrosion Inhibitor in Liquid Waste from Nuclear Power Plant Using Ozone	Toshiba Corporation	Yuki YAHIRO	Japan
57	Effect and optimization of CO <sub>2</sub> partial pressure during ozone water production	Nomura Micro Science Co.,Ltd	Takahiro Yonehara	Japan
93	Measurement of dissolved ozone concentration with multi-component continuous water analyzer	Ebara Jitsugyo Co. Ltd	Yoshio Sato	Japan
133	Ozone Measurement Based on optical Absorption Using a Visible LED Source	The Univ. of Tokushima	F. Fukawa	Japan
94	Simple ozone-leak monitor with ultra-violet absorbance system	Ebara Jitsugyo Co. Ltd	Nobuyuki Kisaki	Japan
110	Measurement of ozone concentration distribution around small air deodorizer using developed ozone detection ribbon	NTT Energy & Environment System Labs	Yasuko Y. Maruo	Japan

**Session [12] at Room 5**

○ Ozone Generation (Ito, Kogoma)				
【General presentation】				
95	Studies on Discharges Mechanism of Micro-plasma Ozonizer Operated in Water	University of Miyazaki	Tatsuya Sakoda	Japan
103	Fundamental Study of Barrier Discharge and Ozone Generation Characteristics for Multiple Needles to Plane Configuration	University of Hyogo	Hideki Ueno	Japan
115	Miniaturized ozone generator for deodorization using ferroelectric LiTaO <sub>3</sub> crystal	Doshisha University	Yoshikazu Nakanishi	Japan
116	Reduction of Nox on Air-Fed Ozonizers Using Ferroelectric Packed-bed plasma Reactor	Musashi Institute of Technology	Yoshiyasu Ehara	Japan
131	Effect dielectric electrode material on ozone generation in piezoelectric transformer-based ozone generator	The Univ. of Tokushima	K. Teranishi	Japan
132	Consideration on configuration of parallel reactors for ozone production using nanosecond pulsed power discharge	The Univ. of Tokushima	Fumiaki Fukawa	Japan
【Poster presentation】				
27	An Ozone-zero Phenomena in Pure Oxygen in Ozone Generation	Saga Univ.	C. Yamabe	Japan

**Session [13] at Room 5**

○ Ozone Solubilization and Decomposition (Mizuno)				
【Key note speech】				
143	Absorption and decomposition characteristics of high concentration ozone	Kyoto University	Tadao Mizuno	Japan

【General presentation】				
31	Model Development of Ozone Decomposition: Validation Using Pure Compounds as Initiator, Promoter and Inhibitor	National University of Singapore	E. L. Yong	Singapore
106	Decomposition behavior of dissolved ozone in high temperature solution for decontamination of Reactor Pressure Vessel in a Nuclear Power Plant	Toshiba Corporation	Yumi YAITA	Japan
45	Mass Transfer and Reaction Characteristics of Pressurized Non-Bubble Ozone Contactor	Kyoto University	Shota Furusawa	Japan
113	Study on ozone absorption characteristics in ultraviolet rays / ozone reactor.	Kubota Corporation	Kodai Yoshizaki	Japan

**Session [Medical 2] at Room 4**

○ Clinical Reports and Treatment Strategies: Angiopathia, Diabetes and Chronic Inflammatory Diseases				
【Keynote Lecture】				
	The intensive Care of Lower Limb Diabetic Wounds: our 10 Years Experience in Patients Treated Topically with Ozone as Adjunctive Agent.	Noam Calderon, Teddy Kaufman, Leonid Bryzgalin, Munir Awad		
	Adjuvant HBO and Ozone in Diabetic Foot & Badly Healing Wounds	MAWSOUF M. Nabil, FATHI Ahmed M		

**Session [Medical 3] at Room 4**

○ Clinical Reports and Treatment Strategies: Virus Cased Diseases and Complementary Oncology				
【Keynote Lecture】				
	Ozone Therapy in Cancer Treatment . State of the Art	Silvia Menéndez		

**Sept. 3 (Thursday) a.m 9:00~12:05**

**Session [14] at Room 1**

○ Sludge Treatment (Yasui, Liechti)				
【Key note speech】				
4	Power production from municipal sludge using improved anaerobic digestion system	The university of Kitakyuusyuu	Hidenari Yasui	Japan
【General presentation】				
3	Reduction of sewage sludge and recovery of phosphorus by the ozonation/cavitation method	The university of Kitakyuusyuu	Seiichi Ishikawa	Japan
7	Evaluation of Multistage Anaerobic Digestion Systems combining Ozonation, Mesophilic Digestion and Thermophilic Digestion	Tohoku University	Takuro KOBAYASHI	Japan
98	Ecological Treatment System for River Sludge Sediments using Air & Ozone Bubbling	Shimizu Corporation	Sumio Horiuchi	Japan
99	OZONE POST TREATMENT OF SOLID WASTES	National Center for Science Research	Matilde López Torres	Cuba
144	Verification of sludge reduction by ozonation with phosphorus recovery conducted at the demonstration plant	Ebara Corporation	Kiyomi Arakawa	Japan
129	Performance of sludge disintegration process by ozonation installed in full-scale municipal WWTPs in Japan	Japan Sewage Works Agency	Kentaro Mizuta	Japan
【Poster presentation】				
134	Actinomyces Scum Control-Technology for correcting treatment problems by ozone addition	Kawasaki City	Takashi Okochi	Japan

**Session [15] at Room 2**

○ Air and Gas Treatment (Sugimitsu)				
【General presentation】				
90	Cooking exhaust deodorization of food processing factory & restaurant with Water Mist & Ozone	Keihin Sangyo Co. Ltd	Noriyoshi Kosaka	Japan
114	Effect of Different Combination of Metal and Zeolite on Ozone Assisted Catalysis for VOC Removal	National Inst. of Advanced Industrial Sci. & Tech.	Masami Sugawara	Japan
42	VOC removal in a compact wet scrubber using advanced oxidation process	Université européenne de Bretagne	P.-F. Biard	France
33	Decomposition of Benzene, MTBE and Toluene in Gas Phase by Ozone	National Polytechnic Institute	M. Franco	Mexico
18	Removing Nox Process Having Water Absorption Filter and Effect of Ozone Oxidation	Toda Electric Co. Ltd	Shiro Yamauchi	Japan

107	Catalytic Decomposition of Unwanted Ozone under Ambient Conditions	Carus Corporation	Ken Pisarczyk	
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**Session [16] at Room 3**

<b>○ Industrial Wastewater Treatment</b> (Takahashi, Tuyen)				
<b>[Key note speech]</b>				
85	Ozonation of dye stuffs and intermediates and further decrease in dissolved organic carbon by post-biogeogradation	National Institute of AIST	Nobuyuki Takahashi	Japan
<b>[General presentation]</b>				
6	Effect of the Additives on the Degradation of Dyes in Aqueous Solution by Single Ozonation	National Polytechnic Institute	A. Perez	Mexico
86	The experimental results of dyeing wastewater treatment by ozonation and biological method	Vietnamese Academy of Sci. & Tach.	Trinh Van Tuyen	Vietnam
47	Dyeing Wastewater Treatment Using Charcoal Made of Vietnamese Bamboo Waste	Meisei Univ.	S. Yoshizawa	Japan
74	MELANOIDINS OZONATION FOR COLOR REMOVAL AND ANAEROBIC BIODEGRADABILITY ENHANCEMENT	INRA, UR 50, Laboratoire de Biotechnologie de l'Environnement	BATTIMELLI Audrey	France
64	CYANIDE REMOVAL FROM AQUEOUS SOLUTIONS BY COMBINED EFFECT OF OZONE AND ACTIVATED CARBON	Univ. Autonoma of San Luis Potosi	F. Fraga-Tovar	Mexico
55	OXIDATION OF PETROLEUM REFINERY WASTEWATER CONTAINING PHENOLIC COMPOUNDS	Univ. of National Autonoma of Mexico	Lazcano-Arriola Luz Maria	Mexico

**Session [Medical 3] at Room 4**

<b>○ Clinical Reports and Treatment Strategies: Virus Cased Diseases and Complementary Oncology</b>				
<b>[General presentation]</b>				
	Anti-tumor Effect of Ozone Water	OKAMOTO Yoshiharu, Takuro Mori, Takeshi Tsuka, Masahiiko Sugiyama, Saburo Minami, Toru Kitamura, Harunari Okamoto		
	Intratumoral Ozone Therapy - An Important Step in Improving the Control of Tumor Growing	SCHUPPERT, A .		
	Ozone Therapy in Patients with Viral Hepatitis "C". Ten Years Experience	MAWSOUF M. Nabil and T. Tanbouli		
	Efficacy of Ozone Therapy for Postherpetic Neuralgia (PHN)	TOKUYAMA Hirobumi, Chikaaki Kusaka, Tsutae NAGATA, Nariko Shinriki		
	Clinical Comparative Study of Ozone Therapy and Guideline Therapy in Pressure Ulcer	UEMURA S., T. Ichihara, A. Watanabe, K. Nakahara, T. Yoshimi, J. Uemura		
	Ozonated Olive Oil Enhances the Growth of Granulation Tissue in a Mouse Model of Pressure Ulcer	SAKAZAKI Fumitoshi, Hiromi Kataoka, Masanori Senma, Tomofumi Okuno, Hitoshi Ueno, Katsuhiko Nakamuro		
	Components and Anti-inflammatory Action Mechanism of Ozonized Olive Oil	MIURA Toshiaki, Atsushi Iwai, Koichi Tamoto, Akinori Yamazaki, Hiromi Nochi		

**Sept. 3 (Thursday) p.m 13:30~18:30**

**Session [17] at Room 1**

<b>○ Water Purification</b> (Funamizu, Dimitriou, Sakuma)				
<b>[Key note speech]</b>				
1	Operating Experience with Drinking Water Ozonation in North America	Process Applications, Inc.	Kerwin L. Rakness	USA
<b>[General presentation]</b>				
34	Evaluation of the raw and process water in the purification plant by Fluorescent Intensity	Ochanomizu University	Nobuyushi Kaiga	Japan
92	The reactive art of Quenching Ozonated Water	Salt Lake & Sandy	Gardner Olson	USA
136	Appropriate ozonation system in water purification plant	Japan Ozone Asso.	Hirofumi Takahara	Japan
25	Application and operation of high-efficiency ozonation system in combination of pure-oxygen ozonizer and U-tube reactor	Hansin Water Works Agency	Kazuo Ogura	Japan
82	Design of a 2,900 MGD Ozonation System For Taste and Odor Control in Texas	Black & Veatch	Jeff Neemann	USA
91	Application of an advanced water purification(ozonation) system at Murayama Water Purification Plant in Tokyo	Bureau of Waterworks Tokyo Metropolitan Government	Hiroshi Yamada	Japan



## Session [18]

at Room 2

○ Disinfection (Otaki)				
【Key note speech】				
119	Ozone Inactivation of viruses- More to it than CT alone	Melbourne Water Corporation	Clare McAuliffe	Australia
【General presentation】				
54	WATER DISINFECTION OPTIMISATION: AN ANALYTICAL MODEL TO DETERMINE HYDRAULIC EFFICIENCY OF OZONE CONTACTORS	Veolia Water Technical Department	Yves Jaeger	France
13	Disinfection and removal of biofilms using ozone in combination with hydrogen peroxide	Nihon University	Mariko Tachikawa	Japan
41	QUANTIFICATION OF THE BACTERICIDAL, FUNGICIDAL, AND SPORICIDAL EFFICACY OF THE JLA LTD OZONE LAUNDERING SYSTEM	MGS Laboratories, Science Centre	Kyle Allison	UK
79	OZONE APPLICATION FOR POSTHARVEST DISINFECTION OF TOMATOES	Centro Nacional de Investigaciones Cientificas	Mayra Bataller	Cuba
66	Treatment of antibiotics and antibiotic resistant bacteria in manure and water with ozonation process	Bogazici Univ.	Isil Akmehmet Balcioglu	Turkey
83	Disinfection of Pure Water by means of Direct Ozonation Using Membrel® System	Degremont Technologies Ltd	Dr. Fabio Krogh	Switzerland

## Session [19]

at Room 3

○ Industrial Wastewater Treatment (Takahashi, Tuyen)				
【General presentation】				
53	PHENOL OXIDATION WITH OZONE AND OZONE-UV-H2O2	Univ. Autonoma of Metropolitana-Azcapotzalco	Ramírez-Cortina Clementina R	Mexico
43	OZONE OXIDATION OF STRIPPED SOUR WATER FROM A MEXICAN REFINERY	Univ. National Autonoma of Mexico	Gutiérrez-Lara Ma. Rafaela	Mexico
112	Application of Advanced Wastewater Treatment Techniques To The Low Type Grease-Interceptor	OPPC Co. Ltd.	T. Kurata	Japan
63	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
77	Landfill leachates treatment by coagulation-flocculation-ozonation process	National Center of Science Research	L. A. Fernandez	Cuba
97	Mitigating Environmental Impact Of Gold Mine Wastewater Cyanide Through Ozone Oxidation	Mazzei Injector Company	James R Jackson	USA

## Session [Medical 4]

at Room 4

○ Clinical Reports and Treatment Strategies: Ozone in Pain Management, Intraarticular and Intradiscal Injections, Trigger Points, Rheumatology				
【Keynote Lecture】				
	Ozone Therapy for Fibromyalgia Syndrome (FMS) and Spinal Canal Stenosis		Tsutae Nagata	
	Fibromyalgia - A Controlled Clinical Study with Ozone vs Local Anesthetic		Fahmy, Z	
	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 Radiiculopathy		Lehnert, Th. M.G. Mack, T.J. Vogl	
【General presentation】				
	Ozone Therapy: A Clinical Study on Pain Management	RE L, G. Martinez-Sanchez, G. Malcangi, A. Mercanti i V. Labate i		
	Treatment of Lumbodinya and Sciatica with Ozone Therapy	ALEJANDRO Ortiz , Alcantara-Canseco Cesar		
	Postoperative Pain Relief by Ozone Therapy in Patients Undergone Hemorrhoidectomy	Hiroshi Gotoh		
	Development of Small-sized Generator of Ozone-dissolved Water Using Boron Doped Diamond Electrodes	NISHIKI Y., N. Kitaori, K. Nakamuro, and M. Tanaka,		

**Medical Session Sept 2-3**

【Poster Program】			
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
2	Change of Lipid Exchange Indices of Patients with Arterial Hypertension under the Influence of Ozone	L.A. Kosova, A.N.Serova, G.I.Glelitsky, I.G. Tsigankova, M.A. L.A. Kosova, A.N.Serova, G.I.Glelitsky, I.G. Tsigankova, M.A. KurbatovKurbatov	Russia
3	The System of Complex Control of Human Fitness Underapplication of Ozone Therapy When Treating Different Diseases	M.A. Kurbatov, A.N.Serova, G.I.Glelitsky, I.G. Tsigankova, L.A. Kosova	Japan
4	The Efficiency Estimation of Ozone Therapy at Patients with Pathological Seams on Indicators Radioactive Nuclide Researches of a Tissual Blood Flow.	I.I.Shevelev, P.I.Koshelev	Russia
5	Analgesic Effect of the Ozone in a Study Carried in 775 Patients with the Diagnoses of Arthrosis	Dr. Rolando L. Wong Molina	Cuba
6	Study of Sanogenetic Action of Ozone by Digital Holographic Interference Microscopy	T.M. Barkhotkina	Cuba
7	Analysis of Perspectivity of Ozone Technologies Use in Otorhinolaryngology	T.M. Barkhotkina	Ukraine
8	Neurocirculatory Dystonia with Syndrome of Venous Hypertension	A.V. Vorobyov, V.A. Shikhragimov, S.P. Peretyagin, A.K. Martusevitch, A.A. Struchkov	Russia
9	Ozone Application for Correction of Oxygen Homeostasis Disorders in Early Period of Burn Disease	A.S., Kostina O.V	Russia
10	New Methods of Ozonotherapy	H.Stolyarenko, V.Viazovik, A.Gromiko	Ukraine
11	Diabetes Mellitus T-II Treated by Ozone Therapy	atyana Poznyak, Fabio Antunez, Alejandro García and Isaac Chairez	Mexico.
12	Experimental Toxicology of Ozone Therapy by Rectal Insufflation Via	Frank Hernández	Cuba.
13	Erythrocyte Enzymatic Activity and Serum Crystallogenic Properties of Ozonated Blood:in vitro Experiments	A.K. Martusevich, Yu.V. Zimin, A.G. Solovyova, S.P. Peretyagin, P.V. Peretyagin	Russia.
14	Stimulate Antioxidant System in Peritoneal Sepsis Induced in Rats.	Zamora Za, Guanche Da, González Ra, Hernández Fa, Alonso Ya y Schulz Sb	Cuba,Germany.
15	The Markers of Condition Vessels Endothelium of Patientswith Burning Trauma before and after Ozonotherapy	I.E.Okzut, C.N.Kontorschikova	Russia.
16	Change in Biochemical Parameters after Metabolic Disorders Correction by Low Ozone Doses	Efremenko J.R., Kontorschikova C.N., Koroleva E.F., Vedunova M.V., Radaeva M.V	Russia.
17	Pathogenetic Justification of Ozonotherapy Usage in Gynecological Patients after Surgery	O.S. Yanchenko, K.A. Korovushkina, E.U. Kontorschikova	Russia.
18	The Influence of Combined Treatment and Ozone Therapy Effecy on the Contense of Zinc, Copper and Iron in Patients with Breast Cancer	C.N.Kontorschikova, A.V.Alasova, S.V.Tzybusov, I.G. Terentiev, B.E.Shakhov	Russia.
19	The History of Ozone Therapy in Japan	Nariko Shinriki, Mitsuo Ohsawa, Noboru Obi, Tohru Taguchi	Japan
20	Hematological Study of Healthy Man Treated by Major Autohemotherapy with Ozone for Five Years	Nobuo Sugihara, Yashuna Shibata, Takako Emoto, Shizuka Obigane, Fumitoshi Sakazaki and Katsuhiko Nakamuro	Japan
21	Safety and EffectivenessEvaluation of Ozone Gel	Gotaro Shiota,Akihiko Shiba	Japan
22	Current State and the Future of Treatment with Ozone Water	Gotaro Shiota	Japan
23	Proinflammatory Event of Ozonized Olive Oil in Mice	Hiromi Kataoka' , Masanori Semma' , Humitoshi Sakazaki, Katsuhiko Nakamuro,Tadashi Yamamoto, Seiichi Hirota, Keiko Tazuya-Murayama4 and Atushi Ichikawa	Japan.
24	Toxicological Study of Low Concentration Level-ozonated Water	Katsuhiko Nakamuro, Fumitoshi Sakazaki and Takaya Fji.	Japan
25	Oleozon® in Human Papilloma Virus	Silvia Menéndez and lAndrés Oscar Torres	Cuba
26	Ozone Oxidative Postconditioning in Acute Renal Failure	José Luis Calunga, Silvia Menéndez, Zullyt Zamora, Nelson Merino, Teresa Montero and Yaima Alonso	Cuba
27	Ozone Oxidative Preconditioning and Postconditioning in Acute Nephrotoxicity Induced by CisplatinN in Rats	Silvia Menéndez, Ricardo González, Zullyt Zamora, Aluet Borrego, Frank Hernández and Teresa Montero	Cuba
28	Ozone Therapy in Patients with Pulmonary Emphysema	Silvia Menéndez, José Luis Calunga,Yuleidys Paz and Alfredo Martínez-Aparicio	Cuba
29	Ozone Therapy in the Treatment of Herniated Disk	José Luis Calunga, Silvia Menéndez, and Alberto Balbín	Cuba
30	Development of New Surfactant with Antifungal Property	Akinori Tanaka	Japan
31	Disinfection Effect by Ozone Gas and Application Examination to Linen Materials	Yasuo nakamura, Hiroshi takagi, Yukihiro kamase	Japan

32	Application Research on Ozone Water to Endoscope Disinfection	Takashi Urano, kazuhiro nakazawa, Yukito endo, Yukihiro kamase	Japan
33	Sterilization with Ozone in a Clean Room of Pharmaceutical Manufacturing Facility	Noriyoshi Kosaka, Shinichiro Okuda, Fumitoshi Kadowaki	Japan
34	Survival of Noroviruses in Yodo River and Inactivation of Norovirus in Water by Ozone.	Kenji Yamazaki and Katsuhiko Nakamuro	Japan
35	Bactericidal Effect of Low-Level Dissolved Ozone to Legionella pneumophila	Hitoshi Doi, Katsuhiko Nakamuro, Toshie Hizuka and Akiko Edagawa	Japan
36	Microbiological safety of the bath water using a newly developed ozone treatment filtration system (Kanozo system)	C. Terao, N. Doi, S. Ishizuka, R. Terao and K. Nakamuro	Japan

## Discussion

Summarizing the whole meeting by Renate Viebahn

Closing

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