

International Ozone Association - PAG Orlando Conference 2008

Monday 25 August 2008

Monday AM - General Opening Session (Coronado Ball Room)

Start End

8:15 9:30 IOA Chair Introduction and Guest Speakers
9:30 10:15 Coffee Break



Monday AM (Two Parallel Sessions)

Session 1 - Drinking Water Process

25-Aug-08

Start	End	Title	Authors
		Trihalomethane Reduction Using Ozonation	Glenn Dunkelberger from Reiss Environmental and C. DiGerlando from Orange County Utilities
		Effect of Pre Ozonation on Particles and Organic Matter Removal with Ferric Chloride Coagulation	Ali Torabian and Masoud Negahban Azar from the University of Tehran Department of Environmental Engineering, Faculty of Environment and Abdollah Rashidi Mehrabadi from the Department of Water Engineering, Power and Water University of Technology
		Effects of Pre Ozonation vs. Pre Chlorination on Total Organic Carbon Removal in Drinking Water Treatment	Ali Torabian and Masoud Negahban Azar from the University of Tehran Department of Environmental Engineering, Faculty of Environment and Abdollah Rashidi Mehrabadi from the Department of Water Engineering, Power and Water University of Technology
		Investigation of the Effects of Ozone on Organics Removal and THMs Reduction for a Groundwater Source	S. Ndongue, S. Jasim, and D. Borikar from the Walkerton Clean Water Centre

Session 2 - Equipment

25-Aug-08

Start	End	Title	Authors
		New Developments in Electrochemical Ozone Sensors & Ozone Calibrators	Lawrence B. Kilham, Dan Ebeling, and Joseph R. Stetter from Eco Sensors, Div. of KWJ Engineering, Inc
		A Study of Composition of Ozone on the Surface of the Metal Electrode Supplying Pure Oxygen	Akira Murai from The Kansai Electric Power Co., Inc. and Chobei Yamabe and Satoshi Ihara from the Saga University Department of Electrical and Electronic Engineering
		Case Studies of Corrosion and Preparation of Ozone Systems	Michael Daiglish and Daryl Roll from Astro Pak Corporation

Monday PM (Three Parallel Sessions)

Session 3 - Drinking Water Process

25-Aug-08

Start	End	Title	Authors
		Update on Using Ozone to Reduce Hydrogen Sulfide in Groundwater	Stephanie J. Bishop, Bobby Bennett and Jack Bebee from Malcolm Pirnie, Inc.
		Hydrogen Sulfide Removal Comparison – Ozone versus Chlorine	Mandy Jackman, Kevin Dixon, Ervin Myers, and Rachel Copeland from Black & Veatch and Christine Owen and Mindi Rice from Tampa Bay Water
		OCU Ozone System Design for Treatment of Hydrogen Sulfide	David Friess, Nick Burns and Tom Cummings from Black & Veatch, Christophe Roberts from Reiss Environmental and Charles Digerlando from Orange County Utilities
		Enhancing Ozone Facilities for Primary Disinfection in Henrico County VA	Bill Dowbiggin from CDM and Russ Navratil and Chip England from Henrico County
		Evaluating Design Improvements for an 18-Year Old Ozone System to Meet New Disinfection Requirements	Christopher R. Schulz from CDM Denver, Larry Smith from CDM Philadelphia, and Richard Farmularo from the New Jersey Water Supply Authority
		Modeling and Validating the Effective Hydraulic Detention Time for a 10 mgd Ozone Contactor at the Lake Washington Water Treatment Plant, Melbourne, FL	David Phares from the City of Melbourne, Water Production and David Rokjer, Joe Franko and Ian A. Crossley from Hazen & Sawyer P.C.
		Evaluating Hydraulic Implications of Adding Ozone to Conventional Water Treatment Plants	Ben Kuhnel, Markus Mohrle and Jack Bebee from Malcolm Pirnie, Inc. and Iraj Asgharzadeh from the City of San Diego
		Impact of Climate Change and Drought on Ozonation at Las Vegas, NV	Eric C. Wert, Julia Lew, David Rexing and Ronald Zegers from the Southern Nevada Water Authority

Session 4 - Wastewater Treatment (+ Industrial Applications)

25-Aug-08

Start	End	Title	Authors
		Degradation of Triclocarban by Ozone	C. Tizaoui, N.M. Grima and J.K. Ephraim from the University of Bradford School of Engineering, Design and Technology
		Ozonation of Secondary Effluent of Sewage Treatment Plant for the Cooling Water of Thermal Power Plant	Kousei Sasaki, Nobuhiro Yamato, Eiji Sakuraba and Kazutaka Takahashi from Fuji Electric Water Environmental Systems Co., Ltd. and Seiji Yamana and Shigeo Mitsuma from Tokyo Gas Yokosuka Power Co., Ltd.
		Product Recovery through Ozone Oxidation of Waste Liquor	James R. Jackson and Justin Bennett from Mazzei Injector Company, LLC.
		Degradation of Naphthenic Acids in Athabasca Oil Sands Tailings Water Using Ozone	Hongjing Fu, Keisuke Ikehata, Mohamed Gamal El-Din and Daniel W. Smith from the University of Alberta, Department of Civil & Environmental Engineering and Mike MacKinnon and Warren Zubot from Syncrude Canada, Ltd.
		The Certification and Use of HIPOx™ for Reclaimed Water Disinfection State-of-the-Art Ozonation Practices at Major Municipal Wastewater Treatment Plants in the United States	Keel Robinson from Applied Process Technology, Inc. and Andrew Salvesson and Cari Ishida from Carollo Engineers
		Update on Ozone Based Low Temperature Oxidation for Control of NOx and Mercury in Flue Gas Emissions	Joseph A. Drago and Craig M. Thompson from Kennedy/Jenks Consultants
		Environmental and Monetary Saving from Ozone in Hotel On-Premise Laundry Operations	Robert Ferrell from RJF Consultants, LLC
			Richard S. Milward from Global Energy Partners, LLC

Session 5 - Medical Applications

25-Aug-08

Start	End	Title	Authors
		Ozone Therapy in Cancer Treatment. State of the Art	Silvia Menéndez from the Ozone Research Center, Cuban National Center for Scientific Research, Janet Cepero from the Cuban National Oncology and Radiobiology Institute and Luis Borrego from V. I. Lenin Provincial Hospital
		Ozone Therapy for the Treatment of Retinitis Pigmentosa	Robert H. Marmer
		HealOzone/TherOzone Therapy for Treatment of Mucositis Secondary to Chemotherapy / Radiotherapy: A Case Report	James E. Shenberg and Charles L. Blum from their Private Practice Dentistry
		Ozone Therapy in Diabetes: A Preclinical and Clinical Study	Silvia Menéndez from the Ozone Research Center, Cuban National Center for Scientific Research, Olga Sonia León , Saled M. Al-Dalain , and Gregorio Martínez from the University of Havana Center for Research and Biological Evaluation and Héctor Alvarez from the Institute of Angiology and Vascular Surgery
		Oxidative Preconditioning: An Ozone Protective Mechanism of Action	Silvia Menéndez from the Ozone Research Center, Cuban National Center for Scientific Research, Olga Sonia León from the University of Havana Center for Research and Biological Evaluation and Zullyt Zamora , Aluet Borrego , Ricardo González , Frank Hernández and Siegfried Schulz from the Veterinary Services and Laboratory of Animal Medicine, Philipps-University of Marburg
		Application of Ozone Therapy in the Treatment of Herniated Disk	Silvia Menéndez and José Luis Calunga from the Ozone Research Center, Cuban National Center for Scientific Research and Alberto Balbin from the Dr. Fructuoso Rodríguez Orthopedics Hospital
		Ozonized Sunflower Oil (Oleozon®) A Natural Product Against Fungi, Bacteria and Parasites	Silvia Menéndez from the Ozone Research Center, Cuban National Center for Scientific Research, Leopoldina Falcón and Amada Palomino from the Dr. Carlos J. Finlay Hospital, María Elena González from the Gastroenterology Nacional Institute, Pilar Acuña from the Center Havana Pediatric Hospital, Juana Elisa Benítez from the North Pediatric Hospital, Manuel Díaz from the Juan Manuel Márquez Pediatric Hospital and Mayté Amoroto and Miriela Fernández from the Cuban National Center for the Coordination of Clinical Trial

Tuesday 26 August 2008

Tuesday AM (Three Parallel Sessions)

Session 6 - Agri-Food Applications

26-Aug-08

Start	End	Title	Authors
		Ozone Decreases Decay, Kills Surface Microorganisms and Extends Shelf Life of Fresh Produce	David Cope from Novazone, Inc.
		Synergistic Use of Ozone and UV Light to Effectively Manage Grease Laden Vapors in Commercial Cooking Operations	Chris Thompson from Franke Foodservice Systems
		Optimization of CIP Process for Ozone Sanitization Retrofit	James R. Jackson from Mazzei Injector Company, LLC and Arturo Enriquez from Laboratorios Sanox SA de CV
		Ozone Uses in Cut Fruit and Vegetable Processes	Charles D. Sopher from Global Energy Partners, LLC
		Modelling Ozone within Drip Irrigation Systems	J. Chen-Lopez and P. Waller from the University of Arizona Dept. of Agricultural and Biosystems Engineering, and M.H. Stong from ARID Group, LLC
		Tight Control of Ozone Concentration in Spring Water Filling by an Integrated Ozone Contacting System with Advanced Feed Forward Ozone Control	Bob Smith-McCollum and Joe Fleck from Pacific Ozone
		Ozone Fog Room Decontamination Study	Alfredo J. Teran , Nidal A. Samad , and Rogelina Jacomino from AJT & Associates, Inc.

Session 7 - Drinking Water Process

26-Aug-08

Start	End	Title	Authors
		A Process for Maintenance of Ozone Contactors - A Report on Planning and Lessons Learned	Gil Machado from the John J. Carroll Water Treatment Plant
		Good Process Control in Ozone Plants Starts with Proper Tuning	Jim Muri from the John J. Carroll Water Treatment Plant
		Biofiltration without Chlorinated Backwash	Justin Sutherland from Carollo Engineers, Austin, Charles Vokes From the City of Arlington, Jim Gallovich from Carollo Engineers, Dallas, and Ron Joost from Carollo Engineers, Phoenix
		Ozone System Data Collection, Analysis and Operations Optimization	Sajal Mitra and Ric Johnston from the Metropolitan Water District of Southern California and Kerwin Rakness from Process Applications, Inc.
		Initial Operating Experience with a State-of-the Art Ozone System Retrofit to Replace the Original 20 Year Old Ozone System	Craig Thompson and Cristina Correa from Kennedy/Jenks Consultants, San Francisco, Bill Yates from Kennedy/Jenks Consultants, Lakewood, Todd Fessenden from the Eagle River Water and Sanitation District and Glenn Hunter from Process Applications Inc.
		Optimization of an Ozone Side Stream Injection System	Bill Mundy from the Regional Municipality of Halton and Kerwin Rakness from Process Applications Inc.
		Ozone System Expansion and Contactor Dissolution System Upgrades at the Sweeney WTP	Nick Burns , Robert Hulsey and Brian Townsend from Black & Veatch, and Michael Richardson from the City of Wilmington

Session 8 - Aquatic Animal Life Support (at Disney Living Seas)

26-Aug-08

Start	End	Title	Authors
		Considerations for Ozone Treatment on Recirculating Aquarium Systems with Biological Filtration	Kent J. Semmen from WDW Life Support, Epcot's The Seas with Nemo and Friends
		Operator Interface Implications for Automated Ozone Dosage & Control of Aquatic Life Systems	Lonnie Lamb from Walt Disney Company - Animal Programs Group
		Pilot Testing for Inactivation of Non-Indigenous Seawater Organisms by Ozonation and Ultraviolet Sterilization	Joel V. Johnson from TJP, Inc. and Angi Hotz from Nautilus Environmental
		Management of Ozone Application in Aquarium Life Support Systems	Andrew Aiken from the National Aquarium In Baltimore and Aiken & Associates, Inc.
		Ozone Use at the Monterey Bay Aquarium: A Natural Seawater Facility	Eric Kingsley , Roger Phillips , and Sarah Mansergh from the Monterey Bay Aquarium
		Water Chemistry Modeling for Ozonation Systems	Thoram Charanda from the Walt Disney World Co.
		[Workshop]	

Tuesday PM (Two Parallel Sessions)

Session 9 - Advanced Oxidation Technologies

26-Aug-08

Start	End	Title	Authors
		Quantification of the Hydroxyl Radical Scavenging Capacity during Advanced Oxidation Treatment	Fernando L. Rosario-Ortiz and Shane Snyder from the Southern Nevada Water Authority, Stephen P. Mezyk and Devin F. R. Doud from California State University at Long Beach, Department of Chemistry and Biochemistry
		Effect of Advanced Oxidation Processes on Nonylphenol Removal with Regard to Conventional Chlorination Used in the Process of Drinking Water Production	C. Gracia-Lucientes , R. Mosteo , P. Ormad Maria , and J.L. Ovelleiro from the University of Zaragoza, Department of Chemical Engineering and Environmental Technologies
		An Effective Process for the Removal of 1,4-Dioxane and TCE in Contaminated Groundwater	Achim Ried and Jens Krüger from ITT-WEDECO GmbH, Dennis Csalovszki from ITT-Wedeco and Nirmal Singh from ITT ICS
		Evaluation of •OH Quantification Methods for Advanced Oxidation Processes	Shane A. Snyder , Fernando L. Rosario-Ortiz , and Brett J. Vanderford from the Southern Nevada Water Authority, Applied Research & Development Center
		Decomposition of Clofibric Acid in Water Using of Ozonation with UV Irradiation	Masahiro Asano and Takuya Oyake from Ryukoku University, Faculty of Science and Technology
		Degradation of Anatoxin-a in Water by UV/H ₂ O ₂ Process	Atereh Alzai , Keisuke Ikenata , Mohamed Gamal El-Din and James R. Bolton from the University of Alberta, Department of Civil & Environmental Engineering, and Thomas Oppenländer from Hochschule Furtwangen University (HFU)
		Nanobubble Treatment of Complex Organics	William B. Kerfoot from Kerfoot Technologies, Inc.
		[Vacant]	

Session 10 - Drinking Water Process (+ Groundwater Treatment)

26-Aug-08

Start	End	Title	Authors
		Hybrid Constant Concentration Control Alternative	Kerwin L. Rakness from Process Applications, Inc.
		Impact of Free Chlorine and Chloramine Residuals on Ozonation	Eric C. Wert and Julia Lew from the Southern Nevada Water Authority
		Pre- and Post-Ozone Dose Study at the North Bay Regional Water Treatment Plant	Mike Oneby from MWH Americas Milwaukee, Charlie Bromley from MWH Americas Las Vegas, Doug Rodgers and Laura de Albidress from the City of Fairfield Public Works Dept. and Jeff Lodge from MWH Americas Sacramento
		Conversion of Air Feed to Oxygen Feed at the North Bay Regional Water Treatment Plant	Mike Oneby from MWH Americas Milwaukee, Charlie Bromley from MWH Americas Las Vegas, Doug Rodgers and Gil Hernandez from the City of Fairfield Public Works Dept. and Jeff Lodge from MWH Americas Sacramento
		600 MGD . . . What about 2 MGD? Applying ozone to small municipal facilities	Andrew Conner from H&T Systems
		Ozonation Removal of Drinking Water Tastes and Odors for a High TOC Water	Theping Chen from Metcalf & Eddy, an AECOM Company, Larry Landry , Barbara Featherston and Darin Fortenberry from the City of Shreveport, Joseph Bollyky from Bollyky Associates, Inc., Kerwin Rakness from Process Applications, Inc. and Ken Schnaars from Consoer Townsend Envirodyne, an AECOM Company
		Decomposition of VOC's by Ozonation in Gas Phase	M. Franco and I. Poznyak from Superior School of Chemical Engineering of National Polytechnic Institute, (ESIQIE-IPN), I. Chairez from the Profesional Interdisciplinary Unit of Biotechnology of National Polytechnic Institute (UPIBI-IPN), and A. Poznyak from the Department of Automatic Control, CINVESTAV-IPN, AP
		Treatment of Ground Water with High VOC's Concentration by O ₃ and O ₃ /H ₂ O ₂	W. de los Santos and I. Poznyak from the Superior School of Chemical Engineering of National Polytechnic Institute (ESIQIE-IPN) and I. Chairez from the Profesional Interdisciplinary Unit of Biotechnology of National Polytechnic Institute (UPIBI-IPN)