

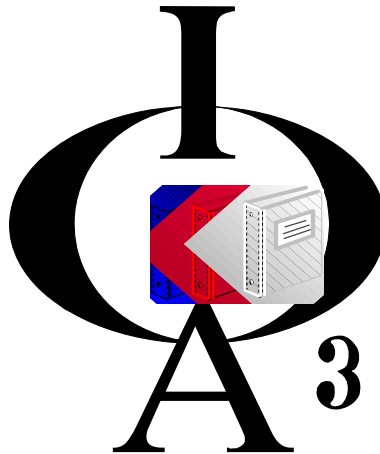
# PUBLICATIONS CATALOG

THE INTERNATIONAL OZONE ASSOCIATION

WEBSITES:

[www.io3a.org](http://www.io3a.org)  
[www.ioa-ea3g.org](http://www.ioa-ea3g.org)

2009-2010



The International Ozone Association is a non-profit educational and scientific organization dedicated to the collection and dissemination of information on, and to promote research in, any and all aspects of ozone and related oxygen species technologies.

This catalog provides information on publications available from the IOA. These include Proceedings of World Congresses [Pages 4 to 13] and proceedings of Regional Conferences [Pages 14 to 25] as well as a number of general publications on specific topics [Pages 26 to 31].

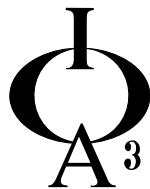
The IOA publishes a bi-monthly Journal covering Science and Engineering and a Newsletter [Page 32].

The administration of the IOA is through three Regional Groups [addresses opposite page] from which the Publications can be ordered [see Order Form last page].

Liaison between the IOA Group offices is undertaken by the office of the president of the IOA. The IOA President for 2010-2011 is:

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# THE INTERNATIONAL OZONE ASSOCIATION



## **E.A<sub>3</sub>.G**

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Website: [www.io3a.org](http://www.io3a.org)



## WORLD CONGRESS PROCEEDINGS

### **1ST OZONE WORLD CONGRESS, 1973** \_\_\_\_\_

Washington D.C., USA

62 papers delivered by the top experts of the ozone field during the historic founding and first World Congress of the International Ozone Institute (now known as IOA). Included are reviews, evaluations and projections on the entire ozone field from ozone generation through municipal water treatment, wastewater treatment, odor control and industrial pollution control. 910 pages.

**Order from Pan American Group.**

member = \$ 15	non member = \$ 20
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### **2ND OZONE WORLD CONGRESS, 1975** \_\_\_\_\_

Montreal, Quebec, Canada

50 papers by leading experts on the generation and application of ozone in the chemical industry, odor control, drinking water treatment, industrial wastewater treatment, disinfection, aquaculture, and some industrial specialty fields. 725 pages.

**Order from Pan American Group.**

member = \$ 25	non member = \$ 40
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### **3RD OZONE WORLD CONGRESS, 1977** \_\_\_\_\_

Paris, France

out of print.

### **4TH OZONE WORLD CONGRESS, 1979** \_\_\_\_\_

Houston, USA

out of print.

### **5TH OZONE WORLD CONGRESS, 1981** \_\_\_\_\_

Berlin, Germany

out of print.

**6TH OZONE WORLD CONGRESS, 1983** \_\_\_\_\_

Washington D.C., USA

87 papers presented by the top experts of the ozone field on ozone generation, drinking water treatment, Mass transfer, hazardous and industrial waste treatment, kinetics and oxidation products of ozone reactions, engineering costs, and performance evaluation of ozone water and wastewater treatment plants, odor control and air treatment with ozone. 204 pages.

**Order from Pan American Group.**

member = \$ 45	non member = \$ 50
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**7TH OZONE WORLD CONGRESS, 1985** \_\_\_\_\_

Tokyo, Japan

out of print
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**8TH OZONE WORLD CONGRESS, 1987** \_\_\_\_\_

Zürich, Switzerland

Volumes 1 and 2 out of print
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Volume 3: 11 papers on medical applications of ozone. 88 pages

**Order from EA<sub>3</sub>G**

member = €40	non member = €50
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**9TH OZONE WORLD CONGRESS, 1989** \_\_\_\_\_

New York City, USA

112 papers addressing a broad range of subjects in the area of ozone generation and applications technology. 1540 pages (2 volume set).

**Order from Pan American Group.**

member = \$ 75	non member = \$ 100
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Volume 1: Ozone in Water Treatment,

57 papers dealing with ozone reactions, water treatment processes, case histories of ozone water treatment installations, cost and design considerations, disinfection and disinfection by-products and advanced oxidation processes. 800 pages.

**Order from Pan American Group.**

member = \$ 40	non member = \$ 50
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Volume 2: Ozone in Wastewater Treatment and Industrial Applications,

55 papers addressing recent developments in ozone generation and costs, wastewater treatment, ozone in the atmosphere, aquatic applications, cooling water treatment, chemical processing, swimming pool and spa treatment, ozone mass transfer, analytical aspects of ozone, and operating experiences with various ozone systems. 740 pages.

**Order from Pan American Group.**

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**9TH OZONE WORLD CONGRESS, 1989( Continued) \_\_\_\_\_**

Volume 3 (MEDICINE): Ozone Medical Therapy, 14 papers on the current status of Ozone in medicine, possible uses and research. 150 pages

**Order from EA<sub>3</sub>G.**

member = \$50	non member = \$70
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**10TH OZONE WORLD CONGRESS, 1991 \_\_\_\_\_**

Monte Carlo, Monaco

In 2 volumes, (Volume 1 and 2) addressing a broad range of subjects in the area of ozone generation and applications technology. 940 pages. **(2 volume set).**

**Order from EA<sub>3</sub>G.**

member = €100	non member = €110
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Volume 1 : Ozone Generation and Applications. New technologies in ozone generation, mechanisms of oxidation by ozone, efficacy of ozone against miscellaneous organics and bacteria. 450 pages.

**Order from EA<sub>3</sub>G.**

member = €50	non member = €60
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Volume 2 : Ozone Disinfection and other Applications.

Ozone and water disinfection, mass transfer, ozone generation and activation processes. Ozone efficiency in drinking water treatment and various industrial uses such as semiconductor manufacturing, loop aquaculture, food processing. 490 pages.

**Order from EA<sub>3</sub>G.**

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Volume 3 (MEDICINE): Ozone Medical Therapy, Scientific research and clinical studies in ozone therapy, including periodontology, rheumatoid arthritis, viral and giardia lamblia diseases). 95 pages.

**Order from EA<sub>3</sub>G**

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**11TH OZONE WORLD CONGRESS, 1993** \_\_\_\_\_  
San Francisco, USA

Ozone in Water and Wastewater Treatment, Volume 1 & 2 : more than 200 papers, 2 004 pages. (2 volumes set).

**Order from Pan American Group.**

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**11TH OZONE WORLD CONGRESS, 1993(Continued)** \_\_\_\_\_

*Volume 1 includes : 1004 pages*

- S-1 Ozone Case Histories
- S-2 Ozone Pilot Plants and Tracer Studies
- S-3 Ozone Treatment of Pesticides
- S-4 Developments in Ozone Generation
- S-5 Ozonation Byproducts and Mutagenicity
- S-6 Ozone Case Histories - Design Considerations
- S-7 Ozone in Wastewater Treatment
- S-8 Developments in Ozone Generation
- S-9 Bromide-Bromate Issues
- S-10 Ozone Applications in the Pulp, Paper, and Textile Industries

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*Volume 2 includes : 1000 pages*

- S-11 Cooling / Process Water Treatment with Ozone
- S-12 Swimming Pools and Aquaria ; Ozoflotation Processes
- S-13 Groundwater Treatment With Ozone
- S-14 Ozone Contacting Designs
- S-15 Alternative Oxidation Processes
- S-16 Ozone Applications and Studies
- S-17 Ozone's Impact on Treatment Processes; Ozone / Hydrogen Peroxide
- S-18 Biological Impacts of Ozonation; Generator Feed Gas Supplements
- S-19 Disinfection Studies and Analyses
- S-20 Oxidation of Organic Compounds

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*Volume 3 : (MEDICINE) : Ozone in Medicine. 27 papers about scientific research and clinical studies in ozone therapy, 150 pages.*

**Order from EA<sub>3</sub>G.**

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**12TH OZONE WORLD CONGRESS, 1995** \_\_\_\_\_  
Lille, France

In 2 volumes, (Volume 1 and 2) addressing a broad range of topics in the area of ozone generation and applications technology. 1370 pages. (2 volume set).

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member = \$125/€100	non member = \$140/€115
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**12TH OZONE WORLD CONGRESS, 1995(Continued)** \_\_\_\_\_

Volume 1 includes: 750 pages

Ozonation and Reaction Products  
Combined Oxidation Processes  
Ozone for Disinfection  
Ozone for the Treatment of Drinking Water  
Ozone for the Treatment of Drinking Water. Odors.

Order from EA<sub>3</sub>G.

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Volume 2 includes : 620 pages

Generation of Ozone  
Hydrodynamics of Ozone Contactors  
Mass Transfer and Contact Systems  
Ozone for the Treatment of Wastewater  
Instrumentation  
Industrial Applications of Ozone

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Volume 3 (MEDICINE): Ozone in Medicine. 290 pages includes :

Experimental and Scientific Principles - Preventive Medicine - Circulatory  
Disorders - Dermatological Lesions – Inflammatories - Infection (local treatment) –  
Dentistry - Immunological Indications.

Order from EA<sub>3</sub>G.

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**13TH OZONE WORLD CONGRESS, 1997** \_\_\_\_\_  
Kyoto, Japan

In 3 volumes, addressing a broad range of topics in the area of ozone generation and applications technology. 1275 pages. 3 volume set

Order from NIG.

member = ¥ 20000	non member = ¥ 25000
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**13TH OZONE WORLD CONGRESS, 1997(Continued)** \_\_\_\_\_

Volume 1 includes : 564 pages

D1-D4	Water Purification Processes
D5-D6	Wastewater Treatment Processes
B1-1 - B1-2	Reaction Mechanisms
B1-3 - B1-4	Mass Transfer and Contact Systems
B1-5	Bleaching
B1-6 - B1-7	Advanced Oxidation Processes

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Volume 2 includes : 486 pages

B2-1	Measurement
B2-2	Water Treatment Processes
B2-3	By-products
B2-4	Effects on Organisms (9 papers on ozone in Medicine)
B2-5 - B2-6	Disinfection
C2-1 - C2-4	Ozone Generators
SA1 - SA9	State of Art of the Ozone Application in France, Germany, United Kingdom, Poland, Switzerland, Canada, USA and Japan.

**Order from NIG.**

<b>member = ¥ 8000</b>	<b>non member = ¥ 10000</b>
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Volume 3 (MEDICINE) includes: 225 pages

Poster Presentations (including 14 papers on Ozone in Medicine)

**Order from NIG.**

<b>member = ¥ 4000</b>	<b>non member = ¥ 5000</b>
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**14TH OZONE WORLD CONGRESS, 1999** \_\_\_\_\_

Dearborn, MI USA

In 2 volumes, addressing a broad range of topics in the area of ozone technologies. 1 360 pages (**2 volume set**).

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<b>member = \$ 125/€105</b>	<b>non member = \$ 150/€120</b>
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Volume 1 includes: 705 pages

12 Sessions containing:

- Drinking Water: Cryptosporidium, Regulatory Perspectives, Biological and other Treatments, Bromate and DBPs and Advanced Treatment
- Waste Water: Municipal and Textile & other Industrial Waste Waters Generation (2 Sessions)

**14TH OZONE WORLD CONGRESS, 1999(Continued)** \_\_\_\_\_

Advanced Oxidation  
Measurement and Quality Assurance  
Ozone Contacting Systems

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member = \$ 65/€55	non member = \$ 80/€65
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*Volume 2 includes: 655 pages*

9 Sessions containing:  
Case Studies in Drinking Water  
Waste Water: Odor and Leachates  
Reaction Mechanisms  
Additional Ozone Applications  
Operations Forum  
Food & Agriculture/ Pulp & Paper/ Case Studies  
Modeling, Mass Transfer and Reactions  
Heating and Cooling, Aquaria/Pools  
Poster Session (19 Extended Abstracts)

**Order from PAG or EA3G**

member = \$ 65/€55	non member = \$ 80/€65
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**15<sup>TH</sup> OZONE WORLD CONGRESS, 2001** \_\_\_\_\_

London, UK

In 4 volumes addressing a broad range of topics in the area of ozone technologies including medical applications. 1628 pages. **Available as 4 volume set or CD ROM.**

**Order from PAG or EA3G**

*4 Volume Set*

member \$180/€145	non member \$330/€255
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*CD ROM*

member \$50/€40	non member \$75/€60
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*Volume 1 includes: 502 pages*

Plenary Session - Keynotes  
Ozone Decomposition  
Ozone Applications in Drinking Water  
Operating Ozone Plants - Case Histories  
Applications of Ozone in Wastewater Treatment  
Special Applications for Ozone  
Miscellaneous Applications for Ozone

**15<sup>TH</sup> OZONE WORLD CONGRESS, 2001(continued)**\_\_\_\_\_

Volume 2 includes: 347 pages

Applications of UV  
Bromate Formation  
Advanced Oxidation Processes  
AOP/O<sub>3</sub> Model Research: Pesticides and Medicines  
AOP/O<sub>3</sub> Model Research: Solvents, Dyes, etc.  
AOP: Practical Applications

Volume 3 includes: 404 pages

Ozone Generation  
Ozone Generation and Application  
Mass Transfer and Chemical Reaction  
Forum and Poster Presentations

Volume 4 includes: 375 pages (Medical Session Proceedings)

Biological Models and Experimental Results  
Clinical Results  
Topical Application Forms of Medical Ozone  
Arterial Circulatory Disorders  
Orthopedics and Rheumatic Diseases

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**Single Volume (1,2,3)**

<b>member \$50/€40</b>	<b>non member \$70/€56</b>
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**Volume 4**

<b>member \$140/€115</b>	<b>non member \$155/€125</b>
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**16<sup>TH</sup> WORLD CONGRESS LAS VEGAS 2003**\_\_\_\_\_

More than 120 technical presentations covering ozone applications in:

General Review of Ozone Technology  
Food Applications  
Mass Transfer and Chemical Reaction  
Ozone Generation  
Ozone Measurement and Modeling  
Wastewater Operations  
Advanced Oxidation  
Operating Case Studies  
Disinfection/Disinfection Byproducts  
Air Applications  
Industrial Applications

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**17TH OZONE WORLD CONGRESS, 2005** \_\_\_\_\_

Strasbourg, France

ISBN n° 978-2- 95 28298-1-6

More than 175 technical presentations covering ozone application in:

Health Related Issues

Ozone Generation

Ozone in Medicine

Ozone and Related Oxidants

Interface with GLS'7, the parallel Gas-Liquid Systems Conference

Emerging Contaminants

Special Applications

Gas and Air Treatment

Fundamentals

Special Workshops

**Available in CD ROM with abstract book only**

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<b>non member €150</b>
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**18TH OZONE WORLD CONGRESS and 2007 World Congress on Ozone and Ultraviolet Technologies** \_\_\_\_\_

Los Angeles, CA

More than 280 papers covering all aspects of ozone and ultraviolet technologies. Topics covered include:

Adenovirus and UV Inactivation

Advanced Oxidation Technologies

Agriculture, Food and Beverage Applications (ozone and UV solutions)

Bromate Control

Emerging Contaminants (ozone and UV solutions)

Industrial Applications

Large UV Systems

Ozone and AOT System Design

Ozone Chemistry and Solubility

Ozone Generation and Contacting

Ozone Operations Forum

Preoxidation in Water Treatment

Synergy of Ozone and Ultraviolet – Water Industry

UV Air and Surface Treatment

UV Chemical and Biochemical Reactions

UV Disinfection

UV Measurements

UV Operations Forum

UV Reactor Design/Modeling/Verification

UV Source Technologies

Wastewater Treatment (ozone and UV solutions)

Water Treatment using Ozone – 20 years in Los Angeles

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**Available in CD ROM only.**

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<b>non member \$225</b>
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**19<sup>TH</sup> WORLD CONGRESS 2009**

Tokyo Japan

Contains 149 papers and 39 poster presentations covering a wide range of ozone technologies:

Water Purification

Emerging Contaminants

Industrial Applications

Municipal Wastewater Treatment

Advanced Oxidation Processes

Byproducts and Control

Ozone Generation

Agriculture-Food-Beverage Applications

Ozone Solubilization and Decomposition

Sludge Treatment

Air and Gas Treatment

Industrial Wastewater Treatment

UV Applications

Disinfection

Medical Applications (25 papers/20 poster presentations)

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<b>member ¥15,000</b>	<b>non member ¥16,000</b>
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## REGIONAL CONFERENCE PROCEEDINGS

### **Proceedings of the PAG IOA/IUVA Joint Cambridge Conference** Cambridge, MA 2009

Contains 93 papers giving recent updates on Ozone and UV technologies, including Advanced Oxidation, UV Validation, Ozone and UV case studies and Perozone processes.

#### **Order from PAG (CD ROM)**

<b>member \$75</b>	<b>non member \$125</b>
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### **Proceedings of the EA<sub>3</sub>G International Conference** *5<sup>th</sup> International Conference/10<sup>th</sup> IOA-EA<sub>3</sub>G Berlin Conference on Oxidation Technologies for Water and Wastewater Treatment.* Berlin, Germany 2009

Contains (executive summaries only) 43 papers and 145 poster presentations on a wide range of oxidation technologies including advanced oxidation, Fenton, disinfection, recycling, drinking water, photocatalysis and trace pollutants.

#### **Contact EAG for availability**

### **Proceedings of the PAG Orlando Conference** *OZONE: SUPPORTING SUSTAINABILITY* Orlando, FL 2008

Contains 59 papers giving recent updates on Drinking Water Treatment.(32 papers), Aquatic Animal Life Support (6 papers), Advanced Oxidation (5 papers and Wastewater (7 papers) plus additional topics.

#### **Order from PAG (CD ROM)**

<b>member \$75</b>	<b>non member \$125</b>
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**Proceedings of the EA<sub>3</sub>G International Conference**

***OZONE & RELATED OXIDANTS IN ADVANCED TREATMENT OF WATER FOR HUMAN HEALTH AND ENVIRONMENT PROTECTION. Disinfection, elimination of persistent pollutants and control of by-products***  
Brussels, Belgium 2008 (Co-Organised by IOA-EA<sub>3</sub>G and VIVAQUA)

ISBN n° 978-2-9528298-6-1

Contains 29 papers on 6 topics: Application in water plants and synergetic integration in treatment lines, Target Pharmaceuticals, Target Pesticides, Target Chemicals, Target Organic matter & Pathogens and Emerging (or alternative) AOPs. 5 posters presentations.

**Order from EA<sub>3</sub>G**

Abstracts book + CD ROM 

member €100	non member €120
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**Proceedings of the EA<sub>3</sub>G International Conference**

***SUSTAINABLE AGRI-FOOD INDUSTRY - USE OF OZONE & RELATED OXIDANTS***  
Valencia, Spain 2007 (Co-Organised by IOA-EA<sub>3</sub>G and AINIA)

ISBN n° 978-2-9528298-5-4

Contains 38 papers on Basic principles, Growing of foods, Storage of foods and Food processing (sub-sections Water treatment - Clean-in-Place applications in food plants - Commercial case examples). 6 poster presentations.

**Order from EA<sub>3</sub>G**

Abstracts book + CD ROM 

member €100	non member €120
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**Proceedings of the PAG Fresno Conference**

***OZONE V: APPLICATIONS OF OZONE AS AN ANTIMICROBIAL AGENT IN THE FOOD AND AGRICULTURE INDUSTRIES***  
Fresno, CA 2007

This conference was held in conjunction with the International Water Technology Conference. Contains approximately 70 technical presentations (a mix of full papers, PowerPoint presentations and Abstracts) on Water Supply & Reuse, Irrigation and Ozone V( 16 papers). Available in CD ROM only.

**Order from PAG**

member \$65	non member \$70
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**Proceedings of the PAG Arlington Conference**  
***OZONE: DELIVERING MULTIPLE BENEFITS***  
Arlington, TX 2006

Contains 57 presentations covering drinking water (9 papers), wastewater (7 papers), emerging contaminants (3 papers), advanced oxidation (5 papers), commercial-industrial applications (7 papers), operations (8 papers), mass transfer (3 papers) and agri-food applications (8 papers). Available in CD ROM.

**Order from PAG**

<b>member \$75</b>	<b>non member \$90</b>
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**Proceedings of the EA<sub>3</sub>G International Conference**  
***OZONE FOR SLUDGE REDUCTION AND CONTROL***  
Zuerich, Switzerland 2006

ISBN n° 978-2-9528298-4-7

Contains 7 presentations on ozone technologies for sludge management by interfacing with researchers, practitioners designers, end-users, experts and equipment suppliers.

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- CD ROM

<b>member €60</b>	<b>non member €75</b>
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- CD ROM + Conference book

<b>member €70</b>	<b>non member €87</b>
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**Proceedings of the EA<sub>3</sub>G International Conference**  
***INTERNATIONAL CONFERENCE ON OZONE AND UV: SUSTAINABLE SOLUTIONS FOR INDUSTRY AND THE ENVIRONMENT***  
Berlin, Germany 2006

ISBN n° 978-2-9528298-3-0

Contains 14 presentations on water treatment, municipal sludge treatment, UV irradiation, emerging contaminants and swimming pool water treatment.

**Order from EA<sub>3</sub>G**

- CD ROM

<b>member €60</b>	<b>non member €75</b>
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- CD ROM + Conference book

<b>member €70</b>	<b>non member €87</b>
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**Proceedings of the PAG Lake Lanier Conference**  
***OZONE: A VALUABLE TREATMENT TOOL FOR A WIDE RANGE OF APPLICATIONS***

Lake Lanier Islands, GA 2005

Contains 47 presentations (power point presentations, full papers or abstracts) on drinking water treatment (4 papers), advanced oxidation processes (3 papers), disinfection and byproducts (6 papers), mass transfer and reactor modeling (3 papers), operations (8 papers), emerging contaminants (4 papers) and wastewater treatment (4 papers). Available in CD ROM only.

**Order from PAG**

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**Proceedings of the PAG Fresno Conference**  
***OZONE III & IV: APPLICATIONS OF OZONE AS AN ANTIMICROBIAL AGENT IN THE FOOD AND AGRICULTURE INDUSTRIES***

Fresno, CA 2003 and 2005

Contains 57 presentations (power point presentations with some full papers) on research and practical examples of using ozone in the food processing industries. Available in CD ROM only.

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<b>member \$35</b>	<b>non member \$40</b>
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**Proceedings of the PAG Windsor Conference**  
***RESOLVING EMERGING ISSUES***

Windsor, Ontario, Canada 2004

Contains 46 presentations on a wide variety of ozone-related issues including: disinfection (9 papers); contactor design (6 papers); industrial applications (5 papers); advanced oxidation-wastewater (3 papers); plant operations (5 papers). **Available in CD ROM only.**

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<b>member \$50</b>	<b>non member \$75</b>
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**Proceedings of the EA3G International Conference**

***ADVANCES IN SCIENCE AND ENGINEERING FOR INDUSTRIAL APPLICATIONS OF OZONE AND RELATED OXIDANTS***

Barcelona, Spain 2004

ISBN n° 978-2- 9528298-0-9

Contains 27 presentations focusing on environmental protection (7 papers); Industrial Manufacturing (7 papers); Drinking water Treatment (7 papers) and food applications (6 papers)

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**Proceedings of the technical seminar in conjunction with Exhibition Fair Pollutec**  
**OZONE: MAJOR ACTOR IN WATER TREATMENT: INDUSTRIAL APPLICATIONS**  
**AND INSTALLATIONS**  
Paris, France 2003

8 papers to introduce the many benefits of ozone application in the field.

**Order from EA3G:** Book only

member €30	non member €40
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**Proceedings of EA3G International Conference**  
**INTERNATIONAL CONFERENCE ON OZONE IN GLOBAL WATER SANITATION**  
*integrating also Ultraviolet light, catalytic synergistic and advanced oxidation processes*  
Amsterdam, the Netherlands, 2002

Contains 34 presentations including water treatment technology and ozone for nutritional quality (7 papers); UV and advanced oxidation (6 papers); Ozone oxidation-Catalytic Oxidation processes (8 papers); Ozone in Wastewater treatment (6 papers); and Industrial Applications (5 papers)

**Order from EA3G Group** (Book + CD ROM)

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**Proceedings of the EA3G Conference entitled,**  
**OZONE: A CLEAN SOURCE FOR ACTIVATED-OXYGEN OXIDATIONS AND**  
**DISINFECTION**

Berlin, Germany, 2003

Contains presentations covering:

SESSION 1: Applications of Ozone, a clean Oxidant, in culturing of Foods, their processing and general nutritional Hygiene.

SESSION 2: Ozone: a clean Oxidant in Waste Water Treatment, Sludge conditioning and Pulp and Paper Bleaching

SESSION 3: Ozone, a clean Oxidant and related Processes in Water Treatment.

**Order from EA3G:** Book

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**Proceedings of the PAG**  
**Mexico City Conference**

Mexico City Mexico, 2002

29 presentations covering basic concepts, industrial applications, food and agriculture applications, potable water treatment and wastewater treatment. Includes author biographies, abstracts of all papers in English and Spanish, 18 full papers in English and 23 full papers in Spanish. The Conference was designed to introduce ozone technology and the IOA to the Latin American region, and so many of the presentations offer an excellent overview with a very practical orientation.

**Order from PAG Group**  
(CD ROM)

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**Proceedings of the PAG Raleigh Conference**

***OZONE APPLICATIONS IN A CHANGING REGULATORY ENVIRONMENT***

Raleigh, North Carolina, USA, May 2002

Contains 27 papers on a wide variety of ozone topics including food and agricultural uses (4 papers); ozone applications (3 papers); disinfection (8 papers); ozone systems (3 papers); operations forum (5 papers); advanced oxidation (4 papers) and industrial applications (2 papers). Of particular interest are papers on recent developments in food and agricultural uses of ozone, use of static mixers and ozone for atrazine removal, zebra mussel mitigation, *Cryptosporidium* inactivation, ozone and oxygen gas systems cleaning and verification, ozone treatment of bottled water, advanced oxidation treatment of MTBE and ozone and anthrax.

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**Proceedings of PAG Newport Beach Conference**

***ADVANCES IN OZONE TECHNOLOGY***

Newport Beach, California, USA, May 2001

Contains 52 papers on Improving Ozone System Efficiency, Disinfection, Bromate Formation and Control, Ozone Compatible Materials, Taste and Odor Control, Food Applications, Design for Plant Operation, Water Conditioning and Wastewater Applications, Agricultural Applications and Mass Transfer Studies. Proceedings are available on a CD ROM which also contains the technical data section of the petition to FDA for use of ozone in food processing.

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Orlando, Florida , USA, October, 2000

Contains 52 papers on Bromate Chemistry, Reaction Mechanisms, Contactor Design, Food Applications, Drinking Water Treatment, Biofiltration, Disinfection, Kinetics, Measurement and Ozone Generation. Proceedings are available on a CD ROM.

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**Proceedings of the EA<sub>3</sub>G International Conference,  
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UV AND RELATED OZONE TECHNOLOGIES**  
Berlin, Germany, 2000

Contains presentations covering Progress in ozone technologies and applications (Session I, 6 papers), Ozone and valorization of products incl. disinfection (Session II, 5 papers and 6 forum papers), State of art in water disinfection with uv-light (Session III, 7 papers and 3 forum papers), UV and synergic oxidation processes (Session IV, 5 papers and 6 forum papers), Applications of ozone and case studies (Session V, 6 papers and 4 forum papers), Ozone in food industry and related technologies (Session VI, 5 papers and 2 forum papers). 825 pages.

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**Proceedings of the International Specialized Symposium entitled,  
FUNDAMENTAL AND ENGINEERING CONCEPTS FOR OZONE REACTOR  
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Toulouse, France, 2000.

Contains 38 papers on Physical Properties of Ozone, Ozone Chemical Reactions and Inactivation, Mechanisms and Kinetics, Mass Transfer in Ozone Reactors, Hydrodynamics of Ozone Reactors, Case Studies, Process Control and Optimization and Simulation Tools.

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**Proceedings of the International Ozone Symposium on the occasion of  
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DISCOVERER OF OZONE**  
Basel, Switzerland, 1999

Contains 19 Papers and 27 Posters covering Ozone in the Atmosphere, Ozone in Water Treatment, Ozone in Organic Chemistry and Ozone and living Organisms.  
The Proceedings include also the Keynote Speech by Prof. Dr. Mario Molina, USA, Nobelprize Winner 1995.

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**Proceedings of the EA<sub>3</sub>G International Conference,  
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TREATMENT : APPLICATIONS AND RESEARCH**  
Poitiers, France, 1998.

Contains 58 papers on Ozone Applications (in Drinking Water Treatment, Cooling Water Treatments, Wastewater Processes and other fields), Advanced Oxidation Processes, Reaction Mechanisms – Ozonation Contactors, Bromate Formation.

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**Proceedings of the Annual PAG Conference,  
Vancouver, British Columbia, Canada, 1998.**

39 papers. Topics include ozone applications for drinking water including Cryptosporidium inactivation, biologically active filtration, bromate formation and control, and updates on US EPA regulatory activity. Additional topics include design-build construction issues, advancements in ozone generators, synergistic uses of ozone with chlorine dioxide, and ozone applications in the Food industry.

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**Proceedings of the EA<sub>3</sub>G Conference entitled,  
REGIONAL CONFERENCE ON OZONE GENERATION AND APPLICATION TO  
WATER AND WASTE WATER TREATMENT.**  
Moscow, Russia, 1998.

Contains 44 papers covering ozone generation and related topic, Ozone Mass transfer and modeling, Ozonation in drinking water treatment, Ozone in Waste Water Treatment and related, Ozone chemistry in aqueous systems, and a Forum presentation.

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**Proceedings of the Annual PAG Conference,  
Lake Tahoe, Nevada, USA, 1997.**

Proceedings from this Conference has 25 papers offering an excellent overview of current activities by PAG members, including current status of IOA's role in the EPA regulatory negotiation process for drinking water regulations, 3 papers on food applications (new for PAG), a survey paper on gas flow measurement and accuracy, and other papers covering disinfection, biological filtration, process optimization, contacting, and industrial process and wastewater.

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**Proceedings of the EA<sub>3</sub>G International Conference,  
INTERNATIONAL CONFERENCE ON OZONATION AND RELATED OXIDATION  
PROCESSES IN WATER AND LIQUID WASTE TREATMENT.**

Berlin, Germany, 1997.

Contains presentations covering color removal and related topics (6), Mass transfer and related topics (9), New experimental technologies (3), ozone and biological activity (3), Ozonation Products (3), Forum presentations on pre-printed contributions (5), Advanced oxidation processes (9), and Forum presentation on measurement of high concentrations of ozone in process gases (4)..

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**Proceedings of the PAG Conference entitled,  
APPLICATIONS AND OPTIMIZATION OF OZONE FOR POTABLE WATER  
TREATMENT AND OTHER RELATED TOPICS.**

Ottawa, Ontario, Canada, 1996.

Contains 27 papers reflecting state-of-the-art in ozone for inactivation of *Cryptosporidium parvum*, piloting, start-up and optimization of full scale potable water treatment plants. Additional topics include ozone for remediation of soils, oxidation of various organics, wastewater applications, and advances in and optimization of ozone generators. 384 pages.

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**Proceedings of the EA<sub>3</sub>G Conference entitled,  
REGIONAL CONFERENCE ON OZONE, ULTRAVIOLET LIGHT, AND  
ADVANCED OXIDATION PROCESSES IN WATER TREATMENT.**

Amsterdam, The Netherlands, 1996.

Contains 44 presentations covering wastewater and industrial waste treatment (5), Use of ultraviolet light in water treatment (7), applications of ozone (7), ozonation processes in drinking water treatment (6) and ozone and advanced oxidation processes (7), including more than 10 poster presentations. 544 pages.

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**Proceeding of the EA<sub>3</sub>G Workshop entitled,  
OZONE TECHNOLOGIES AND APPLICATIONS**

Madrid, Spain, 1996.

Contains 13 presentations covering treatment of drinking water (3), treatment of urban wastewater (6), and industrial applications (4). 320 pages. Eight presentations are written in Spanish and five are written in English.

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**Proceedings of the IOA Australasian Chapter Conference entitled,  
“DOWN UNDER 96”, OZONE AND ITS APPLICATIONS**  
Sydney, Australia, 1996.

Contains 42 papers including 12 on ozone treatment of drinking water, 2 on advanced oxidation, 9 on wastewater, 3 on cooling water, 4 on ozone generation, 5 on paper production, 5 on various other applications, 2 on analysis and control, and 2 on research. 416 pages.

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**Proceedings of the PAG Conference entitled,  
OZONE FOR DRINKING WATER TREATMENT : OXIDATION - DISINFECTION -  
BIOFILTRATION**

Cambridge, Massachusetts, USA, 1995

Contains a compilation of 23 papers addressing potable water topics including biological and GAC filtration, new plant start-ups, contactors and mass transfer, system optimization and control, disinfection by-products and other related topics including ozone generation, feed gas supply, emergency power issues, and two papers on oxidation of pesticides and phenols. 467 pages.

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**Proceedings of the PAG Conference entitled,  
ADVANCES IN THE APPLICATION OF OZONE IN WATER AND WASTEWATER  
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Richmond, Virginia, USA, 1994

Contains 17 presentations on a broad range of topics with emphasis on state-of-the-art application of ozone in areas usually dominated by chlorination. 230 pages.

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**Proceedings of the EA<sub>3</sub>G International Conference  
OZONATION FOR DRINKING WATER AND WASTEWATER TREATMENT**

Zürich, Switzerland, 1994

Contains 29 complete papers describing the use of ozone treatment of water, (3), drinking water (13), wastewater (10), and aspects of ozone production (3). 388 pages.

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Warsaw, Poland, 1994

Contains 40 presentations covering drinking water treatment (16), swimming pool and cooling systems (4), ozone generation (7), ozone transfer and modeling (4), and ozonation of wastewater. 400 pages.

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Contains 14 of the presentations made at this Symposium. Topics are concentrated on the use of ozone and ozone-enhanced biofiltration in recycling marine aquaria, with emphasis on engineering, performance, and cost aspects. Other topics discussed include ozone applications in zoos, mariculture of shrimp, and in fresh water fish hatchery systems. 170 pages.

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**Proceedings of the PAG Conference entitled,**

***OZONATION FOR DRINKING WATER TREATMENT***

Pasadena, California, USA, 1992

Contains 23 presentations made at this conference covering topics related to the use of ozone for treating drinking water, including effects of evolving U.S. EPA regulations on ozone use, ozone by-products, pilot plant and full-scale case studies, ozone contactor design to meet U.S. EPA's ozone disinfection requirements, advanced oxidation with ozone, air vs. oxygen for generating ozone, analytical measurement of ozone, engineering studies at large scale demonstration plants using ozone, and new directions in ozone technology. 400 pages.

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**Proceedings of the PAG Conference entitled  
*OZONE IN THE AMERICAS*  
Toronto, Ontario, Canada, 1991**

Contains 35 presentations from this meeting covering ozone generation, ozone contacting, potable water and municipal wastewater treatment, coupling ozone with biological filtration, meeting developing U.S. EPA regulations for potable water treatment, ozone disinfection, and treatment of a number of industrial wastewater applications (pulp & paper, textiles, and explosives). Additionally, 10 presentations cover the application of ozone in cooling water treatment.

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**Proceedings of the PAG Autumn Conference entitled,  
*OZONATION SYSTEMS AND DRINKING WATER TREATMENT.*  
Myrtle Beach, South Carolina, USA, 1988**

Contains 9 presentations made at this meeting, all dealing with ozone for drinking water treatment. 135 pages.

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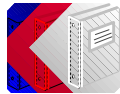
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**Proceedings of the PAG Spring Conference entitled,  
*OZONATION SYSTEMS: DESIGN, OPERATION AND MAINTENANCE,*  
Monroe, Michigan, USA, 1988.**

Contains most of the 29 presentations made at this meeting, which concentrated on operational experiences at water and wastewater plants using ozone. 155 pages

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***“Guideline for Measurement of Ozone Concentration in the Process Gas From an Ozone Generator”***, K. Rakness, et. al., OS&E 18(3) : 209-229 (1996).

This paper describes two analytical procedures (wet chemistry and UV verified by wet chemistry) whereby gas phase ozone concentration from commercial ozone generators can be measured. Consensus agreement on these two methods has been reached.

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***“Gas Phase Ozone Concentration Comparisons from a Commercial Ozone UV Meter and KI Wet Chemistry Tests”***, K. Rakness, et. al., OS&E 18(3) : 231-249 (1996).

This paper reports results from over 100 comparative UV meter versus KI wet chemistry ozone concentration tests using 15 individual UV meters at ten different full-scale ozone installations. The paper focuses on the precision of UV meters, their accuracy, and expected range in % difference between UV and wet chemistry procedures.

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***“Quality Assurance in Ozone Practice”***, W. J. Masschelein et al., OS&E 20(6): 433-493 (1998)

These series of papers were prepared by members of the IOA Quality Assurance Committee and consist of the following topics: Iodometric determination of ozone in a process gas / Intercalibration of analytical methods and monitoring of dissolved Ozone. / Colorimetric method for manual determination of ozone concentration in water / Ozone concentration measurement and monitoring in a concentrated process gas by UV absorption. / Recommended terms of the International Ozone Association / Ozone related conversion tables.

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**“OZONE TREATMENT OF COOLING WATERS”**

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**AQUATIC APPLICATIONS OF OZONE**

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This book covers the ozone treatment of fresh water and seawater in aquaria, in aquaculture, and in the cooling of power plants. Discussions are included on the effect of ozone on various micro-organisms and aquatic species. 226 pages.

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**DESIGN GUIDANCE MANUAL FOR OZONE SYSTEMS**

Edited by Michael A. Dimitriou

This manual provides engineering information and guidance for designers of water and wastewater treatment plants which will include medium to high capacity ozonation systems (e.g., greater than 50 lbs/day of ozone). This publication represents a consensus view reached by round table discussions by many North American ozone equipment manufacturers and design engineers. The manuscript was reviewed repeatedly by many leading ozone experts in the Pan American Group of the IOA.

The publication consists of eight chapters, organized to cover the hardware, various components of the ozone system, their operating functions, and design requirements. There are separate chapters for ozone generators, air preparation units, instruments and controls, and for ozone contactors (including ozone decomposers). Necessary operating parameters, design requirements, materials of construction and safety issues are discussed with each. An additional chapter is dedicated to the review of design alternatives, standby capacity, floor space requirements, piping and HVAC needs, system listing and operator training. A checklist also is provided for the review of system design and evaluation of existing installations in an easy-to-use, item-by-item format.

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***FORUM ON OZONE DISINFECTION***

Edited by Edward G. Fochtman, Rip G. Rice, Ph. D. and Myron E. Browning.

The various aspects of disinfection of water and wastewater by ozone treatment are discussed by twenty-nine leading experts and researchers. The efficacy and economics of disinfection with ozone are compared to those with chlorine and chlorine dioxide. 434 pages.

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***OZONE / CHLORINE DIOXIDE OXIDATION PRODUCTS OF ORGANIC MATERIALS***

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***THE USE OF OZONE IN THE TREATMENT OF SWIMMING POOL WATER***

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***OZONE : ANALYTICAL ASPECTS AND ODOR CONTROL***

Edited by Rip G. Rice, Ph.D., and Myron E. Browning

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***HANDBOOK OF OZONE TECHNOLOGY AND APPLICATIONS***

Edited by Rip G. Rice, Ph.D., and Aaron Netzer, Ph.D.

Volume 1 : out of print.

Volume 2 : 13 chapters on various aspects of ozone treatment of drinking water : Disinfection, Iron & Manganese Removal, Taste and Odor Control, Color Removal, Removal of Detergents, Pesticide Removal, Removal of Ammonia and other Nitrogen Derivatives,

Microflocculation with Ozone, Closed-loop System for Generating Ozone from Oxygen, Biological Drinking Water Treatment Systems, Preozonation of Raw Water, Recent Developments in Drinking Water Treatment with Ozone, and a Bibliography : Ozone for Drinking Water Treatment. 378 pages.

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***MEASURING METHOD OF OZONE CONCENTRATION***

Edited by Nippon Islands Group.

Consists of 8 chapters (in Japanese).

(1) Introduction, (2) Indicative Units of Ozone Concentration, (3) Sampling Methods, (4) Chemical Analysis, (5) Instrumental Analysis, (6) The Other Measurements, (7) Related Laws, Regulations and Standards, (8) Appendix. 118 pages

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***OZONIZATION MANUAL FOR WATER AND WASTEWATER TREATMENT***

Edited by Dr. Willy J. Masschelein, 1991

***FRENCH EDITION***

With the growing interest in ozonization practice as applied in water treatment, the technical and scientific knowledge regarding this process is continuously expanding. Therefore, Dr. W. J. Masschelein has published a compendium of the information currently available internationally and used in everyday ozonization practice. The aim of this manual is to gather the key theoretical aspects of ozone, the know-how of its application and future prospects in a useful information source available to all.

The main objective of this handbook is to provide an immediate source of information prior to experimental investigation, and also as a basis for research into defects in systems. (The book in English is out of print). 324 pages.

Order from : Librairie LAVOISIER; 11 rue Lavoisier, F - 75384 Paris Cedex 08, France

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**2004 EPRI/Global Ozone Handbook: Agriculture and Food Industries**

Produced by Global Energy Partners, LLC and offered through the IOA.

This report summarizes research efforts pertaining to ozone's uses in the agriculture and food industries. It includes experimental results from over 100 research groups and organizations and describes over two dozen specific end uses of ozone in these industries. Contributors to this publication included IOA members and member companies. The CD is divided into three sections:

- Introduction – history of ozone in the agriculture and food industries
- Technology description – generation of ozone; merits and limitations of Ozone Engineering Services
- Specific End-Uses of Ozone – 10 separate applications categories covered.

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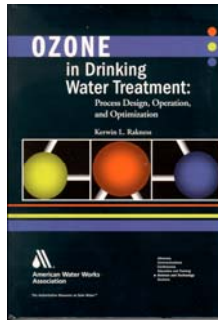
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**Ozone in Drinking Water Treatment**

## Process Design, Operation and Optimization

by Kerwin L. Rakness, Process Applications, Inc. (2005)



This book provides in-depth information from an operations prospective based on experience from design, startup and operation of more than fifty ozone plants. The 302 page book is laid out in 8 chapters.

- Introduction
- Applications in Drinking Water Treatment
- Ozone Process Layout, Sizing and Cost
- Ozone Process and Equipment Design and Operation
- Optimizing ozone operation and Performance
- Measuring Ozone Concentration in Gas
- Ozone Residual-in-water Measurement
- Measuring and Calculating Ozone System Gas Flow and Moisture content

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## PERIODICALS

### ***OZONE: SCIENCE & ENGINEERING***

The bimonthly, peer-reviewed Journal of the International Ozone Association, which contains an average of five to nine scientific, engineering, or review papers covering various aspects of ozone technology. Exemplary papers published in past issues cover ozone generation, ozone contacting, treatment of contactor off-gases, analyses for ozone (gas and liquid phases), mechanisms of ozone reactions, applications of ozone in treating drinking water, municipal and industrial wastewaters, swimming pool waters, cooling waters, recycling marine aquaria waters, hazardous wastes, landfill leachates, odor control with ozone, advanced oxidations with combinations of ozone with hydrogen peroxide, ultraviolet radiation, and electron beam radiation, results of pilot plant studies as well as full-scale plant case studies, and many others.

The OS&E Editorial Board currently consists of 30 scientists and engineers skilled in various aspects of ozone technologies. Issues contain 76 or 112 pages.

IOA members receive an electronic version OS&E as part of their membership fee. Non-members may contact Taylor & Francis Subscription Office.: 1-215-625-8900 or, [www.taylorandfrancis.com](http://www.taylorandfrancis.com). It may be possible to order selected older back issues from the IOA.

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### ***OZONE NEWS***

The bimonthly newsletter of the International Ozone Association, reports timely items of interest occurring throughout the world in all fields of ozone technology. Although reporting mostly newsworthy items dealing with ozone, some brief technical publications are published in Ozone News from time to time, particularly when timeliness is of critical importance to our readers. Recent issues have contained between 24 and 52 pages.

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March 30-April 9, 2010

**EA3 Group International Conference**  
*Emerging Parameters in Water and Environment: Benefits of Ozone  
and other Oxidants.*  
Geneva, Switzerland

**Contact:**

**Béatrice Bernard, EA3G**

**Tel: +33 (0) 5 49 45 44 54**

**Fax: +33 (0) 5 49 45 40 60**

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**[www.ioa-ea3g.org](http://www.ioa-ea3g.org)**

September 20-22, 2010

**PAG Regional Conference**  
Hyatt Regency Bellevue (Seattle), WA

**Contact :**

**Paul Overbeck, Pan American Group**

**Tel: +1 480-529-3787**

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