

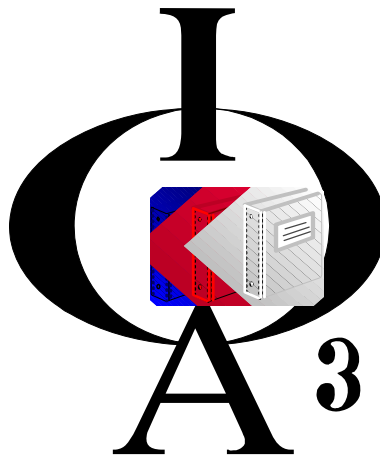
PUBLICATIONS CATALOG

THE INTERNATIONAL OZONE ASSOCIATION

WEBSITES:

www.io3a.org
www.ioa-ea3g.org

2011-2012



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 30].

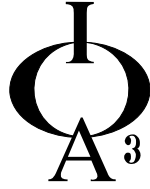
The IOA publishes a bi-monthly Journal covering Science and Engineering and a Newsletter [Page 31].

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 2011 is:

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THE INTERNATIONAL OZONE ASSOCIATION



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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

8TH OZONE WORLD CONGRESS, 1987 _____

Zürich, Switzerland

Volumes 1 and 2 out of print

Volume 3: 11 papers on medical applications of ozone. 88 pages

Order from EA₃G

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.

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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 EA₃G.

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 EA₃G.

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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.

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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.

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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.

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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.

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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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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.

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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.

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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.

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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.

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Volume 3 (MEDICINE) includes: 225 pages

Poster Presentations (including 14 papers on Ozone in Medicine)

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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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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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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)

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15TH 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.**

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4 Volume Set

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CD ROM

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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

15TH OZONE WORLD CONGRESS, 2001(continued)_____

Volume 2 includes: 347 pages

Applications of UV
Bromate Formation
Advanced Oxidation Processes
AOP/O₃ Model Research: Pesticides and Medicines
AOP/O₃ 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)

member \$50/€40	non member \$70/€56
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Volume 4

member \$140/€115	non member \$155/€125
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16TH 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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member \$75	non member \$125
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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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member €125

non member €150

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

Order from PAG

Available in CD ROM only.

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19TH WORLD CONGRESS 2009
Tokyo Japan

Contains 149 papers and 39 poster presentations (In English) 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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Available in CD ROM with abstract book.

member ¥15,000	non member ¥16,000
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REGIONAL CONFERENCE PROCEEDINGS

Proceedings of the PAG Seattle Conference Seattle (Cambridge, WA) 2010

Contains 60 technical presentations plus 5 medical papers covering a wide range of ozone technologies including: DBP formation and control, advanced oxidation technologies, operations, biofiltration, drinking water, wastewater and commercial operations including food processing

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Proceedings of the EA₃G International Conference *Ozone and Related Oxidants: solutions for emerging Pollutants of Concern to the Water and the Environment.* Geneva, Switzerland 2010

Contains 24 papers and 19 poster presentations (most with complete manuscript) focusing on emerging pollutants, fundamentals and processes and case studies on full-scale plants.

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Abstracts book + CD ROM	member €100	non member €120
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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.

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Proceedings of the EA₃G International Conference *5th International Conference/10th IOA-EA₃G 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.

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Proceedings of the EA₃G 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-EA₃G 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.

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Abstracts book + CD ROM

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Proceedings of the EA₃G International Conference
SUSTAINABLE AGRI-FOOD INDUSTRY - USE OF OZONE & RELATED OXIDANTS
Valencia, Spain 2007 (Co-Organised by IOA-EA₃G 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.

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Abstracts book + CD ROM

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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.

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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.

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Proceedings of the EA₃G 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

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- CD ROM + Conference book

member €70	non member €87
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Proceedings of the EA₃G 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.

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member €70	non member €87

- CD ROM + Conference book

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.

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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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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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Proceedings of the EA₃G International Conference

member \$50	non member \$75
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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.

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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)

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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.

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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.

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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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Proceedings or the PAG Orlando Conference

ADVANCES IN OZONE TECHNOLOGY

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 EA₃G International Conference,
INTERNATIONAL CONFERENCE ON APPLICATIONS OF OZONE AND ALSO ON
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.

Order from EA₃G

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**Proceedings of the International Specialized Symposium entitled,
FUNDAMENTAL AND ENGINEERING CONCEPTS FOR OZONE REACTOR
DESIGN**

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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BOOK :

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CD-ROM :

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**Proceedings of the International Ozone Symposium on the occasion of
THE 200TH ANNIVERSARY OF CHRISTIAN FRIEDRICH SCHOENBEIN, THE
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 EA₃G International Conference,
REGIONAL CONFERENCE ON OZONATION AND AOP'S IN WATER
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 EA₃G Conference entitled,
REGIONAL CONFERENCE ON OZONE GENERATION AND APPLICATION TO
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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,
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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 EA₃G 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 EA₃G 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 EA₃G Workshop entitled,
OZONE TECHNOLOGIES AND APPLICATIONS
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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 TREATMENT**
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**Proceedings of the EA₃G International Conference
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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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Proceedings of the EA₃G Conference

APPLICATION OF OZONE IN WATER AND WASTEWATER TREATMENT

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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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Proceedings of the PAG Conference entitled,

3RD INTERNATIONAL SYMPOSIUM ON THE USE OF OZONE IN AQUATIC SYSTEMS

Greenwich, Connecticut, USA, 1992

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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**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”

A total of 34 different papers from various authors has been compiled into one complete reference guide for the use of ozone in cooling towers, evaporative or condenser coolers, chilled water systems, and one-through cooling systems. A variety of studies is presented, dealing with theoretical principles, laboratory studies of biological, corrosion, or scale control, full scale case studies of ozonated cooling towers, and practical guidelines and technological limitations of ozone’s use as a stand-alone cooling water treatment - that being the most common application of practice in North America. Several papers also report on the use of ozone in cooling towers in conjunction with a variety of corrosion inhibitors and scale dispersants - a growing practice becoming more common in Europe. 517 pages.

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AQUATIC APPLICATIONS OF OZONE

Edited by Walter J. Blogoslawski, Ph. D. and Rip G. Rice, Ph. D.

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 chemistry, toxicity and reaction products of ozone treatment, UV treatment are compared with that of chlorine dioxide, halogens and other oxidants during water and wastewater treatment. Special emphasis is placed on the identification of reaction products and their toxicity and mutagenic effect.

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THE USE OF OZONE IN THE TREATMENT OF SWIMMING POOL WATER

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The generation of ozone and its use for swimming pool water treatment are discussed in seventeen papers by researchers and engineers involved in the design and evaluation of ozone systems for the disinfection of swimming pools. The design and operating experiences and regulatory requirements of several European countries are reviewed. 206 pages.

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OZONE : ANALYTICAL ASPECTS AND ODOR CONTROL

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

Proceedings of two one-half day workshops on these subjects as they stood in 1975. Five presentations deal with analysis of ozone plus a transcribed panel discussion. Seven presentations deal with odor control plus a transcribed panel discussion. Included, also, is a list of abstracts of available literature dealing with odor control with ozone. 203 pages.

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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,

Microfloculation 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.

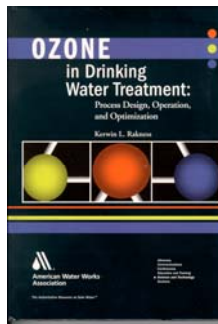
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**Ozone in Drinking Water Treatment
Process Design, Operation and Optimization**

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
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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 75-100 pages.

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