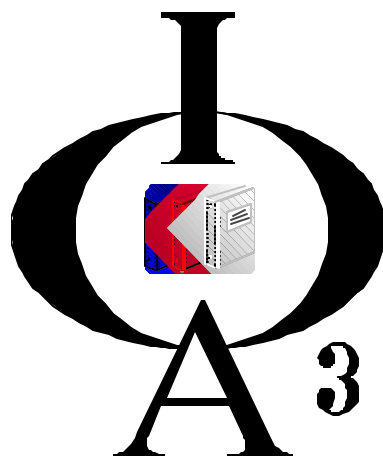


PUBLICATIONS CATALOG

THE INTERNATIONAL OZONE ASSOCIATION

**WEBSITE:
www.io3a.org**

2005-2006



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 2 to 10] and proceedings of Regional Conferences [Pages 11 to 19] as well as a number of general publications on specific topics [Pages 20 to 24].

The IOA publishes a bi-monthly Journal covering Science and Engineering and a Newsletter [Page 25].

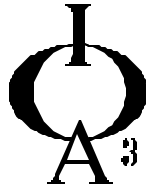
The administration of the IOA is through three Regional Groups [addresses opposite page] from which the Publications can be ordered [see Order Form last page].

Liaison between the IOA Group offices is undertaken by the office of the president of the IOA. The IOA President for 2006-2007

is:

Mr. Michael Dimitriou
ITT Sanitaire
11700 Blakeston Ct
Richmond, VA 23236

THE INTERNATIONAL OZONE ASSOCIATION



E.A₃G

European-African-Asian-Australasian Group

Alain LASALMONIE
Executive Director

IOA - E.A₃G
83 avenue Foch
F- 75116 Paris
FRANCE

Prof. Bernard LEGUBE

Executive Secretariat

Ms. Béatrice BERNARD

Executive Secretary

IOA-EA3G

Bat. ESI-40,

Av. DuRecteur Pineau

85922 Poitiers Cedex

FRANCE

Tel. +33(0) 5 49 45 44 54

Fax +33(0) 5 49 45 40 60

e-mail :

ioa@esip.univ-poitiers.fr

N.I.G

Nippon Islands Group

Mr. Hirofumi Takahara
Executive Director

Japan Ozone Association
Technology Department
Homei Building 8 F
1-3-19 Akasaka, Minato-ku
Tokyo 107-0052
JAPAN

Tel. + (81) 3 3583 5210

Fax + (81) 3 3583 1461

e-mail :

joa@mwd.biglobe.ne.jp

P.A.G

Pan American Group

Mr. Ron Caron
Office Manager
IOA-PAG

PO Box 8761
Scottsdale, AZ 85252

Tel + (1) 480 529-3787

Fax + (1)480 361 7725

e-mail :

info@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/ €12 | non member = \$ 20/ €16 |
|---------------------|-------------------------|

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 = \$ 18/ €15 | non member = \$ 23/ €19 |
|---------------------|-------------------------|

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/ €36 | non member = \$ 50/ €40 |
|---------------------|-------------------------|

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/ \$50 | non member = €50/ \$62 |
|--------------------|------------------------|

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 = \$ 125/ €100 | non member = \$135/ €110 |
|-----------------------|--------------------------|

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 = \$ 65/ €55 | non member = \$70/ €60 |
|---------------------|------------------------|

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.

| | |
|---------------------|------------------------|
| member = \$ 65/ €55 | non member = \$70/ €60 |
|---------------------|------------------------|

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 = €40/ \$50 | non member = €50/ \$60 |
|--------------------|------------------------|

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.

| | |
|----------------------|-------------------------|
| member = \$125/ €100 | non member = \$135/€108 |
|----------------------|-------------------------|

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 EA₃G.

| | |
|--------------------|------------------------|
| member = \$60 /€48 | non member = \$70/ €56 |
|--------------------|------------------------|

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 EA₃G.

| | |
|--------------------|------------------------|
| member = \$60/ €48 | non member = \$70/ €56 |
|--------------------|------------------------|

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 EA₃G

| | |
|--------------------|------------------------|
| member = \$40/ €32 | non member = \$50/ €40 |
|--------------------|------------------------|

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.

| | |
|----------------------|--------------------------|
| member = \$125/ €100 | non member = \$135/ €110 |
|----------------------|--------------------------|

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

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$65/ €55 | non member = \$70/ €55 |
|--------------------|------------------------|

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

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$65/ €55 | non member = \$70/ €60 |
|--------------------|------------------------|

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

Order from EA₃G.

| | |
|--------------------|------------------------|
| member = €65/ \$80 | non member = €75/ \$90 |
|--------------------|------------------------|

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).

Order from EA₃G or PAG

| | |
|----------------------|--------------------------|
| member = \$125 /€100 | non member = \$140/ €115 |
|----------------------|--------------------------|

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 EA₃G or PAG

| | |
|---------------------|-------------------------|
| member = \$ 65/ €55 | non member = \$ 75/ €60 |
|---------------------|-------------------------|

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

Order from EA₃G.

| | |
|---------------------|-------------------------|
| member = \$ 65/ €55 | non member = \$ 75/ €60 |
|---------------------|-------------------------|

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 EA₃G.

| | |
|--------------------|------------------------|
| member = €50/ \$60 | non member = €60/ \$75 |
|--------------------|------------------------|

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. 1 275 pages. 3 volume set

Order from NIG.

| | |
|-----------------|---------------------|
| member =¥ 20000 | non member =¥ 25000 |
|-----------------|---------------------|

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 |

Order from NIG.

| | |
|-----------------|----------------------|
| member = ¥ 8000 | non member = ¥ 10000 |
|-----------------|----------------------|

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 & Japan . |

Order from NIG.

| | |
|-----------------|----------------------|
| member = ¥ 8000 | non member = ¥ 10000 |
|-----------------|----------------------|

Volume 3 (MEDICINE) includes: 225 pages

Poster Presentations (including 14 papers on Ozone in Medicine)

Order from NIG.

| | |
|-----------------|---------------------|
| member = ¥ 4000 | non member = ¥ 5000 |
|-----------------|---------------------|

14TH OZONE WORLD CONGRESS, 1999 _____

Dearborn, USA

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

Order from PAG or EA₃G

| | |
|----------------------|--------------------------|
| member = \$125/ €100 | non member = \$150/ €120 |
|----------------------|--------------------------|

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(cont'd) _____

Advanced Oxidation
Measurement and Quality Assurance
Ozone Contacting Systems

Order from PAG or EA₃G.

| | |
|---------------------|-------------------------|
| member = \$ 65/ €55 | non member = \$ 80/ €65 |
|---------------------|-------------------------|

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 |
|---------------------|-------------------------|

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.**

Order from PAG or EA₃G

4 Volume Set

| | |
|-----------------------|------------------------|
| member= \$180 or €145 | non-member= \$330/€255 |
|-----------------------|------------------------|

CD ROM

| | |
|-----------------------|------------------------|
| member= \$150 or €115 | non-member= \$180/€135 |
|-----------------------|------------------------|

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(con'd)_____

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
- Arterical Circulatory Disorders
- Orthopedics and Rheumatic Diseases

Order from PAG or EA3G

(Single Volume)

| | |
|---------------------|----------------------|
| member= \$50 or €40 | non-member= \$70/€56 |
|---------------------|----------------------|

(Volumes I,II,III)

| | |
|-----------------------|------------------------|
| member= \$140 or €115 | non-member= \$155/€125 |
|-----------------------|------------------------|

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

Order from PAG

| | |
|-----------------------|------------------------|
| member= \$140 or €115 | non-member= \$155/€125 |
|-----------------------|------------------------|

17TH OZONE WORLD CONGRESS,2005

Strasbourg, France

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 only.

Order from EA3G

| |
|-------------|
| member €125 |
|-------------|

| |
|----------------|
| nonmember €150 |
|----------------|



REGIONAL CONFERENCE PROCEEDINGS

Proceedings of the PAG Fresno Conference

OZONE IV: APPLICATIONS OF OZONE AS AN ANTIMICROBIAL AGENT IN THE FOOD AND AGRICULTURE INDUSTRIES

Fresno, CA 2005

Contains 37 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.

Order from PAG

| | |
|------------------|----------------------|
| member = \$35.00 | nonmember = \$ 40.00 |
|------------------|----------------------|

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

| | |
|------------------|---------------------|
| member = \$70.00 | nonmember = \$90.00 |
|------------------|---------------------|

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.**

Order from PAG

| |
|---------------------|
| member = \$ 50/ €40 |
|---------------------|

| |
|-------------------------|
| non member = \$ 75/ €60 |
|-------------------------|

Proceedings of the EA₃G Barcelona Conference

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

Barcelona, Spain 2004

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

Order from EA₃G (Book + CD ROM)

| |
|---------------------|
| member = \$ 50/ €40 |
|---------------------|

| |
|-------------------------|
| non member = \$ 75/ €60 |
|-------------------------|

Proceedings of EA3G Conference entitled

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)

| |
|------------------|
| member €50/ \$60 |
|------------------|

| |
|-----------------------|
| non member \$55/ \$65 |
|-----------------------|

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)

| | |
|--------------------|------------------------|
| member = \$50/ €40 | non member = \$55/ €45 |
|--------------------|------------------------|

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.

Order from PAG Group(CD ROM)

| | |
|--------------------|------------------------|
| member = \$50/ €40 | non member = \$75/ €60 |
|--------------------|------------------------|

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.**

Order from Pan American Group

| | |
|--------------------|--------------------|
| member = \$75/ €60 | member = \$90/ €72 |
|--------------------|--------------------|

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.

Order from Pan American Group

| | |
|---------------------|------------------------|
| member = \$ 70/ €56 | non member = \$90/ €72 |
|---------------------|------------------------|

Proceedings of the EA3G Conference entitled,

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

| | |
|--------------------|-------------------------|
| member = €75/ \$90 | non member = €90/ \$110 |
|--------------------|-------------------------|

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.

Order from EA₃G CD-ROM :

| | |
|--------------------|-------------------------|
| member = €70/ \$85 | non member = €90/ \$110 |
|--------------------|-------------------------|

**Proceedings of the International Ozone Symposium on the occasion of
THE 200TH ANNIVERSARY OF CHRISTIAN FRIEDRICH SCHOENBEIN, THE DIS-
COVERER 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.

Order from EA₃G.

| | |
|--------------------|------------------------|
| member = €60/ \$75 | non member = €75/ \$90 |
|--------------------|------------------------|

**Proceedings of the EA3G Conference entitled,
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.

Order from EA₃G.

| | |
|--------------------|-------------------------|
| member = €75/ \$90 | non member = €90/ \$110 |
|--------------------|-------------------------|

Proceedings of the Annual PAG Conference,

Vancouver, British Columbia, Canada, 1998.

Proceedings from this Conference has 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.

Order from Pan American Group.

| | |
|---------------------|------------------------|
| member = \$ 70/ €56 | non member = \$85/ €70 |
|---------------------|------------------------|

**Proceedings of the EA3G 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.

Order from EA₃G.

| | |
|--------------------|-------------------------|
| member = €75/ \$90 | non member = €90/ \$110 |
|--------------------|-------------------------|

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.

Order from Pan American Group.

| | |
|--------------------|-------------------------|
| member = \$ 70/ €6 | non member = \$ 85/ €68 |
|--------------------|-------------------------|

Proceedings of the EA₃G Conference entitled,

***INTERNATIONAL CONFERENCE ON OZONATION AND RELATED OXIDATION
PROCESSES IN WATER AND LIQUID WASTE TREATMENT.***

Berlin, Germany, 1997.

Contains presentations covering colour 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).

Order from EA₃G.

| | |
|--------------------|-------------------------|
| member = €75/ \$90 | non member = €90/ \$110 |
|--------------------|-------------------------|

**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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$65/ €50 | non member = \$70/ €55 |
|--------------------|------------------------|

**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 ultra-violet 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.

Order from EA3G.

| | |
|--------------------|-------------------------|
| member = €65/ \$80 | non member = €80/ \$100 |
|--------------------|-------------------------|

**Proceeding of the EA₃G 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.

Order from EA₃G.

| | |
|--------------------|------------------------|
| member = €60/ \$75 | non member = €75/ \$90 |
|--------------------|------------------------|

**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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$70/ €56 | non member = \$85/ €68 |
|--------------------|------------------------|

**Proceedings of the PAG Conference entitled,
ADVANCES IN THE APPLICATION OF OZONE IN WATER AND WASTEWATER
TREATMENT**

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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$49/ €40 | non member = \$54/ €45 |
|--------------------|------------------------|

**Proceedings of the EA₃G Conference entitled,
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.

Order from EA₃G.

| | |
|--------------------|------------------------|
| member = €60/ \$75 | non member = €75/ \$90 |
|--------------------|------------------------|

**Proceedings of the EA₃G Conference entitled,
APPLICATION OF OZONE IN WATER AND WASTEWATER TREATMENT**
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.

Order from EA₃G.

| | |
|--------------------|------------------------|
| member = €60/ \$75 | non member = €75/ \$90 |
|--------------------|------------------------|

**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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$49/ €40 | non member = \$64/ €45 |
|--------------------|------------------------|

**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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$65/ €50 | non member = \$70/ €55 |
|--------------------|------------------------|

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.

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$65/ €50 | non member = \$70/ €55 |
|--------------------|------------------------|

**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

Order from Pan American Group.

| | |
|--------------------|------------------------|
| member = \$49/ €40 | non member = \$54/ €45 |
|--------------------|------------------------|



GENERAL IOA PUBLICATIONS

Including Special Reprints from
OZONE SCIENCE & ENGINEERING
The Journal of the International Ozone Association

OZONE: SCIENCE & ENGINEERING CD ROM SET

A complete set of OS&E articles for Volumes 1-25 is available in a 2-CD ROM set. A master index is provided at the beginning of the CD so the keyword and author searching is simplified. **As older issues of OS&E are now out of print, this is the best way to obtain articles published in OS&E.**

Order from regional IOA office.

| | |
|-----------------------|---------------------------|
| member = \$ 350/ €280 | non member = \$ 600/ €480 |
|-----------------------|---------------------------|

" 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.

Order from Pan American Group.

| | |
|----------------|--------------------|
| member = \$ 12 | non member = \$ 15 |
|----------------|--------------------|

" 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.

Order from Pan American Group.

| | |
|----------------|--------------------|
| member = \$ 12 | non member = \$ 15 |
|----------------|--------------------|

"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.

Order as reprint from EA3G

| | |
|------------------------|--------------------------|
| non member = €35/ \$40 | non member = \$ 40/ \$45 |
|------------------------|--------------------------|

"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.

Order from Pan American Group.

| | |
|---------------------|-------------------------|
| member = \$ 75/ €60 | non member = \$ 80/ €64 |
|---------------------|-------------------------|

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.

Order from Pan American Group.

| | |
|---------------------|-------------------------|
| member = \$ 28/ €25 | non member = \$ 33/ €30 |
|---------------------|-------------------------|

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 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.

Order from Pan American Group.

| | |
|---------------------|------------------------|
| member = \$ 75/ €60 | non member = \$80/ €64 |
|---------------------|------------------------|

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.

Order from Pan American Group.

| | |
|---------------------|-------------------------|
| member = \$ 25/ €20 | non member = \$ 30/ €25 |
|---------------------|-------------------------|

OZONE / CHLORINE DIOXIDE OXIDATION PRODUCTS OF ORGANIC MATERIALS

Edited by Rip G. Rice, Ph. D. and Joseph A. Cotruvo, Ph.D.

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.

Order from Pan American Group.

| | |
|--------------------|-------------------------|
| member = \$50/ €40 | non member = \$ 55/ €45 |
|--------------------|-------------------------|

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.

Order from Pan American Group.

| | |
|----------------|-------------------|
| member = \$ 25 | non member = \$30 |
|----------------|-------------------|

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.

Order from Pan American Group.

| | |
|----------------|-------------------|
| member = \$ 70 | non member = \$75 |
|----------------|-------------------|

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

Order from Nippon Islands Group.

| | |
|-----------------|---------------------|
| member = ¥ 4000 | non member = ¥ 5000 |
|-----------------|---------------------|

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

| |
|-------------------------|
| member/non member = €72 |
|-------------------------|

“Standardization Committee 1989 Colorimetric Method for Determination of Traces of Ozone in Water”

| | |
|---------------|-------------------|
| member = \$12 | non member = \$15 |
|---------------|-------------------|

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.

Available in CD ROM only.

Order from PAG.

| | |
|------------------------|---------------------------|
| member \$125.00 | nonmember \$150.00 |
|------------------------|---------------------------|

**Ozone in Drinking Water Treatment
Process Design, Operation and Optimization**
by Kerwin L. Rakness, Process Applications, Inc.



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

Available in CD ROM only.

| | |
|-----------------------|--------------------------|
| member \$60.00 | nonmember \$90.00 |
|-----------------------|--------------------------|

Order from PAG member = \$60.00 nonmember = \$90.00



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 to 112 pages.

IOA members receive an electronic version of OS&E as part of their membership fee. Non-members may contact Taylor & Francis subscription office.: 1-215-625-8900 or www.taylorandfrancis.com. It may be possible to order selected older back issues from the IOA

Order from Pan American Group : each issue

| | |
|----------------------|--------------------------|
| member = \$25 | non member = \$30 |
|----------------------|--------------------------|

Order from EA3G : each issue

| | |
|----------------------|--------------------------|
| member = \$25 | non member = \$30 |
|----------------------|--------------------------|

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.

IOA members receive Ozone News free. For non-member subscription, contact the Editorial Office :

Editorial Office

Mr Barry L. Loeb

Editor-in-Chief, Ozone News and OS&E

7534 Squirrel Creek Drive

Cincinnati, Ohio 45247-3611

Phone/Fax : (01) 513 385-3906

e-mail : blloeb@fuse.net

UPCOMING IOA MEETINGS

April 3, 2006

Ozone and UV; sustainable solutions for industry and the environment, in conjunction with Wasser Berlin 2006.

This event will build upon the previous conferences held during Wasser Berlin Exhibitions, to provide international attendees with updated information on the benefits of ozone and UV, including advanced oxidation, to user in applications, such as environmental protection and industrial production processes.

**For more information contact Conference coordinator:
Kompetenzzentrum Wasser Berlin GmbH.**

Email: koontact@kimpetenz-wasser.de

Tel: +49 30 536 53 800

Fax: +49 30 356 53 888

Websites: www.ioa-ea3g.org; www.kompetenzwasser.de

PUBLICATIONS ORDER FORM

Instructions:

Detach or copy this form to place orders.

Orders must be directed to the IOA office indicated on the price line of each publication. Two prices are shown for each item. The first, lower price is for IOA members and the second is for non members. Orders may be charged against Visa or MasterCard accounts, or prepaid in the proper currency and must include the shipping and handling cost.

NOTE : Address orders to the appropriate IOA office. (See instructions above)

• **IOA Pan American Group** : Mr. Robert Miller
PO Box 8761, Scottsdale, AZ 85252 **Tel.** : (1) 480-529-3787 **Fax** : (1) 480-361-7725 **e-mail** : info@io3a.org

28

Note : For orders from the Pan American Group, add \$ 7.50 per book for within USA shipments. We will have to advise on shipping cost outside the USA, and for air mail costs. Air mail delivery charges are higher and depend on weight and destination.

• **IOA European African Australasian Group** : Ms. Béatrice BERNARD
IOA-EA3G, Bat. ESIP, 40, av. Du Recteur Pineau F-86022 Poitiers Cedex, FRANCE
Tel. : 33(0) 5 49 45 44 54 **Fax** : 33(0) 5 49 45 40 60 **e-mail** : ioa@esip.univ-poitiers.fr

Note : For orders from the European African Australasian Group, add €7.50 per Book (Europe) and €10 (all other countries) by surface mail for shipping and handling.

• **IOA Nippon Island Group** : Mr. Hirofumi Takahara
Japan Ozone Association, Homei Building, 8th Fl., 1-3-19, Akasaka, Minato-ku, Tokyo 107-0052, JAPAN
Tel. : (81) 335 835 210 **Fax** : (81) 335 831 461 **e-mail** : joa@mwd.biglobe.ne.jp

**I
O
A₃**