

## Aquatic Ecosystem Health & Management

### SPECIAL ISSUES

- Aquatic Ecosystems of Malaysia: Health, Sustainability and Management (Volume 9, issue 2, 2006)
- Aquatic Ecosystems of China: Concerns, Technologies and Management (Volume 9, issue 1, 2006)
- Aquatic Ecosystem Health: Scaling from Local to Global Perspectives (Volume 8, issue 4, 2005)
- The Great Himalayas: Ecology, Health and Management (Volume 8, issue 3, 2005)
- Emerging Issues in Lake Superior Research (Volume 7, issue 4, 2004)
- Assessing Risk and Impacts of Contaminants in Sediments (Volume 7, issue 3 and Volume 8, issue 1, 2004/2005)
- Coastal wetlands of the Laurentian Great lakes: Health, Integrity and Management (Volume 7, issue 2, 2004)
- Comparing Great Lakes of the World (Volume 6, issue 3, 2003)
- Barometers of Aquatic Ecosystem Health and Integrity (Volume 6, issue 2, 2003)
- Freshwater Biodiversity in Australia (Volume 6, issue 1, 2003)
- Great Lakes of the World: Food Web, Fisheries, and Management (Volume 5, issue 3, 2002)
- Resilience and Integrity of Aquatic Ecosystems (Volume 5, issue 1, 2002)
- Freshwater Fish Habitat, Science and Management: A Global Perspective (Volume 4, issue 4, 2001)
- Aquatic Ecosystems of Tropical and Temperate Regions: Health and Management (Volume 4, issue 3, 2001)
- State of Brazilian Aquatic Ecosystems (Volume 3, issue 4, 2000)
- Ecosystem Health of Lake Baikal, Russia (Volume 3, issue 2, 2000)
- Large Lakes of the World: Comparative Ecology (Volume 3, issue 1, 2000)
- Sediment Quality Assessment: Tools, Criteria and Strategies (Volume 2, issue 4, 1999)
- Jack Christie Memorial Essays (Volume 2, issue 3, 1999)

### BACK ISSUES\*

Issues from previous years are available from: Taylor & Francis Inc., Customer Service  
325 Chestnut Street, Philadelphia, PA 19106 Tel: 800-354-1420, ext. 216  
Fax: 215-625-2940, Email: [customerservice@taylorandfrancis.com](mailto:customerservice@taylorandfrancis.com)  
Complete volumes and single parts for earlier years are available from:  
Periodicals Service Company, 11 Main Street, Germantown, NY 12526  
Tel: 518-537-4700, Fax: 518-537-5899, Email: [psc@backsets.com](mailto:psc@backsets.com)

\* Issues are subject to availability

### BOOKS OF RELATED INTEREST

From Taylor and Francis  
**EGOTOXICOLOGICAL TESTING OF MARINE AND FRESHWATER ECOSYSTEMS: Emerging Techniques, Trends and Strategies**

Edited by: P.J. den Besten, Institute for Inland Water Management and Waste Water Treatment, Lelystad, Netherlands and M. Munawar, Fisheries and Oceans Canada, President, AEHMS; Chief Editor, Aquatic Ecosystem Health and Management; Series Editor, Ecosystem World Monograph Series, Burlington, Ontario, Canada

Explores the multi-tiered approaches to the preservation, enhancement, and restoration of ecosystem functions as well as risk perception and communication strategies.

Catalog no. 3526 • March 2005, 296 pp. • ISBN: 0-8493-5264-4  
\$149.95/\$58.00

In the US, to order call 800-272-7737, or visit [www.crcpress.com](http://www.crcpress.com)

### From the AEHMS

The Gulf Ecosystem: Health and Sustainability,  
N. Khan, M. Munawar, A. Price (Eds.), 2002.

Sediment Quality Assessment and Management: Insight and Progress,  
M. Munawar (Ed.), 2003.

State of Lake Ontario(SOLO): Past, Present and Future,  
M. Munawar (Ed.), 2003.

State of Lake Michigan (SOLM): Ecology, Health and Management,  
T. Edsall, M. Munawar (Eds.), 2006.

For more details about the books published, please visit the Ecosystem World Monograph Series at [www.aehms.org](http://www.aehms.org)

An international journal devoted to the understanding of ecosystem structure, performance, and management....



Chief Editor:  
**M. Munawar**

Ask your institution to subscribe today!

Official Journal of the Aquatic Ecosystem Health & Management Society



Taylor & Francis  
Taylor & Francis Group

Focusing on the health and sustainability of global aquatic resources...



Request your Free Sample Copy!

Taylor & Francis  
Taylor & Francis Group

325 Chestnut Street • Philadelphia, PA 19106

PRSTD STD  
U.S. Postage  
PAID  
Permit #6  
Philadelphia, PA

FIRST-CLASS MAIL PERMIT NO. 36259 PHILADELPHIA, PA

POSTAGE WILL BE PAID BY ADDRESSEE

**TAYLOR & FRANCIS**  
325 Chestnut Street  
Philadelphia, PA 19106-9118



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES

### ONLINE SERVICES AVAILABLE FROM TAYLOR & FRANCIS

#### SARA

Scholarly Articles Research Alerting (SARA) is a free email contents alerting service designed to deliver tables of contents for more than 1,000 journals of your choice in advance of the printed version. Registering for the service is simple and you can now request to receive alerts by main category, subcategory, title or keyword. For more information visit [www.tandf.co.uk/sara](http://www.tandf.co.uk/sara).

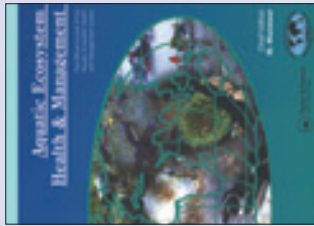
**Online Access:** Institutional subscribers to the print version of the 2005 volume can enjoy online access free of charge. For further information visit [www.tandf.co.uk/online](http://www.tandf.co.uk/online)

**CrossRef:** is an international active reference linking service. For more information visit: [www.crossref.org](http://www.crossref.org).

#### E-Updates

Register your e-mail address at [www.tandf.co.uk/updates](http://www.tandf.co.uk/updates) to receive information on books, journals, and other news within your areas of interest.

# Aquatic Ecosystem Health & Management



is the official journal of the Aquatic Ecosystem Health and Management Society. **Aquatic Ecosystem Health & Management** promotes understanding of the structure, function, and performance of healthy and damaged aquatic ecosystems (freshwater, marine, estuarine) from integrated, multi-disciplinary and sustainable perspectives.

This peer-reviewed journal focuses on the development and application of management practices that will protect, maintain, remediate, or restore the health of these ecosystems and their sustainable use by humans. **Aquatic Ecosystem Health & Management** recognizes the need to explore the complex interactions between human society, ecology, economy/development, politics, and the environment. It also encourages a watershed approach which is influenced by atmospheric and terrestrial processes, both natural and anthropogenic.

The journal provides a forum for the assessment and discussion of ecosystemic, integrated approaches to aquatic ecosystem research and management, including concepts and approaches that address health, integrity, performance, efficiency, remediation, natural recovery, restoration, conservation, and sustainable human use.

## Aquatic Ecosystem Health & Management features...

- Peer-reviewed original papers;
- State of the art reviews and critiques on current issues and topics;
- Invited perspectives essays;
- Short communications dealing with concepts, techniques, and ideas warranting rapid publication;
- Special issues devoted to selected themes, approaches, ecosystem types, and ecotechnologies;
- ecotoxicology and aquatic toxicology.

The journal seeks to foster international and cross-sectoral exchange of information among scientists, academics, managers, engineers, lawyers, citizens, politicians, business people, industry leaders, and governments on the health and sustainability of global aquatic resources.

**Join Now!**

## The Aquatic Ecosystem Health and Management Society

*Interested in joining the Aquatic Ecosystem Health and Management Society?*

Membership fees include the journal with free online access:  
One year (2006): US\$60/Two Years (2006-2007): US\$110

For more information please contact AEHMS:  
E-mail: [formmer@dfo-mpo.gc.ca](mailto:formmer@dfo-mpo.gc.ca) • Phone: 905-336-4867 • Fax: 905-634-3516  
Visit our web site: [www.aehms.org](http://www.aehms.org)



## EXAMPLES OF CURRENT ARTICLES

Nitrogen and phosphorus loads from agricultural non-point sources based on grid-based geographic information systems (GIS). *J. H. Hong and J. Huang (China)*

Blue-green algae is predominant in Dianshan Lake, Z. Zhang, W. Qu, S. Jiang and H. Zhu (China)  
*L.-P. Zhang, W.Q. Chen and X.Z. Xie (China)*

A case study of urban environment – economic management in Xiamen, China. *Z.F. Yang, M.R. Su and L.Y. Xu (China)*

Developing public environmental education: Improving community-based environmental management. *X. Xue, H. Hong, L. Zhang, X. Xu and S.S. Shen (China)*

Scaling in ecotoxicology: Theory, evidence and research needs. *A.R. Johnson and J.H. Rodgers, Jr. (USA)*

Is the Arabian Gulf really such a lowspot of biodiversity? – Scaling effects and management implications. *A.R.G. Price and C. Isarak (UK)*

An overview of the impact of non-indigenous species on the food web integrity of North American Great Lakes: Lake Erie example. *M. Munawar, I.F. Munawar, N.E. Mandrak, M. Fitzpatrick, R. Dermott and J. Leach (Canada)*

Abundance, morphological diversity, and spatial distribution of autotrophic picoplankton in Lake Hovsgol (Mongolia). *O.I. Belykh, E.G. Sorokovikova, I.V. Tikhonova and A.F. Fedotov (Russia)*

Persistent organic pollutants and mercury in the Himalaya. *M. Loeven, S. Sharma, G. Tomiy, F. Hang, P. Ballock and F. Wania (Canada)*

The Upper Mustang (Nepal) ecosystem: population, water quality and tourism. *A.M. Boselli, G.L. Caravello and A. Baroni (Italy)*

Evaluating methods for assessing sediment quality in a Great Lakes embayment. *J.L. Crane, C. Richards, D. Brennan, S. Lozano and J.A. Schuldt (USA)*

Bacterial productivity in Lake Superior, 2001: Implications for food web efficiencies in oligotrophic freshwater ecosystems. *R.T. Heath and M. Munawar (USA-Canada)*

The contribution of cobalt and manganese to the acute and chronic toxicity of sediments from Lake Mohitbyggen and adjacent lakes around Leksand, Sweden. *G. Dave and E. Nilsson (Sweden)*

Science for freshwater fish and habitat management in Canada: Current status and future prospects. *C. K. Mims (Canada)*

Response of phytoplankton, zooplankton and fish to re-oligotrophication: an 11-year study of 23 Danish Lakes. *E. Jeppesen, J. P. Jensen and M. Sindinggaard (Denmark)*

Recent advances in our understanding of sediment-to-water contaminant fluxes: The soluble release fraction. *L.J. Thibodeaux (USA)*

Organic Carbon Biogeochemistry of Lake Superior. *J.B. Côté, B.A. Bidanda, W. Mahino and E. Stets (USA-Japan)*

Access Your FREE Online Sample Copy!  
To receive your free sample copy by mail  
call 1-800-354-1420, Press \*4\* or  
Email us at [customerservice@taylorandfrancis.com](mailto:customerservice@taylorandfrancis.com)

## Order Form

**Please enter my subscription to:**  
Aquatic Ecosystem Health & Management

Quarterly, Volume 9, 2006

ISSN Print: 1463-4988 • ISSN Online: 1539-4077

Institutional print including online access: US\$265/E438\*

Institutional online-only: US\$224/E16\*

Please send me a Free Sample Copy

To access your free Online Sample Copy please visit:

[www.tandf.co.uk/journals/titles/14634988.asp](http://www.tandf.co.uk/journals/titles/14634988.asp)

\*Online access is available only with institutional subscriptions. For information on your online access, visit our web page at <http://www.tandf.co.uk>

US\$ Subscriptions are entered on an annual basis, i.e., January to December.

Payment Methods  VISA  MC  AMEX

Card #..... Exp.....

Signature.....

Telephone..... (required for credit card purchases)

Check or Money Order Enclosed (checks payable to Taylor & Francis US funds only).

Please send me an invoice.

PO #..... Date.....

Bill To/Ship To:.....

Name.....

Address.....

City..... State..... Zip.....

UK and all other territories:

Taylor & Francis

Informa UK Ltd

Customer Services Department

One Gunpowder Square

Philadelphia, PA 19106

Tel: (215) 625-2940

Fax: (215) 625-2940

customerservice@taylorandfrancis.com

[www.tandf.co.uk](http://www.tandf.co.uk)

Library Recommendation Form

Dear Librarian,

I would like to recommend a subscription to **Aquatic Ecosystem Health & Management**, published by Taylor & Francis.

Name.....

Department.....

Subscription Information:

Volume 9 (2006), 4 issues per year

ISSN Print: 1463-4988 • ISSN Online: 1539-4077

Please enter our

Institutional print subscription including online access at US\$265/E438

Institutional online-only subscription at US\$224/E16

For further details on free online access, visit [journalsonline.tandf.co.uk](http://journalsonline.tandf.co.uk)

North America:

Taylor & Francis

Customer Services

325 Chestnut Street

P. O. Box 199

Philadelphia, PA 19106

## Editorial Advisory Board

- R. Baudo**, Italy  
**U. Borgmann**, Canada  
**G.A. Burton**, USA  
**J. Cairns, Jr.**, USA  
**T.A. Edsall**, USA  
**C. vd. Gucht**, The Netherlands  
**R. T. Heath**, USA  
**W. J. Junk**, Germany  
**M. Van Der Kraak**, The Netherlands  
**F. Krupp**, Germany  
**J. Leach**, Canada
- H. J. MacIsaac**, Canada  
**N. Mandrak**, Canada  
**E. Mills**, USA  
**C. K. Minns**, Canada  
**K. Munkittrick**, Canada  
**T. Nagamura**, Japan  
**A. R. G. Price**, UK  
**J. R. Vallentyne**, Canada  
**R.A. Vollenweider**, Canada  
**A. R. Zafar**, India

## Editorial Board

- F. Al-Yamani**, Kuwait  
**O. Belykh**, Russia  
**B. Børjesson**, Qatar  
**I. Bryceson**, Norway  
**E. de Deckere**, Belgium  
**A. Ghudonani**, Australia  
**N. Gopinath**, Malaysia  
**W. Hamza**, U.A.E  
**R. Hecky**, Canada  
**E. Irvine**, Ireland  
**E. Jeppesen**, Denmark  
**A. R. Johnson**, USA  
**T. Johnson**, Canada  
**J. R. Kelly**, USA  
**V. Laangenberg**, The Netherlands
- X.-D. Li**, Hong Kong  
**J. Makarewicz**, USA  
**T. Nalepa**, USA  
**I. A. Nascimben**, Brazil  
**S.A. Ostroumov**, Russia  
**F. Rost**, The Netherlands  
**J. Sarvala**, Finland  
**N.A. M. Shazili**, Malaysia  
**J. M. Sherry**, Canada  
**R. K. Sinha**, India  
**M. Viljanen**, Finland  
**S. Watson**, Canada  
**D.V.C. Weseloh**, Canada  
**T. Weisse**, Austria  
**F. M. Yusoff**, Malaysia

## AEHMS Executive Committee

- President: **M. Munawar**, Canada  
Treasurer: **D.F. Malley**, Canada  
Secretary: **S. G. Lawrence**, Canada

## Publications/Membership Committee:

- M. Munawar**, Canada  
**R. Baudo**, Italy  
**G. Dave**, Sweden  
**R.T. Heath**, USA  
**J. Leach**, Canada  
**I.F. Munawar**, Canada  
**M. van der Kraak**, The Netherlands

AFFIX  
POSTAGE  
HERE

**TAYLOR & FRANCIS**  
325 Chestnut Street  
Philadelphia, PA 19106-9118