



# IWRA UPDATE

newsletter of the International Water Resources Association

## A NOTE FROM THE PRESIDENT

If you have been looking for your March issue of *Water International (WIN)*, don't blame your postal carrier for its loss. Due to unforeseen circumstances, the issue was delayed and was finally mailed on 17 May 1995. The June issue likely will be delayed as well. We apologize for the inconvenience.

I am pleased to announce that Prof. F. Lee Brown of the Department of Economics at the University of New Mexico, Albuquerque, NM, has been appointed IWRA Executive Director, effective 1 July 1995. A detailed biography will appear in the June 1995 issue of *WIN*. All the membership files, record keeping, organizing of meetings, editing of *UPDATE* and other business functions will be transferred to New Mexico in mid-July.

If you plan to attend the IUGG meetings in Boulder, CO, USA from 2-13 July, you are invited to join an ad hoc meeting of IWRA officers to meet Executive Director Lee Brown. The meeting, which will be hosted by Gilbert F. White, will be held from 9 am-3 pm July 9 at the Natural Hazard Center. *WIN* Editor Bhowmik and I will be present to discuss and develop strategies for enhancement of IWRA's mission during the next three years.

I attended the Interim Founding Committee of the World Water Council (WWC) in Montreal on 31 March-1 April, chaired by Past President M. Abu-Zeid. Preliminary strategies for the operation and management of a WWC were developed and been circulated for comments and enlistment of sponsors. WWC membership is open to individuals and institutions who would serve in a "think tank" mode. WWC could become a leading institution to enhance the management of global water resources. Watch *WIN* for more details, or contact the Executive Director.

IWRA recently became a partner in a dialogue between institutions in North and South America to expand interactions on water-related issues, transboundary water management activities, etc. The Organization of American States (OAS) has been asked to provide the Secretariat to coordinate various functions. Argentina has offered to host a technical conference in April, 1996. Again, watch *WIN* for details as they develop.

I just returned from Bangladesh where I attended a seminar on "Comparative Evaluation of Flood Control Approaches for Bangladesh and Mississippi River." Management of floods to mitigate damages in Bangladesh is almost an impossible task.

I would like to meet any IWRA member who might be present at the CWRA conference on 20-23 June in Canada; at IUGG in Boulder, CO on 9 July; Stockholm Water Symposium on 13-18 August; Radar Conference in Sao Paulo, Brazil on 20-23 August; or Bari, Italy on 16-18 September.

Several members still have failed to pay their 1995 dues. Please do so promptly so we might complete the processing before transferring the financial records to New Mexico. The University of Illinois has authorized the continued use of office space for the IWRA President in Urbana, Illinois. A directory of membership as of 15 May 1995 has been printed. A copy may be obtained by sending US \$17.00 to the Urbana office to cover the costs of reproduction and mailing.

Glenn E. Stout  
President

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## STOCKHOLM WATER PRIZE AWARDED

WaterAid, a practical charity based in Great Britain, is the recipient of the Stockholm Water Prize for 1995. The prize, which amounts to US \$150,000, was awarded for bringing water and sanitation facilities to over three million people in the world's poorest countries. Alf Goran, chairman of the Stockholm Water Prize Nominating Committee, called WaterAid "...a standard bearer for all non-governmental organizations in the water and sanitation sector."

WaterAid was established in 1981 following a conference entitled "Thirsty Third World," held in London. Its goals were to target some of the world's poorest people, to instigate programs of self-help where drinking water, sanitation and health education were to be regarded as integral parts, to provide low-cost simple programs and highlight sustainability and replication.

The Stockholm Water Prize is awarded annually to an individual or organization in recognition of outstanding contributions in the field of water conservation. It will be awarded on 17 August 1995 during the Stockholm Water Festival. IWRA was recently selected to serve on the nominating committee for the Stockholm Water Prize.

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## CALL FOR PAPERS

### WATER: A TRIGGER FOR CONFLICT; A REASON FOR COOPERATION

The Indiana Center for Global Change and World Peace is sponsoring a conference entitled, "Water: A Trigger for Conflict; A Reason for Cooperation." The conference will be held from 7-10 March 1996 on the campus of Indiana University, Bloomington, IN, USA and will focus primarily on the international aspects of water resources.

Proposals for paper representations and/or panel topics are being invited on the following topics: overview of trends in water resource management; water and international security; common property resources and alternative agreements; environmental problems: case studies; and prospects for cooperation. Proposals are due by 31 August 1995.

IWRA will cosponsor the conference. Prof. Evan Vlachos of Colorado State University and President Stout will participate in the planning.

For further information, please contact:

Jack W. Hopkins, Director  
Indiana Center on Global Change and World Peace  
Indiana University  
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Bloomington, IN 47405 USA  
Tel: 812-855-8862; FAX: 812-855-3209  
E-mail: ICGCWP@INDIANA.EDU

### DAM SAFETY EVALUATION

The Second International Conference on Dam Safety Evaluation will be held from 26-30 November 1996 in Trivandrum, India. The conference is being organized by the Central Board of Irrigation and Power and the Committee for International Commission on Large Dams, India (ICOLD).

Papers are being solicited in the areas of dam safety with emphasis on: review of design and investigation data; rehabilitation of dams in distress, evaluation of spillways and strengthening structures; remedial and rehabilitation measures for arresting excess leaching and seepage; automation of flood warning systems; instrumentation of existing dams; seismic aspects of dam safety; hydrological safety of dams; case studies; research needs in dam safety and dam safety legislations.

500-word abstracts for papers are due by 31 August 1995.

For further information or to submit a paper, please contact:

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Central Board of Irrigation and Power  
Malcha Marg, Chanakyapuri  
New Delhi-110021 INDIA  
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### UPDATE Staff

Glenn E. Stout, *Editor*  
Catherine E. Walker, *Assistant Editor*  
Denny Arvola, *Membership Secretary*

## NEW PUBLICATIONS

### BOOKS

*Water Resources Management; A World Bank Policy Paper.* The World Bank, 1818 H Street, N.W., Washington D.C., 20433, USA, 140 pp.

*The Super-Green Revolution in the Jordan Valley.* Sharif S. Elmusa. Center for Contemporary Arab Studies, Georgetown University, Washington, D. C. 20057, USA, 217 pp.

*Statements and Recommendations from Major International Meetings on Water Resources, Water Supply and Sanitation.* The Science Technology and Private Sector Division, United Nations Development Programme, One United Nations Plaza, FF-12-102, New York, NY 10017 USA, 1994, Tel: 212-906-5858, 128 pp.

*Locally Managed Irrigation Systems: Essential Tasks and Implications for Assistance, Management and Turnover Programs.* Robert Yoder. Int'l Irrigation Management Institute. P. O. Box 2075, Colombo, Sri Lanka, 1994, 97 pp.

*Towards Better Water Resources Management: A Catalogue of Policies and Strategies of External Support Agencies.* Jan Teun Visscher and Maria Sorensson. IRC International Water and Sanitation Centre, P. O. Box 93190, 2509 AD, The Hague, The Netherlands, 1994, Tel: +31-(0)70-33 141 33; FAX: +31 (0)70-38 140 34, 196 pp.

*Introduction to the Use of Geographic Information Systems for Practical Hydrology.* Allard M.J. Meijerink, Hans A.M. de Brouwer, Chris M. Mannaerts and Carlos Valenzuela. Publication No. 23, The International Institute for Aerospace Survey and Earth Science (ITC), The Netherlands.

*Land Surface Processes in Large-scale Hydrology.* J. D. Kalma and I. R. Calder. WMO No. 803, WMO, P. O. Box 2300, 1211 Geneva 2, Switzerland, 1994.

*An Overview of Selected Techniques for Analyzing Surface-Water Data Networks.* W. O. Thomas, Jr. Operational Hydrology Report No. 41, WMO No. 806, WMO, P. O. box 2300. 1211 Geneva 2, Switzerland, 1994, 30 pp.

*Wastewater Treatment: An Environmental Primer.* Tom M. Pankratz. Saudi Amoudi Group Co.

*Health guidelines for the use of wastewater in agriculture and aquaculture, Report of a WHO Scientific Group.* Technical Report Series 778. World Health Organization, 1211 Geneva 27, SWITZERLAND, 1989, 75 pp.

### NEWSLETTERS

*ODU Bulletin* - The quarterly bulletin of the Overseas Development Unity of HR Wallingford. HR Wallingford Ltd., Howbery Park, Wallingford, Oxfordshire OX10 8BA, UK. Tel: +44 1491 835381; FAX: +44 1491 832233.

*International Nile Basin Association (INBA) Bulletin.* Available from INBA, 3333 Cavendish Boulevard, Suite #410, Montreal (Quebec) CANADA, H4B 2M5, FAX: +1 (514) 484-5298; E-mail address: HYDROSULT1@P1.APFNET.ORG.

*Resources Policy,* Available from Centre for Water Policy Research, University of New England, Armidale 2351, NSW, AUSTRALIA, Tel: (61) 67 73 2420; FAX: (61) 67 73 3237; E-mail: cwpr@unc.edu.au.

*GEMS (Global Environment Monitoring System) Water Quality Newsletter,* Available from the National Water Research Institute (NWRI) of Environment Canada. UNEP, GEMS, PAC, P. O. Box 30552, Nairobi, KENYA.

## MEMBER NEWS

Dr. Nathan Buras of the University of Arizona's Department of Hydrology and Water Resources (USA) received the Education and Public Service Award from the University Council on Water Resources at its annual meeting in Big Sky, Montana.

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As of 1 February 1995, Leonard Taylor, U.K., has been appointed a member of the National Board of the National Rivers Authority of Great Britain, representing the Welsh Region. The appointment extends through April 1996, at which time the NRA will be subsumed in a new Environmental Agency for England and Wales.

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Aaron Blomeley has been working for the past three years for the Baha'i Office of the Environment for Taiwan (BOET), conveying to educators the importance of soil and water. He has recently relocated to Long Jetty, NSW Australia.

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Condolences are expressed to the family of Mr. M.K. Rao, Director of the Central Board of Irrigation & Power, India on his sudden death on 25 February 1995.

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John Pigram of the Center for Water Policy Research, University of New England, Australia, is traveling in the United States from 20 June-10 July.

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Prof. Ben Yen has taken a sabbatical from duties at the University of Illinois and is traveling to Sweden with stops in Europe, Taiwan and Singapore.

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Prof. Evan Vlachos is on sabbatical from Colorado State University and will be engaged in studies with NATO and UNESCO in Europe during the coming year.

\*\*\*\*

Hans Bandler of Australia has published reports on the VIIIth IWRA World Water Congress, held last November, in the Australian publication *Water and the Environment*. Bandler presented a paper at the Cairo conference on prehistoric history of water resources applications dating back 5,300 years.

## UPDATE ON CONFERENCES

### ENVIRONMENTAL MANAGEMENT OF WATER RESOURCES & POWER PROJECTS

The Central Board of Irrigation and Power of New Delhi, India is organizing a seminar on "Environmental Management of Water Resources & Power Projects," to be held 6-8 September 1995.

Objectives of the seminar are to provide an overview of environmental issues relating to development and operation of water resources projects; to describe and demonstrate successful environmental enhancement and mitigation features for new and existing water resources and power projects; and to examine environmental protection regulations in the country and discuss the role of various agencies to ensure compliance.

Topics scheduled to be covered include such themes as Environment and Water Resources Development - An Overview, Forest and Wild Life Conservation, Compensatory Afforestation, Regulation and Legislation, and Environmental Impact and Power Plant Siting - Thermal Nuclear, etc.

For further information, please contact:

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INDIA

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E-Mail: cbip@cbipdel.uunet.in

### TECHNIQUES OF HYDROLOGIC INVESTIGATIONS FOR INTERNATIONAL PARTICIPANTS

The U.S. Geological Survey (USGS) is pleased to announce the 1995 course, "Techniques of Hydrologic Investigations for International Participants," to be held from 24 July-1 September 1995. The course will be held in Colorado Springs, CO from 24-30 July and at the USGS National Draining Center, Denver, CO from 31 July to 1 September.

The course is designed specifically for foreign scientists, but all instruction will be in English.

For further details, please contact:

U.S. Geological Survey  
International Water Resources Program  
436 National Center  
Reston, VA 22092 USA  
FAX: 703-648-6687;  
Internet: alenox@qvarsa.cr.usgs.gov.

### NEW TECHNOLOGIES IN SURFACE HYDROLOGY

The ORSTOM Laboratory of Hydrology will sponsor a six-week training session in Complementary Training in Hydrology in October 1995. The course is designed for engineers and technicians who deal with hydrological projects or are in charge of the management of hydrological networks. It is focused on the specific topics that correspond to the evolution of hydrology in data acquisition and data processing.

For further information, please contact:

Mr. B. Thebe  
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ORSTOM BP 5045  
34032 Montpellier Cedex 01  
FRANCE  
Tel: 67.6175.45; FAX: 67.41.18.16

### THE EFFECTIVE IRRIGATION MANAGER

The Institute of Irrigation Studies and H R. Wallingford, in cooperation with the University of Southampton will offer an intensive three-week course. "The Effective Irrigation Manager" will be offered from 2-20 October 1995 for professionals who are responsible for and capable of making a difference to the management and performance of irrigation and related water resources schemes in developing countries.

For further details on the course, including funding opportunities, please contact:

Institute of Irrigation Studies  
The University  
Southampton SO 17 1BJ  
UNITED KINGDOM  
Tel: +44 1703 593728; FAX: +44 1703 677519

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### SHORT TERM COURSES OFFERED

The University of Malta, in partnership with the University of Munich, University College London and the Ben-Gurion University of the Negev, are organizing a joint program investigating the special needs of the arid and semiarid terrains within the Mediterranean Region.

Short, intensive teaching courses for postgraduate students, as well as planners and decision makers, are offered. Successful participants in the courses will be eligible to apply for temporary attachments at renowned research centers in the Region and in Europe. Courses are offered in spring and fall; sponsorship is available.

For further information, please contact:

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## WORLD WATER DAY

UNESCO has marked 22 March as World Water Day, a day to call international attention to the importance of water in its many uses.

This year the day was celebrated in many countries. A four-day celebration, with public awareness programs on *Water & Technology*, *Water & Administration*, *Water & Health*, *Woman & Water* and *Water & Disasters* was held in four cities in Italy. The IWRA National Chinese Committee distributed tie pins marking the occasion. CIDA (Canada) celebrated the day with the preparation of a pamphlet titled "*Water: Global Needs for the 21st Century*," drawing attention to the lack of access to proper water and sanitation among the rural poor, despite the fact that 1.3 billion people have been provided with clean water in the last decade. Oman published special newspaper articles on water conservation.

What is your national committee doing to bring attention to the need for clean water for everyone? How can you help? What can you do to celebrate World Water Day on 22 March 1996?



## USGS CELEBRATES 100TH ANNIVERSARY

1995 marks the 100th year of cooperative water resources investigations between the U.S. Geological Survey and state and local governments. The cooperative effort has provided the United States with an infrastructure of water data collection stations that contribute to various objectives.

A small Kansas program born in 1895 to measure the water flow of six rivers grew into the nation's largest cooperative effort to measure water resources. Now the agency monitors surface water and ground water quantity and quality at more than 40,000 sites.

Federal-state cooperative information has led to better operation of reservoir systems for water supply, flood control and hydroelectric power; development of new water supplies; flood forecasting and warning; floodplain management programs; addressing inter- and intra-state water rights; and determination of the effect of agricultural chemicals, urban storm water runoff and solid wastes on water quality.

The importance of continuity of data collection is evident in the successful growth of the Survey, as it is for any data collection agency. The United Kingdom uses volunteers to collect rainfall data for the Queen. Long term records have been kept in India and China. The United States was once a developing nation, and had to learn to keep long term records. Today's developing nations would do well to consider doing the same.

"The well was dry beside the door,  
And so we went with pail and can  
Across the fields behind the house  
To seek the brook if still it ran."

*from Going for Water by Robert Frost*

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Please remit promptly any unpaid 1995 dues to the Urbana office so all records may be transferred to the new IWRA office in New Mexico. Many thanks!

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