SPECIAL EDITION XIVTH IWRA WORLD WATER CONGRESS AND 40TH ANNIVERSARY



IWRA Update Newsletter of International Water Resources Association

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LETTER FROM THE WORLD WATER CONGRESS ORGANISERS TO PARTICIPANTS AND CONTRIBUTORS



IWRA



Prof. Christopher Scott

Chair Congress ISC



Prof. Jun Xia President IWRA

Prof. Almir Cirilo Executive Secretary SRHE

It is our distinct pleasure to welcome you to the World Water Congress. Most of you have been planning for a year or more to attend and have made careful preparations. Some have joined the list of participants more recently. And still others will register on the spot. All of you play important roles in making the Congress a success, and we sincerely hope you will make the most of the event, the sessions, the chance to network and meet colleagues – old and new. We are certain you will enjoy the Porto-de -Galinhas venue and world-renowned Brazilian hospitality.

The Congress itself is the product of years of planning. The overarching theme, Adaptive Water Management: Looking to the Future, was decided through a process of consultation by IWRA, the Secretaría de Recursos Hídricos e Energéticos (Pernambuco State Secretariat of Water and Energy Resources), and members of the International Scientific Committee. Selection of Porto de Galinhas, Recife, and Pernambuco state to host the Congress goes back at early 2006. The scientific committee and organizing committee have spent countless hours, days, and months putting together the program, which is organized around four central themes (Adaptive Water Management, Global Change and Water Resources, Governance and Law, and Knowledge Systems) in addition to a special session track. The keynote and plenary speakers come from around the globe and represent, multilateral governmental organizations, national agencies, universities, research institutes, non-governmental organizations, and water supply and sanitation utilities.

Over 500 presenting authors among an estimated total of 900 participants from 50 countries will enrich the discussions, debates, and professional development opportunities.

Via the Congress plenaries, technical sessions, poster stands, exhibition booths, and special side events, participants will gain in-depth exposure to emerging water resources challenges including climate change; population growth, urban expansion and demographic changes; economic development; water quality degradation, and ecosystem water requirements. Each of these alters the way water is managed. Together, they require fundamentally new priorities for technology and infrastructure, management and policy, allocation and pricing, and above all a new future outlook for water resources professionals.

Numerous institutions have a hand in organizing the event, most notably the Universidade Federal de Pernambuco and its Foundation for Development Support (FADE), the International Association for Water Law (AIDA), VERSeau Développement, the University of Arizona, the Portuguese Water Resources Association, the Brazilian Water Resources Association, the International Development Research Centre of Canada, Singapore International Water Week, the International Hydrological Programme of the United Nations Educational, Scientific, and Cultural Organization, and the Congress Secretariat ably managed by Aqua Consultoría.

Our thanks to these and others, and to you as participants! We look forward to a successful and rewarding event.

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XIVTH IWRA WORLD WATER CONGRESS



We are pleased to announce the latest information about the XIVth IWRA World Water Congress.

Over 500 authors will be presenting during the ordinary sessions of the congress.

In addition, seven special sessions will be organised by various international and national institutions.

Over 50 oral sessions and 35 poster sessions,

- organised in four themes, will provide the
- overall structure for the Congress:
- Adaptive water management
- Water resources and global change
- Governance and water law
- Knowledge systems

The Congress will be jointly held with the 10th Symposium on Hydraulics and Water Resources of Portuguese Language Countries (SILUSBA), which will bring an additional 200 presentations.

For more information about this symposium, please visit the official SILUSBA website at:

http://www.silusba.org

For details on the final programme, please follow this link: http://www.worldwatercongress.com/en/ programme.html

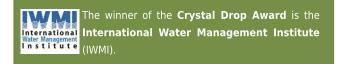
The proceedings of the Congress will be available on the IWRA website in the upcoming months.

IWRA BOARD MEETING

IWRA Executive Board will hold a meeting on 27 September during the IWRA World Water Congress.

ANNOUNCEMENT AWARDS WINNERS

We are pleased to announce the recipients of the IWRA Awards of the XIVth World Water Congress. IWRA extends our congratulations to our esteemed colleagues.





The winner of the **Ven Te Chow Memorial Award** is **Peter H. Gleick**. He will deliver his lecture on 28 September, 18:00-18:35 at the Amália Rodrigues Auditorium.



The winners of the 2010 Best Paper Award are James C. Bathurst, Jaime Amezaga, Felipe Cisneros, Marcelo Gaviño Novillo, Andrés Iroumé, Mario A. Lenzi, Juan Mintegui Aguirre, Miriam Miranda and Adriana Urciuolo for their article entitled: "Forests and floods in Latin America: science, management, policy and the EPIC FORCE project" published in *Water International*, Volume 35, Issue 2.



The winners of the 2009 Best Paper Award are Simon E. Cook, Myles J. Fisher, Meike S. Andersson, Jorge Rubiano and Mark Giordano for their

article entitled: "Water, food and livelihoods in river basins" published in *Water international*, Volume 34, Issue 1.



The winner of the **2008 Best Paper Award** is **Neil S. Grigg** for their article entitled: "Integrated water resources management: balancing views and improving practice" published in *Water international*, Volume 33, Issue 3.

The awards ceremony will take place on Wednesday 28 September, from 20:00 at the Ariano Suassuna Auditorium.

IWRA GENERAL ASSEMBLY

The IWRA General Assembly will be organised during the Congress on 28 September from 18:35 to 19:30.

This session will be moderated by James E. Nickum and IWRA General Secretary and is open to all (members and non-members alike).

The assembly will begin with the presentation of IWRA's history to celebrate the IWRA 40th anniversary. Then, the IWRA Executive Director, Tom Soo, will present IWRA activities during the period 2008-2011 and IWRA President, Jun Xia, will present the future vision for the association.

A general question and answer session will conclude the General Assembly.

IWRA BOOTH AT THE CONGRESS

Please note that IWRA will have a permanent presence with a booth at the technical exhibition.

Several IWRA members will be available at the booth dur-

ing coffee breaks. We look forward to seeing members and the general public for discussions and to find out more information about the association.

ANNOUNCEMENT XVth IWRA WORLD WATER CONGRESS ORGANISER



IWRA is pleased to announce the host for the XVth World Water Congress in 2014 will be the University of

Granada, in Granada, Spain.

IWRA HISTORY 1971-2011

This year, IWRA is celebrating its 40th Anniversary. This World Water Congress will celebrate it with a presentation of IWRA's history during the General Assembly and a toast during the Gala Dinner.

We are pleased to present in this newsletter a short summary of IWRA's key dates and milestones in the long history of the association.

The idea to create the IWRA was initiated in the 1960's during the national conferences of the American Water Resources Association (AWRA). Various members of AWRA and other related technical organisations related to water perceived the growing need to create a multidisciplinary Water Resources Association at an international level.

IWRA was established by Sandor Csallany, Gabor M. Karadi and Herbert C. Preul and legally incorporated in the State of Wisconsin (USA) on 29 November 1971¹.



Ven Te Chow², a well-known Profesor of Hydraulic Enginnering at the University of Illinois (USA), was invited to be nominated for President of this organisation and was elected President from 1972 to 1979.

In 1972, the Board approved its premier members: 195 individual, 2 corporate and 5 institutional members. The US National Committee was also formed and other many geographical committees have since been formed.

The First World Water Congress was held in Chicago (USA) on 24-28 September 1973. This event was the major launching of the IWRA and the main theme was: "Importance and Problems of Water in the Human Environment in Modern Times". This international scale event brings participants from over 62 countries and opened these main following conclusions:

- The need to develop a significant new international and interdisciplinary approach on water resources.

- Many common problems exist among nations and water users which can best be solved though a cooperative and coordinated approach.

Water International was published as a Journal for the first time on July 1975 (*Water International* was the newsletter of the association previously), with Prof. Ven Te Chow as its first Editor-in-Chief.

The Second World Water Congress was held on 12 - 16 December 1975 in New Delhi, India. The main theme was "Water for Human Needs". More than 1200 participants from 45 countries and Indian Prime Minister, Indira Gandhi opened the Congress.

The Crystal Drop Award began to be given during the Fifth World Water Congress on 9 - 15 June 1985 in Brussels (Belgium). The first recipient was UNESCO.

REFERENCES:

I: Herbert C. Preul (1994): The Founding and Early History of IWRA, Water International, 19:2, 86-94.

^{2:} Ven Te Chow (1975): A Modest Beginning, Water International, 1:1, 1-1. About Ven Te Chow biography consult the book: Memorial Tributes: National Academy of Engineering, Volume 2 (1984), National Academy of Engineering (NAE), page 46-50. This book is in free access following this link: http://www.nap.edu/openbook.php?re-cord_id=565&page=46

(Cont.) IWRA HISTORY 1971-2011

The Ven Te Chow Memorial Lecture and Award began with contributions to the Chow Fund during the Sixth World Water Congress, organised in Ottawa (Canada) on 29 May -3 June 1988. IWRA has established a Chow Memorial Lecture programme to honour its first President, as well as provide for an outstanding lecture at its Congresses. The first recipient was Vujica M. Yevjevich.

During the Eighth World Water Congress in Cairo, Egypt, a special session was organised which resulted in a resolution (Cairo Statement³) to create the World Water Council and a



From left to right: Safwat Abdel-Dayem, Mahmoud Abu-Zeid, Asit Biswas, Glenn Stout and Aly Shady during the Award Ceremony of the Cairo World Water Congress in 1994. Photo kindly supplied by Asit K. Biswas

committee, led by IWRA President Abu-Zeid⁴ to accomplish the preparatory work for this task. Consensus was established around the need for the creation of a common umbrella organisation to unite the disparate, fragmented, and ineffectual efforts in global water management.

During its history, the IWRA Executive Office was first hosted in Falls Church, Virginia (USA) from 1972-1976, then in Washington (USA) from 1976-1984, by the University of Illinois in Urbana, Champaign (USA) from 1984-1995, by the University of New Mexico (USA) from 1995-1998, by the Southern Illinois University in Carbondale (USA) from 1998-2006, by the Mc Gill University in Montreal (Canada) from 2006-2007, by the Water Institute of South Africa (WISA) in Midrand (South Africa) from 2007-2010 and finally and currently by the Association VERSeau Développement in Montpellier (France) since April 2010.



From left to right, Ben Dziegielewski, Monica Porto, Ben Braga, Luis García, Lilian Laborde, Cecilia Tortajada, Asit Biswas, Kaya Yasinok during the IWRA workshop on Water Policies and Institutions in Latin America, Salvador, Brazil, 2000. Photo kindly supplied by Asit K. Biswas



From left to right: Rui Vieira, James E. Nickum, Shi Guoqing, Viktor Dukhovny, Pierre Chevallier, Anastasia Ivannikova, Jun Xia, Ben Dziegielewski, Tom Soo, Giuseppe Rossi, Gabriel Eckstein. IWRA Executive Board Meeting participants in front of the IWRA Executive Office in Montpellier, France, 5 June 2010.

IWRA PRESIDENT	DATE	
Ven Te Chow	1972-1979	
Guillermo J. Cano	1980-1982	
Jean-Pierre Garbe	1983-1985	
Peter J. Reynolds	1986-1988	
Asit K. Biswas	1989-1991	
Mahmoud Abu-Zeid	1992-1994	
Glenn E. Stout	1995-1997	
Benedito P. F. Braga Jr.	1998-2000	
John J. Pigram	2001-2003	
Aly M. Shady	2004-2006	
Cecilia Tortajada	2007-2009	
Jun Xia	2010-2012	

REFERENCES:

4: Mahmoud Abu-Zeid, Aly M. Shady & René Coulomb (1998): The World Water Council in Three Years-1994-1997, Water International, 23:2, 97-106.

^{3:} The 1994 IWRA Cairo Statement on International Water Resources, Water International, 20:1, 39-39.

PREVIOUS WORLD CONGRESSES

1ST WORLD WATER CONGRESS Venue: Chicago, Illinois, U.S.A. Date: 24 – 28 September, 1973 Theme: Importance and Problems of Water in the Human Environment in Modern Times.

IIND WORLD WATER CONGRESS Venue: New Delhi, India Date: 12 – 16 December, 1975 Theme: Water for Human Needs.

IIIRD WORLD WATER CONGRESS Venue: Mexico City, Mexico. Date: 23 April, 1979 Theme: Water for Human Survival.

IVTH WORLD WATER CONGRESS Venue: Buenos Aires, Argentina Date: 5 – 9 September, 1982 Theme: Water for Human Consumption: Man and his Environment.

VTH WORLD WATER CONGRESS Venue: Brussels, Belgium Date: 9 – 15 June, 1985 Theme: Water Resources for Rural Areas and their Communities.

VITH WORLD WATER CONGRESS Venue: Ottawa, Canada Date: 29 May – 3 June, 1988 Theme: Water for World Development.

VIITH WORLD WATER CONGRESS Venue: Rabat, Morocco Date: 13 – 18 May, 1991 Theme: Water for Sustainable Development in the 21st Century.

VIIITH WORLD WATER CONGRESS Venue: Cairo, Egypt Date: 13 – 18 May, 1994 Theme: Satisfying Future National and Global Water Demands.

IXTH WORLD WATER CONGRESS Venue: Montreal, Canada Date: 1 – 6 September, 1997 Theme: Water Resources Outlook for the 21st Century: Conflicts and Opportunities.

XTH WORLD WATER CONGRESS Venue: Melbourne, Australia Date: 12 – 16 Mars, 2000 Theme: Sharing and Caring for Water.

XITH WORLD WATER CONGRESS Venue: Madrid, Spain Date: 5 – 9 October, 2003 Theme: Water Resources Management in the 21st Century.

XII™ WORLD WATER CONGRESS Venue: New Delhi, India Date: 22-25 November, 2005 Theme: Water for Sustainable Development, Towards Innovative Solutions.

XIIITH WORLD WATER CONGRESS Venue: Montpellier, France Date: I-4 September 2008 Theme: Global Changes and Water Resources

LATEST ACTIVITIES

6th International Symposium of the European Water Resources Association (EWRA) 29 June - 2 July 2011.

Catania, Italy

The symposium has gathered almost 100 scientists and practitioners from 20 countries, providing a forum of discussion about different topics related to hydrologic extremes, climate change assessment, irrigation, water supply and distribution systems, water quality management and status of implementation of EU Water Framework Directives.

The event has been organized by Prof. Giuseppe Rossi (University of Catania) Vice-President of IWRA, Prof. Antonino Cancelliere (University of Catania) IWRA member and Prof.

George Tsakiris (National Technical University of Athens, Greece) President of EWRA. Selected papers from the proceedings will be published in special issues of EWRA journals Water Resources Management, European Water and Water Utility Journal.



al IWP-IWRA workshop during the 2011 Singapore Water Week

The Third Global Water Policy Dialogue of the Institute of Water Policy, Lee Kuan Yew School of Public Policy, on "Governance in Urban Water Quality and Water Disasters: A Focus on Asia" was organized at the Lee Kuan Yew School of Public Policy, National University of Singapore, on 6 July 2011. It was organized within the framework of the Singapore International Water Week and in collaboration with the International Water Resources Association (IWRA) and the Japan International Cooperation Agency (JICA).

The objective of the Policy Forum was to analyse the main policies and governance practices regarding urban water quality and to take a closer look at the effect of disasters in different countries in Asia. The discussions provided a framework for exchange of knowledge and experiences, assessed the present state-of-the-art and also looked towards the future in terms of possible alternatives and challenges. Both theoretical and practical approaches were addressed.

The report of the conference will be published in the Volume 36, Issue 6 of *Water International* (October 2011).



World Water Week

WEEK IWRA co-convened a session entitled "Which Water Quality for Which Uses ? A regulators' and practioners' perspective" with the FAO, AFEID/ICID, ASTEE, UNESCO, UNEP and WHO.



World Water Week. Which Water Quality for Which Uses ? A regulators' and practioners' perspective @ IWRA.

The urbanisation of river basins and the increasing scarcity of good quality resources demands balance between the management of water supply and demand; and requires more clarity on the different water qualities needed for the various uses. The session brought together experts to present and discuss the current status of water quality guidelines for various uses ranging from health, leisure, agriculture to ecosystems. The session also served as an input for IWRA's participation at the upcoming 6th World Water Forum on the topic of water quality and quantity guidelines.

Details on latest activities under the "Events/Other events" tab on the IWRA Website.



UPCOMING EVENTS

The 6th China International Water Business Summit 13 to 14 October 2011 - Beijing, China

This event is co-organised by the Department of Water Resources Management of the Ministry of Water Resources of the People's Republic of China and Chinese Hydraulic Engineering Society, with the support of many international and local authoritative institutions. The purpose of the event is to assess the past while looking into the opportunities arising from market insights, Private Public Partnership project practice, financing & investment and technological innovation in waste water treatment, desalination, and water reuse.

IWRA is an endorser of this event. As such, IWRA members have a 10% discount off the listed registration fee.

Hydro2011 17 to 19 October 2011 Prague, Czech Republic

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The main theme is "Practical Solutions for a Sustainable Future".

http://www.hydropower-dams.com/hydro-2011.php?c_id=88

International Symposium on Impacts of Climate Change on Water Resources in Arid and Semi-arid Regions 21 to 23 October 2011 -Xi'an, China

This event is organised by IWRA, Xi'an University of Technology, Northwest Agriculture and Forestry University and Changan University and sponsored by IWRA, Global Water System Project (GWSP), Asia Scientific Network Of fice for GWSP (ANSO-GWSP), Chinese National Committee for Global Water System Plan (CNC-GWSP), Chinese National Committee for IHP of PUB (IHP-PUB).

A special price is available for IWRA members (300USD instead of 350USD).

For more information, please consult the website: http://www.xaut.edu.cn/IWRA2011.htm

Or contact: Prof. Bing Shen, Prof. Huai-en Li and Prof. Wan Luo at: IWRA2011@sina.com.cn

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The Second Arab Water Forum 20 to 23 November 2011 Cairo, Egypt

This forum is a triennial event organised by the Arab

Water Council.

For more information, please consult the official event website at: http://www.arabwatercouncil.org/AWC_Events_Details.php?id=



6TH WORLD WATER FORUM, MARSEILLE 2012

IWRA is responsible for two of the World Water Forum targets:

2.1.3 By 2015 establish a worldwide recognised frame of reference related to the quantity and the quality required for different uses, through joint work between international professional associations representing all usages of water and scientists.

Coordinated by: Executive Director, Tom SOO

2.1.7 By 2015, IWRM authorities, jointly with water service professionals will identify reliable methods and provide recommendations on appropriate equipment for accounting/ measurement of withdrawn water resources as well as produced, distributed, consumptive use and return flow water volumes. As part of this process International Organizations will develop recommendations regarding which water related information should be retained or shared.

Coordinated by: President, Jun XIA

Work on both of these targets will culminate in 2 hour sessions to be held during the Forum. As the catch-cry of the event is the "Forum of Solutions", IWRA is accordingly in the process of developing action plans, mobilising partners and identifying solutions in order to be able to deliver on each of the above targets. If you would like to contribute, please contact the IWRA Executive Office (office@iwra.org).

For more information about the forum, please visit the official website:

www.worldwaterforum6.org



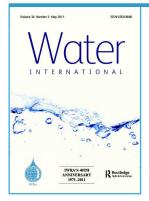
Mr. Avinash Tyagi,

new Executive Secretary of the ICID

Mr. Avinash. C. Tyagi has been designated as new Executive Secretary of the International Commission on Irrigation and Drainage (ICID). He is presently the Director of the Climate and Water Department of the

World Meteorological Organisation. Mr. Tyagi is part of the Scientific Committee of the XIVth IWRA World Water Congress and was an IWRA member.

PUBLICATIONS



WATER INTERNATIONAL, VOLUME 36, ISSUE 4 (July 2011)

Special issue with the International Water Management Institute (IWMI) on Wastewater Reuse in Agriculture: Economics, Risks and Opportunities.

List of articles:

- Meeting the challenge of wastewater irrigation: economics, finance, business opportunities and methodological constraints - *Dennis Wichelns & Pay Drechsel* (this article is in free access for non-members)

- Towards an agenda for improving wastewater use in agriculture -Susanne M. Scheierling, Carl R. Bartone, D. Duncan Mara & Pay Drechsel

- Assessing the empirical challenges of evaluating the benefits and risks of irrigating with wastewater - *A.B. Weldesilassie, P. Amerasinghe & G. Danso*

- Evaluating the costs and benefits of water reuse and exchange projects involving cities and farmers - *Ingo Heinz, Miquel Salgot* & Javier Mateo-Sagasta Dávila

- Developing country farmers need more than financial incentives to reduce the risks of wastewater irrigation - *Dennis Wichelns, Marwan Owaygen & Mark Redwood*

- Motivating behaviour change to reduce pathogenic risk where unsafe water is used for irrigation - *Hanna Karg & Pay Drechsel*

- Evolving policies and the roles of public and private stakeholders in wastewater and faecal-sludge management in India, China and Ghana - *Ashley Murray, Gayathri Devi Mekala & Xia Chen* (this article is in free access for non-members)

- Efficiency indicators for waste-based business models: fostering private-sector participation in wastewater and faecal-sludge management - *Ashley Murray, Olufunke Cofie & Pay Drechsel*

- Fighting for the right to use wastewater: what drives the use of untreated wastewater in a peri-urban village of Faisalabad, Pakistan? - *Philipp Weckenbrock, Alexandra Evans, Muhammad Qaiser Majeed, Waqas Ahmad, Nasir Bashir & Axel Drescher*

- Cost-effectiveness of options for reducing health risks in areas where food crops are irrigated with treated or untreated wastewater - *Pay Drechsel & Razak Seidu*

WATER INTERNATIONAL,

VOLUME 36, ISSUE 5 (September 2011)

A special issue in cooperation with UNESCO-IHP on Strengthening Cooperation on Transboundary Groundwater Resources. The guest editor is Gabriel Eckstein (IWRA Treasurer).

- Strengthening cooperation on transboundary groundwater resources - *Alice Aureli and Gabriel Eckstein*

- Codification of the Law of Transboundary Aquifers Groundwaters) by the United Nations - *Chusei Yamada* (this article is in free access for non-members)

- The International Law Commission's flawed Draft Articles on the Law of Transboundary Aquifers: the way forward - *Stephen C. McCaffrey*

- Managing buried treasure across frontiers: the international Law of Transboundary Aquifers - *Gabriel E. Eckstein* (this article is in free access for non-members)

- The customary law applicable to internationally shared groundwater - *Joseph W. Dellapenna*

- The World Bank policy and practice for projects affecting shared aquifers - *Salman M.A. Salman*

- Governance of transboundary aquifers: new challenges and new opportunities - *Jamie Linton and David B. Brooks*

- Unitization: a lesson in collective action from the oil industry for aquifer governance - *W. Todd Jarvis*

- Interpreting the unknown: uncertainty and the management of transboundary groundwater - *Anita Milman and Isha Ray*

- The Agreement on the Guarani Aquifer: a new paradigm for transboundary groundwater management? - *Pilar Carolina Villar and Wagner Costa Ribeiro*

- Keeping it legal: transboundary management challenges facing Brazil and the Guarani - *David N. Cassuto and Romulo S.R. Sampaio*

- Sustainable transboundary groundwater management under shifting political scenarios: the Ceylanpinar Aquifer and Turkey–Syria relations - *Mehmet Öztan and Mark Axelrod*

- Transboundary groundwater law in Europe: a look at an evolving multi-level regime - *Götz Reichert*

PUBLICATIONS BY IWRA MEMBERS

Jennifer McKay (member of Executive Board, 2007-09) "Evidentiary Issues with the Implementation of the Sustainability Duty of Care in the Basin Plan". This is a chapter from the book *Basin Fu* *tures: Water reform in the Murray-Darling Basin*, edited by Daniel Connell and R.Quentin Grafton. ANU E Press, 2011.

You can download this article at: http://epress.anu.edu. au/basin_futures/pdf/ch13.pdf

Special Issue of the International Journal of Water Resources Development on Transboundary Water Management in Latin America The September special issue of the International Journal of Water Resources Development is also on transboundary water management, with a focus on the Americas and both surface and groundwater. The articles are based on papers presented at an invitation-only workshop

OBITUARY GLENN STOUT [1920-2011]



Glenn E. Stout, President of IWRA from 1995-1997 and Executive Director of IWRA from 1987-1994, passed away on 27 June 2011.

by Asit K. Biswas Dr. Stout began his academic career in 1942 as Instructor at the University of Chicago and served as aerologist in U.S. Naval Reserves during the war and as weather instructor at Chanute Air Field in Illinois between 1946-1947. In 1947, Dr. Stout assumed a position of Engineer at the Illinois State Water Survey and was appointed Head of the Atmospheric Science Section in 1952 and Assistant to the Chief in 1971, after previously holding a two year post of Scientific Coordinator for the U.S. National Science Foundation in Washington, D.C. Since 1973, he served as Director of Water Resources Research Centre and Professor at the Institute for Environmental Studies at the University of Illinois. Dr. Glenn Stout is recognised by many water professionals as a pioneer in research on precipitation management through cloud seeding. He authored several seminal papers on cloud seeding techniques and developed radar-based methods for tracking thunderstorm clouds during field experiments.

Dr. Stout dedicated more than 25 years of his career to the betterment of IWRA, while continuing his professional activities as a researcher and administrator in the area of water resources at the University of Illinois at Urbana-Champaign. Dr. Stout made a pivotal contribution to development of IWRA by serving as an officer for 20 years. He began his service as President of the U.S. National Committee of IWRA from 1980 to 1983 and was elected IWRA Fellow in 1981. Between 1982 and 1986 he was elected as

at Campo Grande, Brazil, organized in November 2009 by the Third World Centre for Water Management in Mexico (http://www.thirdworldcentre.org), and the Instituto Pró-Ambiente (IPA) and the Itaipu Binacional Commission in Brazil. The following topics and basins were discussed in-depth during the workshop: global experiences and lessons for the Americas; governance of transboundary aquifers; the Guarani Aquifer; the Amazon, La Plata, Silala/Siloli and Pilcomayo river basins; the U.S.– Mexico Border; and trans-boundaries water management in Venezuela. Following the discussions, the papers were finalized by the authors. This Journal is edited by past IWRA Presidents, Asit K. Biswas and Cecilia Tortajada

Chairman of the Publications Committee and served as Editor-in-Chief of *Water International*. In 1987, Dr. Stout was appointed Executive Director of IWRA and held this post until 1994 when he was elected IWRA President.

Dr. Stout was no stranger to the international water resources scene. Throughout his many years of service, Dr. Stout was able to personally get to know IWRA members from many countries and worked diligently in recruiting new members. He travelled to many international meetings on water resources, as an ambassador for IWRA. He also utilised his personal contacts with IWRA members to promote cooperation on water resources. His work toward advancing peace in the Middle East through resolving water resources issues included the International Symposium on Water Resources in the Middle East held in Urbana, Illinois in 1993. The symposium brought together key water policy stakeholders from different countries in the region that would otherwise refuse to meet and discuss their concerns over the allocation of water resources. Together with Herbert Preul and Hall Maxwell, he also organized the IWRA 25th Anniversary Conference RIVERTECH '96 highly successful scientific conference on then emerging "river science." He has been co-author of several books and proceedings published by IWRA.

He was recipient of the Ven Te Chow Memorial Award in 1998. In 2000, Dr. Stout was elected Honorary member for his outstanding contributions to the promotion of international water resources understanding and cooperation, his original contributions to research and practice of water resources management, as well as his pivotal contribution to the development of IWRA.

Friends and associates may forward their condolences to: Christine Anne Lloyd at **chrissielloyd@mac.com**

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Support for IWRA Executive Office:

