

Beijing Poster

You will find enclosed accompanying this newsletter a poster advertising our 29th Biennial Congress in China in 2001. We have had this poster specially designed to encourage member and non-members to submit papers and register. We would be grateful if you would hang the poster in a prominent place as information for your colleagues.



We hope you agree that the poster is eye catching and eye pleasing.

On-line Edition of Journal of Water and Maritime Engineering

The on-line edition of the recently relaunched joint ICE/IAHR Journal of Water and Maritime Engineering is now freely accessible for a trial period. The Journal, hitherto published by the British Institution of Civil Engineers, is now through IAHR becoming an internationally-oriented Journal aimed at water engineering practice. Why not take a look? www.t-telford.co.uk/jolnew/ Journal subscribers will in due course be issued with passwords to permit continuing access.

If you would like a sample copy of the

Journal, please contact Jolien Mans at jolien.mans@iahr.org

International workshop in Mozambique

The Japanese Government announced at the World Water Forum that it will organise, with the support of GWP and IAHR, an international workshop in Mozambique later this year aimed at bringing together international expertise in order to assist the Mozambique Government develop a plan for flood management. For more

information please contact Chris George, christopher.george@iahr.org

On a more lighthearted note here are some questions that remain unanswered:

If man evolved from monkeys and apes, why do we still have monkeys and apes? Is there another word for synonym? I know the speed of light but what is the speed of darkness?

Quote of the month

Be nice and smile to everyone you meet. You don't know what they are going through, and they may need that smile. And treasure it. - *Christine M. Huppert*

Michel Leclerc

Chairman, co-founder of the IAHR Ecohydraulics Section



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Michel Leclerc is Professor at Institut National De La Recherche Scientifique (INRS-Eau) located in Québec City (Canada) since 1970. He is a civil engineer graduated from Laval University, Department of civil Engineering (Québec), where he also got a MSc diploma in the field of hydraulics. He achieved his academic training at the Université Technologique de Compiègne (France) in the field of numerical modeling of 3-dimensional lake and river flows using the finite element method.

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Our monthly electronic newsletter "NewsFlash" complements the bi-monthly IAHR Newsletter. "NewsFlash" publishes information which would be outdated if published only in our bi-monthly Newsletter. "NewsFlash" is available free of charge to anyone interested in hydraulics; if you know of anyone who would like to receive it please ask them to forward their e-mail address to us. "NewsFlash" is also available on our homepage: <http://www.iahr.org>

Editor: Cheryl van der Zee
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He has acquired a wide experience of multidisciplinary studies and researches conducted mainly at INRS-Eau and he was involved in many projects related to environmental impacts of fluvial and estuarine flow modifications and development of "environment-friendly" management plans related to hydroelectricity.

More recently, his team simulated the flows related to the very large floods that occurred in the Saguenay region of Quebec in July 1996 with a special concern on the damages in the flood plain and large geomorphologic transformations

such as avulsions. M. Leclerc is also involved in the development of an operational (updated daily) 2-D hydrodynamic model of the St. Lawrence River run on the weather forecast computers of Environment Canada. He is also the initiator of 2-D fish habitat modeling using the finite element method. The team led by him is highly concerned with technology transfer and R/D in a multidisciplinary context. Software development has then become a priority in order to allow biologists, geographers and "non-engineer" specialists to take advantage of user-friendly hydrodynamic modeling tools.

Michel Leclerc was the Chairperson and organiser of Ecohydraulics 2000, the second International Symposium on Habitat Hydraulics, a successful Section's event held in Quebec City, in June 1996. He participated with Bruno Manoha, the former chairman of the Ecohydraulics Section of IAHR, to the launching of the Section at this conference, and later in London in September 1997 (Biennial Congress). He was confirmed Secretary at the San Francisco IAHR 1997 Biennial Congress and Chairman at the Graz Congress in 1999.

Secretary Dr. Ing. Klaus Jorde



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Klaus Jorde was born in 1959 in Ulm. On the Danube River he gained his first experience in applied hydraulics as an active kajaker. Later he studied civil Engineering at the Universities of Stuttgart/Germany and Calgary/Canada. Since 1987 he works as a scientist at the Institute of Hydraulic Engineering in Stuttgart. From his background in hydropower engineering he started a research group on ecological problems in rivers affected by hydropower construction and operation. He received his doctoral degree for his work on instream flow regulations and the simulation model CASIMIR. His activities include further research and development related to the interaction between hydraulics, morphology and habitats. Teaching activities include weirs, hydropower plants

and river engineering as well as applied river system ecology. He is also a member of the steering committee of the „International Aquatic Modeling Group“ IAMG which co-operates with the IAHR section on Ecohydraulics in the field of habitat modeling.

Despite a severe mountaineering accident in Tien Shan in 1992 and lasting injuries due to frostbite, Klaus loves skiing, bicycling and kajaking. He is also presently restoring his own (small) hydropower plant which serves as a pilot project for sustainable hydropower use.

Introducing: Chairman of the new European (regional) Division

Prof. Jean Jacques Peters
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Jacky Peters started his professional career in 1964 as project engineer at the

Belgian national Borgerhout Hydraulic Laboratory where he set up the new sediment department. Besides other assignments, he conducted sediment and morphological studies on the Scheldt Estuary (1964-1978) and on the inner delta of the Congo River (1968-1990), both in relation with siltation and maintenance of navigation channels. His main expertise

covers field surveys and mobile bed scale modelling. In 1978, he was put in charge with the new facilities of the Hydraulic Laboratory in the Walloon region. Asked regularly for consultancy abroad in projects, he developed specific expertise in hydraulics in developing countries, first in Africa, then in Latin-America.

In 1991, Jacky Peters decided to quit the Ministry and to work as an independent consultant, mainly as an adviser or a supervisor of large hydraulic projects, also for design of hydraulic structures. The main projects he participated in are the River Survey Project(1991-1999) and the Gorai River Restoration Project (1998-2000) in Bangladesh, several projects in Bolivia on the Pirai River (1988-2000), on the Ichilo-Mamoré Rivers (1994-2000), on the Titicaca Lake Catchment (1994-1995). Besides these, he participated in setting up Master Plans for maritime and inland navigation in Congo and Bolivia. He intervened in expert discussion groups on estuary or river projects in Bangladesh, France, The Netherlands and Belgium. Because of his expertise in sediment

gauging, he was asked to help in the reorganisation of the sediment measurement networks in India (1997-1998) and Mexico (1998-2000). Jacky Peters started in 1967 an academic career at the Free University of Brussels (ULB, French). A part-time professor at the VUB (Flemish Free University of Brussels) since 1990, he teaches open channel hydraulics, maritime and fluvial hydraulics, hydraulic structures at the Faculty of Applied Sciences. He also teaches hydrography at the Catholic University of Louvain (UCL, French) and contributes in postgraduate programmes in water resources engineering (IUPWARE, English) and in marine ecology (ECOMAMA, English).

Active in IAHR since about twenty years, he was awarded the 1994 IAHR-UNESCO lectureship (Bandung, course on Hydraulic Structures in Tropical Rivers). He contributed to the activities of the Section on Hydraulic Instrumentation (past-chairman) and Fluvial Hydraulics.

In his new position of Chairman of the European Division, with the Vice-Chairman Dr. Jean Cunge, cooperation with other international organisations (PIANC, EGS) was initiated and efforts are made to improve the visibility of IAHR in Europe.

Jacky Peters lives in the very heart of Brussels, when he is not abroad.

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Latest News on the 29th Biennial Congress

"When you're prepared, you're more confident. When you have a strategy, you're more comfortable." -
Fred Couples page 33

Introducing: European Division Chairman Ecohydraulics Chairman and Secretary

"The man who rolls up his sleeves seldom loses his shirt" -
Thomas Cowan page 33

Report on Stuttgart Student Chapter

"The miracle, or the power, that elevates the few is to be found in their industry, application, and perseverance under the prompting of a brave, determined spirit." -
Mark Twain page 33

Report from Fluid Phenomena in Energy Exchanges

"There is only one way to succeed in anything, and that is to give it everything" -
Vince Lombardi page 34

Latest News and a Report from IAHR-EGW

"When you've got something to prove, there's nothing greater than a challenge" -
Terry Bradshaw page 34

Report Report on IMUG 2000

Hide not your talents, they for use were made; what's a sundial in the shade? -
Benjamin Franklin page 34

Report from World Water Vision

"Singleness of purpose is one of the chief essentials for success in life, no matter what may be one's aim." -
John D. Rockefeller page 34

Roll of Honour

"Never let a day pass that you will have cause to say, 'I will do better tomorrow.'" -
Brigham Young page 35

Droplets

"Nothing is too small to know, and nothing too big to attempt." -
William Van Horne page 36

Just Published

"Always read stuff that will make you look good if you die in the middle of it." -
P. J. O'Rourke page 37

Sightseeing

"A wise man will make more opportunities than he finds." -
Francis Bacon page 39

Job announcements

"When in doubt, mumble; when in trouble, delegate; when in charge, ponder. - James H. Boren page 39

Latest Events

"It is better to debate a question without settling it than to settle a question without debating it" -
Joseph Joubert page 41

Abstracts of papers in JHR Volume 38 (2000) Issue 4

"Well done is better than well said." -
Benjamin Franklin page 42

News from the European Engineering Graduate School Environment Water (IAHR-EGW)

Visit the new website: <http://www.iws.uni-stuttgart.de/IAHR/>

IAHR-EGW COURSES - 2000

Hydropower Engineering

July 3-7, 2000

National Technical University of Athens,
Greece

Contact: Prof. E.C. Kalkani

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and Maritime Engineering

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Dam Safety Environment and Risk Management

July 3-14, 2000

Technical University of Lisboa, Portugal

Contact: Prof. A. Betâmio de Almeida

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Risk Based Remediation of Contaminated Sites

Summer 2000

University of Calabria, Italy

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Modelling Flow and Contaminant

Transport in the Subsurface

Including Modelling of Preferential Flow in
the Unsaturated Zone

October 2-6, 2000

Czech Technical University, Czech Republic

Contact: Dr. Milena Cislrova, Dr. Tomas

IAHR-EGW

Introduction
Topics
Contact

Courses
Courses 2001
Courses 2000
Courses 1999

Organization
Steering Group
Membership
List of Members
Meetings

Update: 19.08.00

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www.iws.uni-stuttgart.de/IAHR/

Welcome to the IAHR-EGW Homepage

IAHR-EGW Activity

The European Engineering Graduate School Environment Water (EGW) former "European Graduate School of Hydraulics (EGH)" of IAHR (International Association for Hydraulic Research) is a network of several European institutions offering courses at a high academic level on hydraulics and related fields. The courses are directed to graduate students, post-graduates and professionals. For academic recognition a common credit system and an appropriate quality control is introduced.

Basic idea

Water is indispensable for life and for the development of our societies and has become a coveted economic good, whose management will be one of the main problems of the 21st century. Water related problems such as water shortages, floods and water pollution are not limited to specific regions or countries, the development and realisation of sustainable solutions is called for an international scale.

For coping with environment water related problems, an increasing number of well qualified professionals is required. New practices and research results must be transferred into practice immediately. Furthermore, there exist a need for qualified and specialised training of research students oriented at interdisciplinary collaboration and holistic management.

Vogel

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Homepage:

<http://cecwii.fsv.cvut.cz/kurzy/FloTra2000>

IAHR-EGW SUMMER SCHOOLS

River Engineering and Sediment Transport

August 7-25, 2000

The University of Glasgow, Scotland

3 Week Summer School

Week 1: Introductory Courses

Week 2: Advanced Courses

Week 3: Practical Courses

Contact: Prof. D.A. Irvine

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4557

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Hydroinformatics Systems

October, 4-13, 2000

Brandenburg University of Technology at

Cottbus, Germany

2 Week Summer School

Contact: Prof. Dr.-Ing. K.-P. Holz, Dr.-Ing. F.

Molkenthin

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[cottbus.de/EGW/2000/HS](http://www.bauinf.tu-cottbus.de/EGW/2000/HS)

IAHR-EGW Courses 2001

The course programme 2001 will be
published in October 2000.

Report on the Seventh meeting (steering group) in Cardiff, April 2000

The last meeting of the IAHR-EGW steering

group was held on April 7/8, 2000 in Cardiff,

UK organised by Prof. Falconer and headed

by Prof. Kobus. This contribution to the IAHR

Newsletter will give a short summary of this

meeting and the ongoing activities in the

IAHR-EGW.

The steering group of the IAHR-EGW has

been established three years ago on the

base of the available courses and activities

at this starting point of EGW. Gustavo

Perrusquia (Chalmers University, Sweden)

stepped down due to other commitments in

his university. He is succeeded by Jean-Luc

Bertrand-Krajewski (INSA Lyon, France) in

the steering group in the topic of

Environmental Hydraulics. J.-L. Bertrand-

Krajewski will broaden the course content of

the EGW by water quality aspects, e.g. in wastewater treatment management and sewer systems.

Hoerby Lensing took care of the EGW secretariat in the last three years in a commendable way. For the next year the EGW secretariat will be set up by Hoerby Lensing, Stuttgart and Frank Molkenhain, Cottbus in a close co-operation.

On the meeting it was agreed to review carefully the composition of the five EGW topics and the steering group after this first three years period of the EGW activity. The steering group members give a review and preview with respect to their topics, to set up a 'business plan' for the near future and to set up the program for 2001. It was discussed to open new topics (e.g. coastal engineering) and to change the existing topics. Finally it was agreed that all activities have to be driven by persons 'bottom up' and not by decisions 'top down'.

The courses and summer school 2000 of the five topics

Rivers and Sediment Transport,
Hydraulic Structures and Hydropower,
Groundwater,
Environmental Hydraulics and
Hydroinformatics

Are published in the WWW

(<http://www.iws.uni-stuttgart.de/IAHR>). The EGW programme 2001 will be published in the IAHR Newsletter 6 - 2000.

In case of interest to join the EGW activity within the existing topics or on new topics please do not hesitate to contact the IAHR-EGW secretariat at the Universität Stuttgart,

Institut für Wasserbau (see <http://www.iws.uni-stuttgart.de/IAHR>). All kind of activities, ideas and support are welcome.

The meeting in Cardiff was also used to discuss the future progress of the IAHR-EGW in several dimensions. Besides the establishment of Open Distance Learning and Tele Teaching – modules and the use of WWW based conferencing tools for co-ordination meetings in the EGW, the co-operation with other related European activities (like ETNET 21 and Techware) will promote and develop the EGW. In this way the IAHR-EGW can act as a catalyst for university networking and promote the internationalisation of graduate education in the water sector.

The IAHR-EGW is since September 1999 an organisation network under the umbrella of IAHR of actual 25 members. New members are always welcome. The financial budget of this network is based on the membership fee (200 Euro/year). It was agreed to use about one third of this income for the general EGW organisation, co-ordination and advertising, and two third for direct support of new activities, such as summer schools, young scientists workshops, etc.

To reduce the number of EGW meetings it was agreed to have in future only one meeting per year, open for all IAHR-EGW members and to arrange a second meeting of the steering group as tele conference. Due to the combination of the general and the steering group meetings, the meeting in

Cardiff has been numbered as the 7th EGW meeting.

On Friday afternoon the participants of the meeting get the chance to visit the Cardiff Bay, one of the biggest engineering and environmental projects in Europe. Cardiff has a tidal range of 14 metres, one of the greatest tidal ranges in the world. Low tide conditions made the Bay inaccessible by water for up to 14 hours a day - with only exposed mudflats being visible. A huge barrage has been constructed and this encloses a 500 acre freshwater lake designed to be the focal point of the area now called Cardiff Bay. Measuring 1.1 km. in length, the barrage was designed as part of the massive drive to create a new waterfront environment for Cardiff. The impounded waters of the Taff and Ely rivers now form a huge freshwater lake. The barrage and the resulting freshwater lake are designed to encourage public use of the area (<http://www.data-wales.co.uk/bay1.htm>). The meeting participants would like to express the heartfelt thanks to the local host, R. Falconer for the excellent preparation and organisation of the meeting and for the kind invitation for a Welsh Dinner and especially the Cardiff Bay Tour.

F.Molkenhain

P.S.: Details about the IAHR-EGW as well as the actual course programme can be found on the redesigned and updated EGW homepage: <http://www.iws.uni-stuttgart.de/IAHR>

Annual Report from IAHR Section II.3 Fluid Phenomena in Energy Exchanges

Chairman

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2. Section II.3 Activities (June 1998 - May 1999)

2.1 Working Group on Refined Flow Modeling

Chairman: Dr. K. HANJALIC (Delft University of Technology, The Netherlands)

Secretary: Prof. M. LESCHZINER (UMIST, UK)

The "Refined Flow Modeling Group" continued its activity mainly through the organization of annual workshops on the

topic of Refined Turbulence Modeling. Over the past seven years, such workshops have been organized jointly with the ERCOFTAC, Special Interest Group for Turbulence Modeling, and with the support of COST Action F1. They have become an established, highly regarded event in the European Turbulence Modeling community. Following the 7th IAHR/ERCOFTAC Workshop May 1998 at the University of Manchester Institute of Science and Technology (UMIST), the Working Group held the 8th Workshop on 17 and 18 June 1999 at the Helsinki University of Technology, Finland. The test cases to be considered were: 8.1 Plane Couette flow subjected to spanwise rotation; 8.2 Flow in an asymmetric plane diffuser and a repeat case 6.2 Flow over a cube in a matrix (with emphasis on heat transfer). More information can be obtained from Dr. Patrik Rautaeimo, e-mail: Patrik.Rautaeimo@hut.fi .

2.2 Working Group on Advanced Nuclear Reactor Thermal Hydraulics
Chairman: Prof. Y. HASSAN (Texas A&M University, USA)

Prof. A. Sorokin of IPPE volunteered to host 10th Working Group Meeting on Advanced Nuclear Reactors Thermal Hydraulics at IPPE, Obninsk, Russia, in June or July 2001. A definition of the benchmark problem is underway, which should be selected from several candidates proposed by CEA-Grenoble, and by IPPE. A consideration is also being made for continuation of the previous benchmark exercise proposed by Frantisek Mantlik at the 9th meeting in Grenoble. More information is available from the chairman of the WG (hassan@trinity.tamu.edu) and Prof. Sorokin sorokin@lab22.obninsk.su

2.3 Working Group on Cooling Towers
Chairman: Dr. G. PALFALVI (GEA, Hungary)

The 11th IAHR Cooling Tower symposium took place in Cottbus, Germany from 21 to 25, September 1998. In the first two days, 21 papers were presented that discussed: air flow and water distribution in cooling towers; test results, site measurements; refurbishment of old equipment; new cooling tower projects. The following days the participants visited the 3000 MW Janschwalde Power Station where substantial refurbishment program has been recently completed and the Schwarze Pumpe Power Station that comprises two new units, each 800 MW capacity. In both power stations the clean flue gases are discharged via the natural draft wet cooling towers.

The participants agreed that the next symposium should take place in Sydney (UTS). * Professor John A. Reizes from the University of Technology, Sydney is the selected new symposium chairman who is responsible for the preparations.

The conference was held at The University of Technology, Sydney, November 22 to 25, 1999.

2.4 Working Group on Wind Engineering
No activities reported.

Creation of FSI WG

In the last Section Committee meeting held at National Cheng Kung University, Tainan, ROC Taiwan, October 7, 1998, major discussions centered on reorganization of the Wind Engineering WG to Fluid Structure Interaction (FSI). The position of chairman is still open. In this situation, H. Ninokata continues his efforts to find a candidate.

Seminar Proposal to LOC of the Beijing Biennial Congress 2001

It was confirmed to organize a Section Seminar "Advances in Industrial Hydraulics and Applications to Energy Production" in the XXIX Biennial IAHR Congress in Beijing, September 17-21, 2001. The proposal was accepted by Local Organizing Committee of the Beijing Congress. Please visit the web site: <http://www.2001iahr.iwhr.com/> and find a column of Special Seminars. It is noted that this seminar is strongly motivated by the new policy of the IAHR Biennial Congress. Namely *IAHR is looking for a bottom up approach in which the Sections have to take strong commitment in organizing technical sessions.*

In the committee meeting, J.P Chabard proposed to change the above seminar title to "Developments in Industrial Fluid Phenomena and Applications to Energy Production" and this new title was accepted.

A size of the seminar is to be decided but overall about ten lectures would be appropriate. We should have at least four lectures from each Working Group of the Section II.3: 1) Refined Flow Modeling; 2) Advanced Nuclear Reactors Thermal Hydraulics; 3) Cooling Towers; and 4) Fluid-Structure Interactions. Although it is preferable to have ones from Section II.3, it is not mandatory to limit speakers from inside the WGs.

The lectures should emphasize also the role of hydraulics research in harmonization of the production and use of energy, reduction in waste disposals, which give less damage to the environment. Specific topics such as high efficiency wind power, the use of cold seawater or current, etc. are welcome.

The chairman and the secretary of the Section II.3 are in charge of organizing this seminar.

8th ISFTM

Preparation has started for the 8th International Symposium on Flow Modeling and Turbulence Measurement (ISFTM). Professor A. Wada of Nihon University volunteered to host the meeting to be held in Tokyo in autumn 2001 just after or before the 2001 Beijing Congress.

Section News Letter

It was proposed to issue the Section Newsletter annually instead of biennially

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(1) Chairman of the "Cooling Towers" Working Group
(2) Chairman of the "Refined Flow Modeling" Working Group
(3) Secretary of the "Refined Flow Modeling" Working Group
(4) Chairman of the "Advanced Nuclear Reactors Thermal Hydraulics" Working Group

IAHR Stuttgart Student Chapter Activities



The IAHR Student Chapter Stuttgart, which has been initiated towards the end of 1999, organized a number of activities starting with the summer term at the University of Stuttgart.

Workshop on presentation skills

To enhance the students' knowledge in presenting technical topics to an audience, a skill which is gaining increasing importance for international operating engineers, a workshop on presentation techniques has been offered. The workshop was given by the new head of the Office of International Affairs, Mr. D. Brenneisen, an expert in communication skills, who has been giving many such lectures and workshops.

Excursion

Donauwörth, a wonderful Bavarian town of about 18,000 inhabitants, was the chosen place of the first excursion of the Student Chapter. Donauwörth is situated between the rivers Danube and Wörnitz and has been endangered periodically by floods especially during springs, and some parts of the old city centre were flooded. In a 40 Mio. DM Project, the city of Donauwörth, together with the state of Bavaria, completed a flood protection system around the city during the last 30 years. The concept of this system was described in detail to the participants of the excursion by the hydraulic engineers of the city as well as from the state of Bavaria.

Formal Inauguration of the Student Chapter

A formal inauguration ceremony of the Student Chapter Stuttgart took place on the 30th of June, as part of the annual Wasserbaukolloquium at the Institute for Hydraulic Engineering of the University of Stuttgart, which had the theme „International Education, Engineering and Project Management in Water Resources“. Presentations to an audience of students,



institute members and engineers were given by internationally experienced professionals like Prof. Dr. J. Bogardi from the UNESCO Water Sciences Division, Paris, Prof. Dr.-Ing. J. Peters, Consultant, Brussels and Dr.-Ing. A. Hutarew, Consultant, Pforzheim.

After these presentations, the IAHR Student Chapter Stuttgart was inaugurated. A multimedia show about the life in the student chapter was followed by an inauguration speech

of one of the presidents, cand. Ing. Armin Messerer as well as by Dr. C.B. George, Executive Director of the IAHR, who inaugurated the chapter officially giving the students a big IAHR flag as well as a free participation for one member at the IAHR congress in Beijing in 2001. Professor H. Kobus, head of the department for groundwater and hydraulics at Stuttgart University and former head of the IAHR, supported the chapter's start by sponsoring their next weekend study trip in fall 2000.

The Wasserbaukolloquium was finally followed by a barbecue organized by the Student Chapter.



Report on IMUG 2000

IMUG 2000 conference took part in Prague, hotel Don Giovanni during the period of April 12 - 14, 2000.

According to good reactions from various parts of the world, it could be concluded that the conference was successful.

There were registered 135 participants from nearly all over the world - Australia, Austria, Belgium, Canada, Czech Republic, Denmark, France, Germany, Greece, Italy, Japan, New Zealand, Norway, Poland, Russia, Slovakia, Slovenia, Sweden, The Netherlands, United Kingdom, USA - including respected experts such as Prof. M. Abbott, IHE Delft from The Netherlands and Dr.J.Marsalek from NWRI, Canada.

More than 30 contributors presented their papers within six sessions

Case Studies

Integration

CSOs

Monitoring

Modelling

Asset Management

and two workshops

Funding Options and Modelling Tools for Integrated Water Management in Europe
IAHR/IAWQ - Indicative Problems
Requiring Scientific Solutions

As the best paper was awarded the paper "Investigation and Study of the Sewer System on the Island of Ischia (Naples) to Upgrade it to Meet EU Regulations" introduced by L. Sainz- SGI from Italy.

A parallel exhibition to the conference was organised, where about 15 companies and consultants presented in booths and/or poster exhibitions their products and methods. The exhibiting companies support the conference substantially. The exhibitors were (in alphabetic order) Accusonic, Aquatis a.s., AquaProcon s.r.o., Berit a.s., CarlBro, d plus s.r.o., DUIS s.r.o., DHI - Water and Environment, Haswell Consulting Engineers, Hydroinform a.s., Hydroprojekt a.s., Logica s.r.o., PVK a.s., Skanska Stav, VRV a.s., Wallingford Software Ltd, and also Association of Experts in Water Treatment (ACE) and Association of experts in Water Supply and Sewerage Systems (SOVAK) .

A regular meeting of IMUG committee took place in Prague during the closing phase of the conference. The official representatives of SOVAK and Association of Water Industry (SVH) interpreted at the meeting the official application of the SOVAK association for a regular membership in the IMUG organisation. The committee of IMUG has accepted the application and the representative of the Czech Republic has been invited into the IMUG committee as the first regular member from CEE region.

More info about IMUG is available on <http://www.imug.com>

Proceedings (45 USD, payment could be arranged by the credit card) are available by contacting Pavlina Nesvadbova, e-mail: p.nesvadbova@dhi.cz



STEAM PROJECT

The European Community is part funding a project called Sewer Technology for European Applications Methodology (STEAM). The project is aimed at continuing and strengthening dissemination of the SPRINT Specific Project SP226 "Real Time Control for Urban Drainage Systems". In SP226 Real Time Control (RTC) technology was adapted and applied at numerous pilot study areas throughout the EU and was demonstrated to offer more cost affective solutions to a wide variety of urban drainage problems.

The STEAM project will eventually have its own website to provide assistance and training in RTC. A CD-ROM is also being developed as an RTC learning tool. Seminars/workshops on RTC are being organised by the STEAM project, they will be held on the 26 and 28 May 1998 in Vienna and Munich. Details will follow shortly.



For more information contact **John Wood**, e-mail: wood_j@wrcplc.co.uk at WRc UK or **Ole Mark**, e-mail: omj@dhi at DHI Denmark.



World Water Vision

a closure report from Bill Cosgrove and Frank Rijsberman

The Vision....

As we prepare to close the offices of the Vision Unit, we cannot help but recall the Vision of the water world of 2025 as we heard it expressed by thousands of participants in the Vision exercise.

"The year is 2025. Looking around, we see that our efforts begun at the turn of the century are starting to bear fruit. The loss of ecosystem functions and biodiversity has been reversed, and water resources are being rehabilitated. The integrated management of human social and economic activities, with care for catchments and groundwater units, forms the backbone of affordable and sustainable water supplies for communities, farms, and industries.

"The world population now stands at 7.5 billion, but everyone has access to safe water supplies. Agriculture produces enough food so that no one need go hungry. Reduced global water consumption by industry has accompanied substantially higher economic activity in what were the emerging and developing countries of 2000. Similar concern for freshwater and the environment has reduced the volume of waste from human activity and led to the treatment of most solid and liquid wastes before their controlled release into the environment.

"In 2025 almost every woman and man, girl and boy in the world's cities, towns, and villages knows the importance of hygiene and enjoys safe and adequate water and sanitation. People at the local level work closely with governments and non-governmental organisations, managing the

water and sanitation systems that meet everybody's basic needs without degrading the environment. People contribute to these services according to the level of service they want and are willing to pay for. With people everywhere living in clean and healthy environments, communities and governments benefit from stronger economic development and better health."

We not only developed this shared vision of the world in which we wish live in, but also a strategic framework for getting there. In The Hague in March, we discussed and debated our visions and strategies and committed ourselves to move forward.

Three challenges....

Since March we have been reading about the possible water crisis everywhere. We also have been reading a lot about global climate change. In the Vision scenarios, we tended to downplay the effects of climate change.

The models that are being used to predict change showed minor changes by our horizon of 2025 under any of the scenarios being examined. However, it is now clear that land and water use will be major determinants in the level of emissions of greenhouse gases and hence of global warming. These inter-relationships have not been adequately integrated in our past work or in that of those studying this global issue and its regional implications. Making these links is the first of the challenges facing us.

Secondly, we cannot help but feel that while there is a much greater awareness of the problems we face, the reaction on the part of decision makers does not show the

sense of urgency that we all know is required.

Whether we are concerned about the intolerable situations of lack of access to water for billions of the world's poorest, of the continuing threats of droughts and floods or of the daily degradation of the environment, action is required NOW!

Our second challenge is to work together so that the sense of urgency is heightened.

Finally, looking back, we can see that through the participation and cooperation of thousands, we achieved results that seemed impossible. It was pointed out by many at the Forum that we have barely scratched the surface in involving all of the stakeholders in the process.

Our challenge is to spread the movement we have started to involve those we neglected or simply did not have time to reach.

With them we will make progress towards achieving our Vision that we can report at the Third World Water Forum in Japan in 2003. We must truly make water EVERYBODY'S business.

Together we know we can work wonders!

The World Water Council will hold its Second General Assembly on October 19 in Marseilles, France. The current Board of Governors will meet on October 18, while the newly elected Board of Governors will meet on October 20.



Droplets

2000 Hydroinform a.s. officially belongs to the DHI Water & Environment Group

HYDROINFORM a. s. is active on the market since 1990 and it is known as a dynamic company dealing with consultancy and expert opinions in the water management and environment fields. The activity of the company is always based on applications of the most modern technology, based on the principle knowledge of key experts educated in Hydroinformatics.

HYDROINFORM a. s. became the exclusive



agent for software products of the Danish Hydraulic Institute in the territory of former Czechoslovakia. The company has progressed well, establishing standards in computational tools not only with products from DHI but also with products designed by Hydroinform. All key consultants and designers and/or companies dealing with water (urban drainage, water supply and river management, reservoir operation, etc.) use the software products and tools widely distributed by Hydroinform.

Co-operation with the Danish Hydraulic Institute has broadened spontaneously, and the designers from Hydroinform have created a flexible team together with our Danish colleagues. Co-operation in application of technologies and selected tools on international projects has also expanded. This common activities tended to the consistent step: Since the beginning of July 2000 Hydroinform a.s. officially belongs to the DHI Water & Environment Group. There are no changes in the field of our activities – we are still specialised in consultancy based on research and development in combination with the application and sales of front-end technologies (software and hardware). There are also no changes in the staff organisation. We only decided that the long time lasting co-operation with DHI could underline the official character. We do also hope that this step will bring benefit to both companies.

International Engineering Student Mobility Fund

The Global Engineering Education Exchange (Global E?) is an international exchange program for engineering students at participating universities. The program is designed to allow students to take courses overseas for credit at their home institutions, and receive practical training in another country, if desired. More information: www.iie.org/pgms



Fullbright Scholarship Program

The US State Department administers and funds the Fullbright program which funds the movement of graduates and professionals from the US and other countries to travel for study and research. More information: www.iie.org/fullbright

Stockholm Junior Water Prize

The Stockholm Junior Water Prize is an international competition that honors one of the world's most outstanding water science research projects by a young person or group of young people. Prize eligibility is open to young people up to the age of 20 who have contributed to water conservation and improvement through scientific and environmental projects focusing on local, regional, national or global topics. see <http://www.siwi.org>

New Stockholm Industry Water Award

In order to stimulate the business sector to contribute to sustainable development in the water sector, a new prize - the Stockholm Industry Water Award - has been established by the Royal Swedish Academy of Engineering Sciences, World Business Council for Sustainable Development and Stockholm Water Foundation. Nominations are now being sought for the inaugural Stockholm Industry Water Award and are due by May 30, 2000. For more information, see <http://www.siwi.org>

FP5 - INCO: Conference Participation Support

Financial support for attending conferences for applicants from Central and Eastern European countries and from the newly independent states of the former Soviet Union. Support can also be given for organising conferences in these countries.

<http://www.cordis.lu/inco2/calls/calls.htm>

New Internet Database of ICM Education and Training Courses

As part of the Coastal Guide Programme, the EUCC is compiling an internet database of ICM Education and Training Courses. Once complete, the database will be accessible and searchable through the Coastal Guide website

<http://www.coastalguide.org>

It is intended that the database will provide a central information source for those seeking ICM education or training opportunities through providing basic course details and links to relevant homepages. Although initially focusing on courses offered in Europe, we also welcome notification of courses offered outside Europe that are open to European citizens. To include a course in the database, a questionnaire, to complete so that all course details are collected and presented in a standardized format, can be downloaded directly from the Coastal Guide website

<http://www.coastalguide.org/training>. We encourage all ICM course leaders to make use of this opportunity which is completely free of charge. Further information is available from either Steve Fletcher, Editor of the Education and Training section of the European Coastal Guide steve.fletcher@solent.ac.uk or the European Coastal Guide helpdesk helpdesk@coastalguide.org

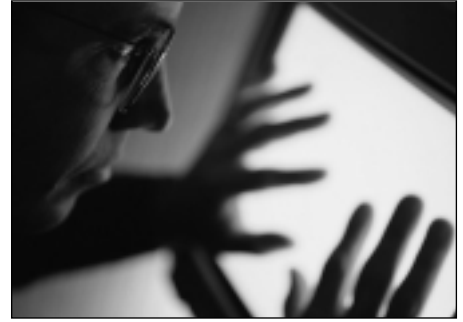
Sightseeing

Institute for International Education This international non governmental organisation based in New York, US assists those wishing to travel to other countries for educational or cultural purposes. It provides an on-line searchable database of over 4000 study

abroad programmes open to foreign nationals. Website: www.iee.org

A site about bioengineering for hydraulic engineers <http://biotec.ch>

If you have other interesting links please forward them to us: zee@iahr.org



Job Announcements

Funded Graduate Opportunities in Boise, Idaho, USA leading to: Ph.D., M.Eng., and M.S. degrees

*Interdisciplinary research related to hydrology and water resource management

*Project components include computational hydraulics, hydro-climatology, geomorphic evolution, watershed processes and ecological response

*Projects undertaken in collaboration with several federal agencies, European universities and research institutions with opportunities for student exchange

*Students of all disciplines are encouraged to apply

Specific projects available:

Simulation of floodplain - river channel interactions

Cold season hydrology, simulation of snowmelt over complex terrain

Simulation of geomorphic evolution of river channels

Individual-based modeling of fish populations

Emergent technologies (ANNs, GPs, GAs, CA)

For further details, contact: Dr. Peter Goodwin +1-208-364-4081 or

pgoodwin@uidaho.edu or Denise

Engbrecht +1-208-364-4085 or

denisee@uidaho.edu

in research into scaling issues in hydrology and their implications for engineering hydrology.

Work towards a doctoral degree is envisaged.

Emphasis in research will be on combining various process descriptions by a range of methods including spatial stochastic methods, deterministic process based models, as well as similarity concepts based on characteristic space and time scales. These concepts will be verified by extensive data analyses of runoff dynamics and flood frequency at a range of scales.

The successful candidate will be part of an enthusiastic working group that maintains strong collaborative links with other EC countries and overseas.

The position is available from September 2000. Applicants should submit a resume, a copy of their final academic transcript, the names of three referees and a letter stating their research interests. For further information please contact

A.o.Univ.Prof. Dr. Günter Blöschl

Institut für Hydraulik, TU Wien

Karlsplatz 13/223, A-1040 Wien, Austria

e-mail: bloeschl@hydro.tuwien.ac.at

<http://www.hydro.tuwien.ac.at/>

PhD Research in a Unique Partnership

Research in the fields of Processes, Pipeline Technology and the Environment WRC and Imperial College co-operate as partners in a postgraduate training scheme pursuing high quality PhD research in areas of industrial relevance. The partnership offers students a unique opportunity to undertake an integrated

programme of academic and business training in a contract research environment.

Projects currently being undertaken within the partnership:

Elements of an integrated model for tackling leakage and bursts in water distribution pipelines

The biodiversity of soils contaminated with heavy metals

Development of speciation based on environmental quality standards

The development of mode of action toxicity biosensors for the wastewater industry

Protection of water distribution systems in earthquake zones

In-situ bioremediation of nitrate contaminated groundwater

The enhancement of particle removal in water treatment by pre-oxidation

A mathematical modelling approach to the design of reliable water distribution networks

Human exposure to manganese; speciation and potential toxicity

Strategies to improve risk assessments of the impact of ammoniacal-nitrogen from landfill leachate on groundwater

Disinfection, stabilisation and metals removal in biosolids using the sulphur cycle.

The partnership has a further project available on "Optimisation of Water Network Management" and is seeking candidates to start in October 2000. See below for project details. The successful candidate will be awarded an EPSRC CASE studentship for 3 years. They will

spend most of their time working at WRc, but will be registered for their research degree at Imperial College.

Note, applicants must be British nationals to qualify for the EPSRC award

If you wish to receive further details please contact:

Mrs Frances Smith, Personnel Officer
WRc plc, Frankland Road, Blagrove,
Swindon, Wiltshire, SN5 8YF, UK
Tel: 01793 865000
Fax: 01793 865001
e-mail: smith_f@wrcplc.co.uk

Imperial College And Wrc Postgraduate Training Partnership.

PhD Project studying the Optimisation of Water Network Management. Applicants will need a strong interest in the application of software in practical situations and are likely to come from an Applied Mathematics, Physics or Engineering background.

The successful candidate will evaluate the functionality of key optimisation techniques and limitations of current software tools and highlight areas of deficiency. The pros and cons of integration (or improved compatibility) of these tools in the context of complex decision procedures will be evaluated. This will provide the stimulus for future extensions to existing tools and the development of new procedures that will be driven by the successful candidate. The software packages which will feature in the project encompass the following topics:

GIS.

Hydraulic analysis.

Water quality modelling.

Population survival functions.

Risk assessment.

Whole life costing.

Contact: Dr David Butler

Urban Water Research Group

Department of Civil & Environmental Engineering

Imperial College of Science, Technology & Medicine

London, SW7 2BU, UK.

Tel: + 44 20 7594 6099

Fax: + 44 20 7594 6124 or + 44 20 7225 2716

e-mail: d.butler@ic.ac.uk

Web: <http://ewre-www.cv.ic.ac.uk> and

<http://www.urbanwater.net>

Research Studentships in Computational Dynamics (Manchester, UK)

The Centre for Mathematical Modelling and Flow Analysis at Manchester Metropolitan University has two Research Studentships. We are looking for well qualified students interested in undertaking a three year PhD programme in Computational Hydrodynamics. The CMMFA, which is located in the Department of Computing and Mathematics, has over been developing modern high resolution, time accurate, Cartesian cut cell, solvers for both multicomponent flows and flows involving discontinuities (i.e. bore waves). We are currently pursuing work on violent wave over topping of seawalls and coastal structures but the methods developed are applicable to river and estuarine hydrodynamics. Further details can be obtained by e-mail to either Dr David Ingram D.M.Ingram@mmu.ac.uk or Professor Derek Causon D.M.Causon@mmu.ac.uk Funding for these studentships is restricted to applicants from countries in the European Union.

Tenure-track Faculty Position in Coastal Engineering (Honolulu, Hawaii)

The Department of Ocean and Resources Engineering at the University of Hawaii invites applications for a full-time tenure-track position, at the rank of assistant or associate professor, in the field of coastal engineering. Ocean and Resources Engineering is a graduate department offering M.S. and Ph.D. degrees and is part of the School of Ocean and Earth Science and Technology (SOEST). The program is accredited by ABET. Program areas of emphasis include coastal engineering, offshore engineering, ocean resources engineering, and marine bio-product engineering. The applicant should have a Ph.D. degree in Engineering, Applied Mechanics, Fluid Mechanics, or a closely related discipline. Practical experience in engineering design is highly desirable, and the successful candidate must obtain PE certification prior to tenure application. The candidate is expected to teach graduate courses and develop funded research projects in the areas of littoral processes, sediment transport, coastal environmental engineering, and construction and design

of harbor facilities. Interested applicants should send a detailed resume, an outline of teaching and research plans, copies of three relevant publications, and names and addresses of three references to: Dr. K.F. Cheung, Chair of Search Committee, Department of Ocean and Resources Engineering, University of Hawaii at Manoa, Holmes Hall 402, 2540 Dole Street, Honolulu, Hawaii 96822. This position, subject to position clearance, will be available on January 1, 2001. Application deadline is July 31, 2000.

PhD Position Data Assimilation in Hydrological Modelling (Hørsholm, Denmark)

DHI Water & Environment is looking for a PhD Fellow for the research project "Data Assimilation in Hydrodynamic and Hydrological Modelling" funded by the Danish Technical Research Council. The PhD project will focus on development and application of data assimilation techniques in numerical hydrological modelling. The developed techniques will be implemented and applied in DHI's hydrological modelling systems. Qualifications: a MSc degree with strong scientific and technical skills in some of the following areas: Hydrological modelling Mathematics and numerical analysis Statistics and time series analysis Computer programming For further Information and application, please contact Henrik Madsen hem@dhi.dk. Deadline for application: 30 June 2000 to: DHI Water & Environment Agern Allé 11 DK-2970 Hørsholm, Denmark Att. Henrik Madsen <http://www.dhi.dk/merged/jobs.htm>

Faculty Postions - University of Florida

The Civil and Coastal Engineering Department at the Univeristy of Florida invites applications for two tenure-track faculty positions in coastal and oceanographic engineering. Applications for all faculty ranks from individuals specialized in any sub-dicipline or inter-dicipline will be seriously considered. Preference will be given to candidates with strenghts in nearshore processes, coastal structures, or estuarine hydrodynamics and water quality processes. The successful candidate will be expected to develop and sustain an independent, extramurally

funded research program. She or he will also be expected to teach undergraduate and graduate courses. Applicants should send a letter of application, a resume, and a list of references before 1 September 2000, to Dr. Daniel M. Hanes, Search Chair, Coastal and Oceanographic Engineering Program, Box 116590, University of Florida, Gainesville, FL 32611-6590 USA.

PhD Studentship "Sediment Transport Processes in the Swash Zone" (Loughborough, UK)

We are seeking a person for a three-year post-graduate studentship starting in October 2000. The PhD position is tied to a large NERC grant ("The Role of Swash in Shoreline Change") involving the Institute of Marine Studies (University of Plymouth) and the Geography Department (Loughborough University). The topic of the PhD project is "Sediment Transport Processes in the Swash Zone". The successful applicant will be based in Loughborough and will be jointly supervised by Dr. Gerd Masselink (Loughborough University) and Dr. Paul Russell (University of Plymouth). The PhD student will be involved with designing and conducting two extensive field experiments on two contrasting UK beaches and the subsequent analysis and interpretation of the collected data. Prerequisites for the position are a EU passport and a BSc (final mark at least 2:1) or a Masters in Physical Oceanography, Physical Geography, Coastal Engineering or a cognate topic. In addition, a good understanding of nearshore processes is essential. Numerical modelling and data analysis skills are an advantage. Applications close on 1 July 2000. For more information please contact Dr. G. Masselink G.Masselink@lboro.ac.uk or Dr. P. Russell P.Russell@plymouth.ac.uk

Call for Applications: Candidates for Temporary Research Posts (EU)

The Directorate-General responsible for implementing the Research and Technological Development (RTD) Policy of the Commission of the European Communities are inviting tenders for contracts not exceeding a total of three years for the management of projects and contracts under the Fifth Framework Programme. Successful applicants will be entered in a data base and may be used to fill any highly specialised vacancies which arise in these Directorates-General between 1999 and 2002. The General conditions are: Nationality: Must be a national of one of the European Union's Member States. **Place of employment:** All places of employment, often outside the candidate's country of origin. **Knowledge of languages:** A thorough knowledge of one official Union language and a satisfactory knowledge of a second Union language. Closing date: Application forms must be returned before 30/06/2002. The call text, application form and instructions can be downloaded at <http://www.cordis.lu/nppr-candidature/>

Coastal Modeller / Engineer / Scientist (2 posts) (Wallingford, UK)

HR Wallingford, the Coastal Department seeks to recruit two staff. The first will extend the Coastal Structures team with a numerical modeller/engineer to support in specialist consultancy and research associated with seawalls, breakwaters, coastal and shoreline protection, harbour/marina structures, and innovative wave protection systems. The second will join the Marine Sediments team, and will undertake development and application of numerical models to simulate the movement of water, waves and sediment in coastal waters. Some physical modelling and analysis of field data is also likely to be part of this work. The successful candidate

for either post will have a good degree in civil engineering, physical oceanography or a related subject, preferably with a higher degree (MSc or PhD) or relevant experience in coastal science or engineering. Familiar with numerical model development, you will be happy working in small teams, possess an innovative approach to problem solving, and be keen to undertake both research and consultancy studies in the coastal field and experimental work, and be keen to make a significant contribution to improving / extending analysis techniques. For the Coastal Structures post some design experience (preferably maritime) would be advantageous. For the Marine Sediments post you will have a sound background in mathematics, physics and numerical solution of differential equations. For further information and application form please contact: Maureen Ferguson, Personnel Manager, HR Wallingford, Howbery Park, Wallingford Oxon, OX10 8BA, UK Tel: 01491 82 23 17 Email: maureen@hrwallingford.co.uk or send an application with full CV to the above address.

Marine/Waterfront Structural Engineer (Tampa, Florida, USA)

Han-Padron Associates are seeking a Sr. Project Engineer with 5+ years of marine engineering experience, a BS/MS in civil or structural engineering, steel/concrete design and structural analysis experience, a Florida PE (or eligible), and strong communication and client relation skills. Please forward resume to: Han-Padron Associates, 5401 West Kennedy Blvd, Suite #700, Tampa, FL 33609, or contact: tstockberger@han-padron.com Please note that the vacancies may be restricted to applicants having right of residence in the country concerned.

Latest events:

MEDCOAST Institute 2000: **The Sixth International Training Program on Integrated Coastal Management in the Mediterranean and the Black Sea, 22 August - 8 September 2000, Ankara-Aegean Coast-Dalyan.** The deadline for application to participate is June 20. For more information and application procedure, contact medcoast@metu.edu.tr, website: <http://www.medcoast.org.tr>

Advanced Study Course "Mediterranean Integrated Coastal Area Management", Nice, France, 4-15 September 2000 supported by the European Commission, organised by University of Nice and Intergovernmental Oceanographic Commission of Unesco. Programme: Part I: Scientific basis for Mediterranean marine research; Part II: Environment/development interactions, future of the Mediterranean Basin and sustainable coastal management requirements; Part III: Case studies related to the environment of Mediterranean coastal areas; Practical exercises: Field courses and visits. Application deadline 17 June 2000. Website: <http://www.unice.fr/dessgp/micam2000>
Scientific Directors of the Course: Prof. Michel Popoff, e-mail: micam@unice.fr Dr. Jacques Morelli, e-mail: s.vernizzi@unesco.org

IV-th International Conference Water Supply and Water Quality, Krakow (Poland), September 11-13, 2000
e-mail: office@lemprojekt.com.pl, website: <http://www.lemprojekt.com.pl/water2000>

Conference on Research Infrastructures, 18-20 September 2000, Strasbourg, France, organised by the European Commission. Participation by invitation following an initial expression of interest. Further information and pre-inscription at website: www.cordis.lu/improving/src/ari_conf.htm

A Meeting of ISO/TC 147 on water quality will meet in Turkey 18-23 September, 2000 Anyone interested in this meeting should contact their national representative.

Electronic Workshop Land-Water Linkages in Rural Watersheds 18 September - 28 October 2000 organised by the Land and Water Development Division FAO. The workshop will function as a moderated e-mail list. To register, please send an e-mail to mailsers@mailserv.fao.org The first line of the message should read "subscribe watershed-L" Further information will be available on the workshop website <http://www.fao.org/ag/agl/watershed>, Contact Benjamin Kiersch, e-mail: benjamin.kiersch@fao.org

Design of Water Quality Monitoring networks, a short course on 18-22 September 2000, Horsholm, Denmark. Find more information and registration forms at website: www.dhi.dk/courses/designwq.html

International Workshop "Monitoring Tailor Made III" on Information for Sustainable Water Management, 25-28 September 2000, Nunspeet, The Netherlands
e-mail: regmtm.iii@gongress.net, website: <http://www.riza.nl>

Conference and Exhibition Hydro 2000 - Making Hydro more competitive, Bern, Switzerland 2-4 October 2000.
Contact: conf@hydropower.cix.co.uk, website: <http://www.hydropower-dams.com>

International Workshop "Integrated Water Resource Management", October 2-6, 2000, Denver, Colorado, USA. For further information contact: lprinciple@do.usbr.gov

Advanced Course on Rural Planning in Relation to the Environment, 2 October 2000 - 8 June 2001, Zaragoza, Spain, organised by Mediterranean Agronomic Institute.
Contact iamz@iamz.ciheam.org
<http://www.iamz.ciheam.org>

HYDRUS short course "Modeling of water flow and solute transport in variably-saturated media", on October 17-21, 2000 at Monte Verita, Switzerland. Registration deadline is October 1, 2000 and enrolment is limited to 30 participants.
Contact : abbaspour@ito.umnw.ethz.ch

XIX Congreso Latinoamericano de Hidráulica CORDOBA 2000 22-27 October, Cordoba, Argentina.
Sponsoring organisations: INA (Instituto Nacional del Agua y del Ambiente), la Universidad Nacional de Córdoba and IAHR (International Association of Hydraulic Engineering and Research). Contact: Sra Laura Melamed, INA-Encuentros y Seminarios - EyS, Au. Ezeiza Canuelas Tramo J. Newbery, tel/fax: +54-11-4480 0433. e-mail: eyes@ina.gov.ar, website: www.geocities.com/CollegePark/Librar/1939 or <http://www.ina.gov.ar/cordoba2.htm>

12th Biennial Congress of the Asia and Pacific Division of IAHR "Sustainable Water Resources Management: Issues and Future Challenges for the Next Millennium November 13-15, 2000, Bangkok, Thailand Contact: Prof. Dr. A. Das Gupta, APD-IAHR Congress Secretariat, Water Engineering and Management Program, Asian Institute of Technology, School of Civil, Engineering, G.P.O. Box 2754, Bangkok 10501, Thailand e-mail: adg@ait.ac.th

International Conference on Marine Waste Water Discharges Genoa, Italy 28 November - 1 December, 2000
The Conference will cover engineering, scientific and legislative issues concerned of marine disposal and is particularly focussed on using sea outfalls.
Deadline for Papers July 30th, 2000
Sponsoring organisations: IAHR AMGA, Techware,
Contact: Dr Carlo Avanzini at mecc.cav@pn.itnet.it, fax +39 010 394633

2001

International Post- Graduate course on Hydrology with special regard to IWRM

Water Resources Research Centre (VITUKI), Budapest, Hungary

April 1 – July 31, 2001

The objective of the course is to acquaint post-graduate participants with advanced theoretical and practical methods used in hydrology and related disciplines, which together form an integrated approach to environmental management.

Minimum requirements are a BSc degree or equivalent level of academic studies and two years of experience in the field of environmental management or hydrology, or in one of the branches of water management. The Course is open to any applicants of less than 40 years.

Sponsoring organisation: IAHR

Further information:

www.vituki.hu/ceg/tanf_index.htm

Mail to: VITUKI Training, H-1453

Budapest Pf. 27, Hungary

Tel/Fax: +361 215 3043 e-mail:

training@vituki.hu

The First International Conference on Saltwater Intrusion and Coastal Aquifers-Monitoring, Modeling and Management (SWICA-M³)
Essaouira, Morocco, April 18-25, 2001.
Alexander Cheng, Department of Civil & Environmental Engineering,
University of Delaware, Newark,
Delaware 19716, USA, tel: +1-302-831-6787 fax:

+1-302-831-3640, e-mail:

cheng@ce.udel.edu, web page:

<http://www.ce.udel.edu/faculty/cheng/saltnet/swica/>

SIM 2001 - International Knowledge Exchange in Applied Simulation and Visualisation, June 17-21, 2001, Freiburg i.Br., Germany

<http://www.sim2001.com>

International Symposium Frontiers in Urban Water Management: Deadlock or Hope?

18 - 20 June 2001, Marseille, France

UNESCO, International Hydrological Programme, Division of Water

Sciences, 1, rue Miollis, 75732 Paris Cedex 15, France

e-mail: Symposium2001@unesco.org

Symposium (S4) on Hydrogeochemical and transport processes with emphasis on aquifer characteristics and reactivity, is being held during the 6th Scientific Assembly of IAHS, 18 - 27 July, 2001, Maastricht, The Netherlands.

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<http://www.wlu.ca/~wwwiahs/news67/maast.htm>

The 2001 ISRM sponsored international Symposium - 2nd Asian Rock Mechanics Symposium "Frontiers of Rock Mechanics & Sustainable Development in the 21st Century", Beijing, China, September 11-14, 2001 (precedes IAHR Congress). e-mail: egml@igcas.ac.cn website: <http://isrm2001.homepage.com>

MEDCOAST 2001 - The Fifth International Conference on the Mediterranean Coastal Environment, November 2001, Hamammet, Tunisia. Deadline of abstract submission: January 1, 2001. Contact: medcoast@metu.edu.tr website: <http://www.medcoast.org.tr>

Third International Symposium on Environmental Hydraulics with a special theme on Urban Fluid Dynamics"

December 5-8, 2001. Arizona State University (ASU) in Tempe, USA. This will be prior to the AGU meeting in San Francisco.

Sediment transport and debris flow; Estuarine and coastal hydraulics; Stratified and rotating flows, topographic effects, outfalls; Rivers

and waterways; Advances in water quality and treatment; Porous media, multi-phase flows; Jets, plumes, and wakes; Turbulence and diffusion; Environmental impact and risk assessment; Stochastic hydraulics; Water distribution systems, storm water collection.

URBAN FLUID DYNAMICS ;

Atmospheric dispersion; Chemical and biological effects; Microscale and mesoscale atmospheric flows; Thermally driven environmental flows; US - Mexico Border Air Quality Dynamics

Contact: don.boyer@asu.edu, website <http://www.eas.asu.edu/iseh2001/>

2002

Environmental Flows For River Systems An International Working Conference On Assessment and Implementation Incorporating The Fourth International Ecohydraulics Symposium
Cape Town, South Africa. 3-8 March 2002

Ros Townsend, Environmental Flows Conference Secretariat, Southern Waters Ecological Research and Consulting, P.O. Box 13280, Mowbray 7705, South Africa., Fax:+27-21-6503887, e-mail:

conference2002@southernwaters.co.za, website:

<http://www.southernwaters.co.za>

A complete list of events, known to IAHR, can be found at the [IAHR internet site section: Newsweb / Conference List](#)

Abstracts of papers in JHR Volume 38 (2000) Issue 4