

INTERNATIONAL WATER ASSOCIATION HEALTH-RELATED WATER MICROBIOLOGY

NEWSLETTER

January 2002

This issue includes:

News of the HRWM Melbourne programme and where to obtain abstracts
News about other meetings
The Walkerton Outbreak Report
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IWA Water KnowHow

MEMBERSHIP DATABASE

I have no record of your registration!

– ALMOST LAST CHANCE TO REGISTER!

It is essential that (a) the Group knows who its members are, (b) where they are and (c) how to contact them! The database is being updated and you must register your interest in receiving a personal copy of the Group's Newsletter by providing the following information to microbe@ntlworld.com as soon as possible!

Surname and given names	Status (Dr, Prof etc)
Email address	<u>Full</u> postal address
Telephone and fax numbers	FIVE keywords indicating <u>current</u> interests
IWA membership: (a) individual (b) corporate (c) not a member	

[In accordance with British law on Data Protection, the provision of such information to the Group Secretariat is solely for Group business and will not be distributed as a mailing list to other non-IWA concerns. By submitting your details you agree to the information being held by the Group.] If you know of any colleagues who would be interested in receiving their own Newsletter but who may not have received any in the past please get them to send in their details as well!

If you do not register your details there is no guarantee that you will be kept up-to-date with Group activities!

If you do not wish to be removed from the mailing list please let us know!

Send an email to check if you on the list if you are not sure!

MELBOURNE SYMPOSIUM – 7-12 APRIL 2002

The Group is to hold its 11th Symposium in Melbourne, Australia at the same time as the IWA Biennial of 2002. The final oral programme is below.

Copies of the oral and poster abstracts (returned as Word file attachment) can be obtained by sending an email to hrwm.melbourne@ntlworld.com

Day	Time	Paper
Monday April 8th	0900	IWA OPENING CEREMONY
	Session 1:	Recreational water quality - 1
	1100	Paper 1: <i>Pathogens and indicators in New Zealand's recreational freshwaters</i> – D Till, G McBride & A Ball (New Zealand)
	1130	Paper 2: <i>An epidemiological study of health risks from bathing in German fresh water bathing sites</i> – A Wiedenmann, P Krüger, S Gommel, M Hirlinger, M Eissler, K Jüngst, S Brockmann, K Dietz, J López-Pila, R Szewzyk & K Botzenhart (Germany)
	1200	Paper 3: <i>Phenotypic population characteristics of the enterococci in wastewaters and animal faeces: implications for the new European Directive on the quality of bathing waters</i> – JL Wallis & HD Taylor (UK)
	Session 2:	The Walkerton outbreak: experiences and lessons
	1430	Paper 4: <i>A fatal waterborne disease epidemic in Walkerton, Ontario: comparison with previous waterborne outbreaks in the developed world</i> – SE Hrudney, P Payment, PM Huck, RW Gillham & EJ Hrudney (Canada)
	1500	Paper 5: <i>Drinking water contamination in Walkerton, Ontario: positive resolutions from a tragic event</i> – R Holme (Canada)
	Session 3:	Epidemiology
	1630	Paper 6: <i>Sensitivity of environmental poliovirus surveillance measured after OPV challenge of healthy individuals</i> - AM de Rhoda Husman, F Abbink, A Holwerda, WJ Lodder, TG Kimman, PFM Teunis, MAE Conyn van Spaendonck & AM Buisman (the Netherlands)
	1700	Paper 7: <i>Epidemiological confirmation of the first detected waterborne giardiasis outbreak in Germany</i> - T Kistemann, T Claßen, B Kölb, M Exner & F Dangendorf (Germany)
	1730	<u>Open meeting of the Health-related Water Microbiology Group</u>
Tuesday April 9th	Session 4:	Sources of microbial contamination

	0830	Paper 8: <i>The effectiveness of guideline faecal indicator organism values in estimation of exposure risk at recreational coastal sites</i> – DL Craig, HJ Fallowfield & N Cromar (Australia)
	0900	Paper 9: <i>Impacts of urban discharges on the health-related microbiological quality of untreated surface water: can catchment management solve this problem?</i> – M Griesel & P Jagals (South Africa)
	0930	Paper 10: <i>Estimating the risk from pathogens with the Lake Burrator catchment</i> – C Ferguson, P Cox, N Ashbolt & D Deere (Australia)
	Session 5:	<u>Disinfection</u>
	1100	Paper 11: <i>Application of Bacillus subtilis spores as a measure for the efficacy of water disinfection processes</i> – R Sommer, W Pribil, S Pfleger, P Gehringer, H Eschweiler, A Cabaj & T Haider (Austria)
	1130	Paper 12: <i>Determination of pyrimidine dimers in the genomic DNA of Escherichia coli during photoreactivation following inactivation by medium-pressure UV lamp</i> – K Oguma, H Katayama & S Ohgaki (Japan)
	1200	Paper 13: <i>Chemical disinfection and safe storage of household drinking water in developing countries to reduce waterborne disease</i> – MD Sobsey, TR Handzel & LV Venczel (USA)
	Session 6:	<u>Genotyping of Giardia and Cryptosporidium</u>
	1430	Paper 14: <i>Genetic analysis of Cryptosporidium oocysts and Giardia cysts in surface water</i> – L Heijnen, B Wullings, B Nota & G Medema (the Netherlands)
	1500	Paper 15: <i>Genetic characterisation of Giardia and Cryptosporidium isolates from humans and dairy cattle in the Waikato region of New Zealand</i> – G Ionas, JJ Learnmouth, AB Pita, RS Cowie & KA Ebbett (New Zealand)
	Session 7:	<u>Recreational water quality –2</u>
	1630	Paper 16: <i>The occurrence of Cryptosporidium oocysts and Giardia cysts in Dutch swimming pools</i> – FM Schets & GB Engels (the Netherlands)
	1700	Paper 17: <i>The ecology of indicator bacteria at the beach</i> – GD Lewis (New Zealand)
	1730	<u>Presentations for alternative Group Symposia venues</u> (tentative)
Wednesday April 10th	Session 8:	<u>QRA and modelling</u>
	0830	Paper 18: <i>An assessment of candidate viruses for harmonised risk assessment of water-related microbiological hazards</i> – JC Vivier, MM Ehlers, J Van Heerden, JME Venter, MB Taylor & WOK Grabow (South Africa)
	0900	Paper 19: <i>Quantitative risk assessment of Cryptosporidium and Giardia in surface water treatment systems</i> – GJ Medema, WAM Hijnen & PJ Nobel (the Netherlands)
	0930	Paper 20: <i>Artificial Neural Network modelling: a summary</i>

		of successful applications relative to microbial water quality – GM Brion & S Lingireddy (USA)
	Session 9:	Protozoan parasites
	1100	Paper 21: Release of <i>Cryptosporidium</i> and <i>Giardia</i> from dairy calf manure – JF Schijven, SA Bradford & S Yang (the Netherlands)
	1130	Paper 22: A chemiluminescent immunofocus assay (CIFA) for non-microscopic enumeration of <i>Cryptosporidium parvum</i> infectivity in cell culture – OD Simmons & MD Sobsey (USA)
	1200	Paper 23: Predation of <i>Cryptosporidium</i> oocysts by protozoa and rotifers: implications for water quality and public health – R Stott, E May, E Ramirez & A Warren (UK & Mexico)
	Session 10:	Transmission routes
	1430	Paper 24: Hepatitis E virus (HEV) transmitted by faecal contamination in non-endemic areas – P Clemente-Cesares, S Pina, M Buti, R Jordi, M Cotrina, M Martin & R Girones (Spain)
	1500	Paper 25: Elucidation of potential transmission routes of <i>Campylobacter</i> in New Zealand - M Savill, A Hudson & M Devane (New Zealand)
	Session 11:	Bacterial studies
	1630	Paper 26: Detection, enumeration and isolation of strains carrying the <i>stx2</i> gene from urban sewage – AR Blanch, C Garcia-Aljaro, M Muniesa & J Jofre (Spain)
	1700	Paper 27: Comparison of culture and Equate Water Test for detecting <i>Legionella</i> in cooling towers – YE Lin, FD Sidari III & JE Stout (Korea & USA)
	1730	Paper 28: Microbial quality of irrigation water used in the production of produce in Arizona – KR Riley, R Meer, F Valle & CP Gerba (USA)
Thursday April 11th	Session 12:	Viral studies
	0830	Paper 29: The development of a quantitative RT-PCR assay for detection of Norwalk-like virus in wastewaters and its application to studies on virus removal during sewage treatment - K Henshilwood, L Cross & D Lees (UK)
	0900	Paper 30: Comparative survival of <i>Cryptosporidium</i>, coxsackie A9 virus and <i>E coli</i> in stream, brackish and sea waters – AM Nasser, N Zaruk, L Tenenbaum & Y Netzan (Israel)
	0930	Paper 31: Effects of storage on the inactivation of bacteriophage MS2 by chemical disinfectants – DE Huffman, B Barbeau, MS Chandrakanth, M Prevost & JB Rose (USA & Canada)
	Session 13:	Bacterial studies
	1100	Paper 32: Laser scanning detection of FISH-labelled bacteria from water samples – A-S Lepeuple, K Delabre & M-R de Roubin (France)

	1130	Paper 33: <i>Antibiotic selective pressure for the maintenance of antibiotic-resistant genes in coliform bacteria isolated from the aquatic environment</i> – JC Park, JC Lee, HS Joo, WB Lee & WK Lee (Korea)
	1200	Paper 34: <i>Temporal variations in Legionella concentrations in cooling water systems and their implications for risk assessment</i> – R Bentham (Australia)
	Session 14	Microbiology in the developing world
	1430	Paper 35: <i>Water quality problems associated with intermittent water supply</i> – S Tokajian & F Hashwa (Lebanon)
	1500	Paper 36: <i>Microbiological aspects of an urban river used for unrestricted irrigation in the semi-arid region of north-east Brazil</i> – BSO Ceballos, NE Soares, MR Moraes, RMR Catão & A Konig (Brazil)
	1530	Paper 37: <i>Water Safety Plans (WSP) for small systems: a model for applying HACCP concepts for cost-effective monitoring in developing countries</i> – G Howard (UK)
	1600	Close of Symposium
Friday April 12th		WHO Seminar (see below)

WHO SEMINAR – UPDATE ON GUIDELINES FOR DRINKING WATER, WATER REUSE AND RECREATIONAL WATER

A special seminar has been organised as part of the IWA World Water Congress on **Friday 12th April** at Melbourne

The primary focus of the seminar will be to:

- present an overview of progress of the 3rd Edition of the Guidelines for Drinking Water Quality due for release in 2003
- provide an update of the wastewater reuse guidelines
- provide an update on the WHO Guidelines for Recreational Water

The development and revision of WHO guidelines is an on-going process and includes the preparation of supporting documentation to direct guideline development. This seminar will also provide an opportunity to consider a number of these supporting documents, including:

- Water Safety Plans – the Hazard Analysis and Critical Control Point approach to managing drinking water safety
- Household Treatment of Drinking Water – the fastest way to reduce the global burden of water-related disease?
- Indicators and tests for drinking water quality in a risk management approach
- Managing groundwater for health
- Chemicals of concern – how to identify tomorrow's arsenic?

- Urban drinking water monitoring
- Harmonising risk assessment and risk management for water-related disease

The full day seminar will feature presentations by local and international speakers coordinated by Dr Jamie Bartram, Coordinator the WHO Water Sanitation and Health Programme. This seminar is an excellent opportunity for water professionals and the health sector to discuss the future direction of WHO guidance with some of the world's leading water quality experts.

Further details expected soon.

2004 and 2006 SYMPOSIA – ALTERNATIVE ARRANGEMENTS?

One of the most important decisions to be made at the Melbourne Symposium is the venue of the 2004 meeting of the Group. The IWA Congress is due to be held in Marrakesh, Morocco in September 2004. Now, IWA has announced that the 2006 Congress will be held in Beijing, Peoples' Republic of China. How do members feel about this?

There has always been a willingness to hold Symposia away from the main IWA biennials because of (a) cost (a major consideration particularly with escalating registration fees), (b) loss of identity by dilution and (c) lack of intimacy of the smaller type of meeting where all delegates can be located close together throughout the duration of the meeting.

It seems that, as the IWA Congresses progressively grow, the perceived associated problems for the Group will become even more pronounced. The holding of our own meetings away from the Congresses does allow more control of our own destiny, gives us greater flexibility in organisation and can lead to substantially lower costs. In order to be able to follow this route, it is necessary that Group members come up with positive suggestions on venues, costings, financial support etc that can maintain the excellent reputation that Group Symposia have had over the years. Your first chance is for 2004 where it has already been suggested (at Berlin) that a separate Symposium may be a good idea.

If you wish to propose a different venue please let the Group Secretary know. You should then prepare a 10 minute presentation to be given to the Group (details of when later) at Melbourne. This should contain some idea of likely costs for delegates.

**INTERNATIONAL SYMPOSIUM ON WATERBORNE
PATHOGENS**
Lisbon, Portugal September 22-25, 2002

The announcement and call for papers for this joint IWA-AWWA conference has been published and, if you have not received this information, it is available now at www.awwa.org/02iswp.

The deadline for receipt of extended abstracts is now **15th February 2002**

WALKERTON OUTBREAK OF *E COLI* O157

Part 1 (which is extremely detailed) of the final report is now available on the web at www.walkertoninquiry.com. Part 2, to complete the document, is not too far behind. Don't forget you can hear about this outbreak at Melbourne!

HPC CONFERENCE

NSF and WHO are co-sponsoring a Symposium on the public health implications of heterotrophic bacteria in drinking water supplies to be held in Geneva 22-24 April.

Full details are available at www.nsf.org/conference/hpc or alternatively at www.environmental-center.com/events/nsf-hpc2002.htm

IWA WATER KNOWHOW

IWA Foundation would like to hear from you! They are seeking volunteers who are willing to help answer technical queries that reach the IWA London office from many parts of the world. This is to be offered as a service to water professionals in lower income countries who frequently are unable to subscribe to the Association's journals or attend its conferences but who still seek help in dealing with their own regional technical problems. This service will be known as "*IWA Water KnowHow*".

Where particular issues arise, which are both important and of wide-spread concern, the Foundation would set up Task Forces to address the issue and produce a report or statement of best practice on the issue. IWA Know How will not be a consultancy service. Time-consuming questions will be declined or referred to consultants who have expressed an interest in supporting the service. All answers will carry a caveat that all are given in good faith with the end recipient being solely responsible for the use of the information in the local context.

If you wish to colunteer or to find out more about this IWA initiative please visit <http://www.IWAFoundation.org> or contact the Director of the Foundation (Nick King) at nick.king@iwahq.org.uk

Please send any comments, queries, notes etc for the Newsletter to:

Also, it would be appreciated if responses to scientific queries be copied to the Newsletter so that a database of information can be set up for future reference.

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Next issue: March 2002

Deadline for contributions is February 25th!