

**BRITISH HYDROLOGICAL SOCIETY**

**International Conference  
on**

**HYDROLOGY: SCIENCE & PRACTICE  
FOR THE 21<sup>ST</sup> CENTURY**

**12-16 July 2004**

**London  
United Kingdom**



British  
Hydrological  
Society

**Second Circular**

**Co-Sponsors**

UNESCO

World Meteorological Organization

International Association of Hydrological Sciences

Thames Water Utilities

Environment Agency of England and Wales

Scottish Environmental Protection Agency

Department of International Development (DIFD)

American Geophysical Union

Centre for Ecology and Hydrology Wallingford, UK



## **Purpose**

This International Conference will bring together hydrologists from the UK and overseas concerned with the scientific and practical challenges in understanding and managing hydrological systems during the new century. Issues to be faced include the growing world population (particularly with the increasing number of Megacities) and the commensurate demand on limited water resources, and the potential impacts of climate change on both catchment hydrology and associated ecosystems. Hydrologists will be presented with immense challenges, including the need to develop better understanding of complex hydrological process, more cost-effective and comprehensive data collection capabilities and improved analysis tools to assimilate and interpret hydrological data. The Conference will provide a forum for the discussion of advances relating to the quality, as well as the quantity, aspects of the hydrological cycle, the progress of hydrology as an interdisciplinary science, and the challenge of meeting the targets set in Johannesburg for provision of safe water and poverty alleviation

## **Publications**

All papers presented orally at the meeting will be pre-published in two hardback volumes by BHS. A list of papers and posters accepted for presentation at the conference is included in this circular

## **Venue**

The Conference will be held at Imperial College, South Kensington. The College is situated in the heart of the West End of London, amid various national museums, parks and historic buildings. London's wide ranges of theatres, historic sites and shops are also within easy reach. London enjoys a mild climate with generally fine weather in July and an average temperature of 18°C.

## **Language**

The official language of the Conference is English. No simultaneous translation will be available

## **Exhibitions**

There will be exhibitions running during the conference, presenting the most up-to-date hydrological instrumentations and software.

## **Travel and accommodation**

There are good links to the College from all major airports, railways and motorways. Delegates will be expected to make their own travel arrangements.

Details of travel to the College are provided on the conference web site:

([www.hydrology.org.uk/BHS2004/](http://www.hydrology.org.uk/BHS2004/)).

Superior quality accommodation is available on the South Kensington campus in modern, well-equipped study bedrooms with en-suite facilities. Double rooms are also available. All campus accommodation is within easy walking distance of the Conference venues. Delegates can also choose to use local hotel accommodation.

## **Accommodation**

Accommodation is being organised by Imperial College London Conference Link. Bookings can be made via the conference web site or directly through the Conference office.

Tel: +44 (0) 20 7594 9494

Fax: +44 (0) 20 7594 9504

Email: [conferencelink@imperial.ac.uk](mailto:conferencelink@imperial.ac.uk)

## **Accompanying persons**

An accompanying person's programme is being arranged which includes 1, 2, and 3 day passes to a wide range of sites and venues in and around London.

## Social events and visits

Social events will include a welcome reception on Monday, an evening "flight" on the London Eye on Tuesday and a Conference Banquet, held in the Science Museum, on Thursday.

In addition, a set of visits to sites of scientific and historical interest is being arranged for the Wednesday afternoon (14 July). These are:

- A. Pang-Lambourn experimental catchment Located in Berkshire (about 60 km from central London), these rivers are part of a major UK research initiative (LOCAR) into the behaviour of permeable catchments.
- B. Windsor-Maidenhead-Eton Flood Alleviation Scheme: The Jubilee River. A 12 km relief channel for the River Thames (opened in 2002) providing flood protection for around 5,550 homes, along with businesses, transport infrastructure and services for the above historic towns.
- C. Thames Barrier: London's primary control for flood defence. A series of 10 moveable gates, which can be closed in response to sea surge conditions, such as occurred during 1953, located near Woolwich in the East End of London.
- D. Barnes Wetland: The largest constructed city wetland wildlife reserve in Europe. Located in west London about 5 km from the College.
- E. Windsor Castle: The official residence of The Queen and the largest occupied castle in the world. It has been a royal palace and fortress for over 900 years.
- F. Hampton Court: A royal palace dating back to the 1520s. Its Tudor buildings, surrounded by 60 acres of garden and 750 acres of park, are among the most important in existence. The interiors are enriched by a magnificent collection of furniture, pictures and tapestries.

## Conference Fees

The full conference fee is £395 (prior to 31 March 2004), and includes access to all technical sessions, daily refreshments, one nominated volume of the two-volume bound proceedings, the welcome reception on Monday, the Tuesday evening trip, one of the Wednesday afternoon site visits and the Conference dinner (please note other evening meals are not provided). The fee for delegates registering after 31 March 2004 is £445. Registrations on arrival at the conference will be accepted.

Part-attendance at the Conference is available at a fee of £200 per day.

Accommodation will be charged separately. Conference fellowships will be available to assist a limited number of young/overseas delegates: Priority will be given to authors.

## Postgraduates students

The registration fee for *bona fide* full-time postgraduate students is £200 (and does **not** include the conference dinner or hard bound proceedings). A postgraduate student day rate of £100 is also available.

## Conference fellowships

A number of fellowships are available to enable people from developing countries and young UK hydrologists to participate. Priority will be given to those presenting papers and those who can meet part of the cost themselves. The completed application form for fellowships (at the end of this brochure) must be completed and returned by 30<sup>th</sup> November 2003.

## Refund policy

Cancellations must be notified to the conference organisers in writing. Refunds cannot be guaranteed after 31 March 2004. Participants are therefore encouraged to invest in an appropriate insurance policy.

## SCIENTIFIC PROGRAMME (for guidance only: details subject to change)

### Theme 1: (16 July)

## Global hydrology and impact of global change

#### Convenors:

Prof. Jim Shuttleworth *University of Arizona, USA*

Prof. Nigel Arnell *University of Southampton, UK*

Dr. Peter Cox *Met Office Hadley Centre, UK*

Nick Reynard *Centre for Ecology and Hydrology Wallingford, UK*

### Oral papers

- V. Alexandrov*: The effect of climate variability and change on water resources in Bulgaria
- N. Chappell*: Evaluation of hydrological (rainfall-runoff and evapotranspiration) components of GCM simulations of humid tropical processes in SE Asia
- D. Collins*: Climatic variation, glacierisation and runoff from high Alpine basins
- A. Dassargue*: Spatially distributed and physically based modelling for simulating the impact of climate change on groundwater reserves
- A.K. Eldaw*: Teleconnections among large-scale climatic forces, the hydrology of the Nile River, Indian summer monsoon, and West African summer monsoon
- F. Farquharson*: The impact of climate and sea level changes on floods and water resources in the Indian sub-continent
- H. Fowler*: Future increases in UK water resource drought projected by a regional climate model
- L. Garrote*: An analysis of the sensitivity of regulated basins to climate change
- D. Gerten*: Assessment of green water fluxes with a dynamic global vegetation model
- P. Kumar*: Roles of recycling and memory in the variability of the hydrologic cycle
- D. Hannah*: Linking river flow and precipitation regimes for Himalayan basins of Nepal: Assessing potential hydrological impacts of climate change
- C. Ikhile*: The impacts of climate change on water discharge of some tropical streams in South-western Nigeria
- A.D. Khan*: Climate change and its impact on water resources and crop production of Pakistan
- S. Morid*: Modeling Zayandeh Roud basin under climate change
- E. Pinto*: Southern oscillation-precipitation relationships over the Upper Sao Francisco River Basin, in southeastern Brazil

- D. Viviroli*: Mountains: essential water towers for a thirsty world
- P. Whitfield*: Recent and Future Climate Driven Variations in Low Flows of Rivers and Streams in South Central British Columbia, Canada

### Posters

- M. Abdellah*: Impact of the precipitation reduction on resources waters in Northern Algeria
- H. Aksoy*: Analysis of climate change in European part of Turkey and Bulgaria
- A. Babkin*: Climatic conditions, moisture, water balance and lakes of endorheic areas of south-eastern Kazakhstand in the late Pleistocene and Holocene
- V. Babkin*: Genesis and content of the Siberian rivers runoff
- M. Fasona*: An Evaluation Of Rainfall Changes In The Sudan-Sahel Region Of Nigeria
- N. Fedoseeva*: Variation in temperature of Atlantic Ocean surface water and moisture regime of Eurasia in the XX century
- T. Harrold*: Validation of the “daily pattern of change” approach to downscaling GCM rainfall
- A. Kane*: Climate Change And Flood Monitoring In The Senegal River Estuary
- V. Lobanova*: Space-Time Scaling in Hydrology and Impact of Global Change
- L. Menzel*: Regional differences of climate change impact in Germany
- K. Narayan*: Impacts of sea level rise due to Climate Change on coastal aquifers & rivers of Guyana
- N. Samani*: Climate change in north and southwest of Iran from precipitation observations
- V. Semyonov*: Climate-related changes in the mountain river runoff of the Northern and Central Eurasia
- K. Sharma*: Trends in Hydrological Extremes in relation to Climatic Changes in Nepal
- A. Shmakin*: Large-scale estimates of hydrological impact of possible climate change in Northern Eurasia
- T. Skaugen*: Adjustment of dynamically downscaled temperature and precipitation data in Norway
- D. Zlatunova*: Climate change influence on water recourses of Bulgaria

## SCIENTIFIC PROGRAMME (continued)

### Theme 2: (12-15 July)

### Hydrology of extremes

#### Convenors:

Prof. Dan Rosbjerg *Technical University of Denmark*

Dr. Christian Onof *Imperial College London, UK*

Dr. Rob Lamb *JBA Consulting, Skipton, UK*

Prof. Ian Cluckie *University of Bristol, UK*

#### Oral papers

- B. Abdelkader:* Influence of antecedent precipitation index on the hydrograph form
- P. Adamson:* The Multivariate analysis of floods and flood risk: applications to the Mekong in Cambodia and Vietnam
- A. Altunkaynak:* Autorun Persistence Of Hydrologic Design And Dependent Risk Maps
- A. Benkhaled:* Influence of antecedent precipitation index on the hydrograph form
- D. Biondi:* On the simulation of saturation excess runoff in a southern Italy catchment
- D. Biondic:* Flood Wave Volumes In The Danube River Basin In Croatia
- G. Calenda:* Distribution of the extreme peak floods of the Tiber River from the XV century
- M. Chang:* The Spatial Variation for Floods with Return Periods Greater than 100-Year in the Conterminous United States
- S. Chavoshi:* Regional flood frequency analysis using L-moments (A case study: North Karoon/Iran)
- C. Clark:* The use of historic flood events to estimate extreme rainfall in Britain
- I. Cordery:* Hydrological models in a non stationary environment
- N. Dahal:* Hydrological Extremes In The Lower Himalaya: An Ecological Perspective
- E.M. Douglas:* The Behavior of the Flood of Record in the United States
- A. Gutierrez Lopez:* Hydrological Forecast Using The Double Index Flood Method
- U. Haberlandt:* Spatial interpolation vs. simulation of precipitation for rainfall-runoff modelling
- C. Harpham:* Multi-site simulation of daily precipitation amounts using artificial neural networks
- S. Isiorho:* Applications of Hydrogeologic settings in Groundwater vulnerability mapping In La Grange County, Indiana
- T. Kjeldsen:* Revitalisation of the FSR/FEH Rainfall-Runoff Method
- D. Koutsoyiannis:* Exploration of long records of annual maximum rainfall and design rainfall inferences
- J. Kysely:* Regional analysis of extreme precipitation events in the Czech Republic
- F. Laio:* Peak Over Threshold analysis of mechanisms relating flood and rainfall frequency curves
- M. Lang:* Use of a statistical test based on Poisson process for the detection of trends in peak-over-threshold series
- H. Lange:* Long-term components and regional synchronization of river runoffs
- D. Lekkas:* A simple scheme for continuous flow simulation
- N. Mandeville:* The Reservoir inflow sequence (RIS) method of hydrograph analysis applied to a set of 25 flood events observed on a catchment located in western United Kingdom
- C. Manusthiparom:* Long-term hydro-climatic prediction using the influence of El Niño-Southern Oscillation on rainfall and streamflow in Thailand
- A. McKerchar:* The recent past: a guide for the future?
- A. Moaven-Hashemi:* Seasonal variations of monthly rainfall maxima and their impact on the shape of the annual maximum flood frequency curve
- I. Muzik:* Red Deer Lake restoration project: A case study
- R. Nathan:* On characterising the risks of extreme events
- P. Northrop:* Information sharing models for flood frequency estimation
- C. Onof:* Comparative assessment of mean and extreme value performance of point rainfall models
- B. Panigrahi:* Economic analysis of flood forecasting system in the flood plain of Brahmin of Orissa
- J. Raynal-Villaseñor:* A Bivariate extreme value model for flood modelling
- D. Reed:* A thematic investigation of British floods: 1846 to 2000
- A. Selenica:* Risk assessment from floodings in the rivers Of Ibania
- H. Shizuo:* The duration precipitation method for assessing the drought hazard
- J. Smithers:* The estimation Of design rainfalls for South Africa using a regional scale invariant approach
- C. Svensson:* Sensitivity to storm track of the dependence between extreme sea surge and river flow around Britain
- M. Tu:* Change in the extreme peak discharge of the Meuse river over the last century
- A. Werritty:* Improved estimates of flood risk based on proxy flood series on the lower river Tay, Scotland
- S. White:* Extreme flows and their influence on sediment transport
- C. Yuenfang:* A new weighted function moment method based on L-moment or Pearson-III distribution

## SCIENTIFIC PROGRAMME (continued)

### Posters

- C. Achite*: Characterization of flood in semiarid area. Case of Wadi Mina catchment (Northern West of Algeria)
- N. Agaltseva*: Early warning system of drought
- M. Ashiq*: Should a river be treated as two different channels after the extreme flood events
- S. Bernard*: Rainfall intensity-duration-frequency analysis in cote d'ivoire
- S. Chavoshi*: Study on hydrological homogeneity of the catchments (a case study: North Karoon / Iran)
- J. Cullen*: Review of flood management of the river Dee, North Wales
- C. de Jong*: Hydrology of extremes along an extensive altitudinal gradient in Southern Morocco
- K. Dixit*: Arsenic Pollution in groundwater of Nepal Tarai
- T. Fashchevskaya*: Probability-statistical analysis of the Belaya river water quality extremes in industrial centers
- P. Gupta*: Certain hydrological characteristics for coal mining watershed of Jharia coal field, district Dhanbad (India).
- B. Hoque*: Drinking water security in arsenic and salinity affected area: A case study from Bangladesh
- K. Kumar*: Meltwater discharge (Q), EC and pH variations of Gangotri Glacier, Garhwal Himalaya, India
- H. Lange*: Correlated extreme events in hydrological records
- D. MacDonald*: Mangla reservoir - reappraisal of design flood
- F. Mannocchi*: An analysis of new agricultural drought parameters
- V. Manukalo*: The mathematical modeling of spring runoff in the catchments for purpose of spatial forecasting in a river basin
- T. Mathevet*: Designing an hourly lumped conceptual rainfall - runoff model
- R. Mungra*: Mauritius experiences the drought of the century during summer 1998-99
- M. Naghettini*: Incorporating the areal-reduction factors to the intensity -duration frequency relationship of storms - case study: Metropolitan region of Belo Horizonte, Brazil
- S. Nandargi*: Extreme flood events experienced by Indian rivers
- K. Narayan*: Effects of Droughts on water resources in the Caribbean
- G. Old*: Towards early warning of jökulhlaups and prediction of their peak flows and volumes
- T. Ologunorisa*: Rainfall flood prediction in the Niger Delta
- M. Perumal*: Applicability criterion for the variable parameter Muskingum flood routing method
- J.M. Pickles*: Forensic hydrology; investigations into the flow record and flood frequency for York
- A. Pokhrel*: Glacier lake outburst flood management
- G. Qianzhao*: Runoff of the Upper Yellow River above Tangnag: Characteristics, evolution and changing trends
- A. Rahman*: Identification of hydrological homogeneous regions in South-east Australia using multivariate statistical techniques
- R. Ristic*: Extreme discharges on torrential catchments in Serbia
- H. Rodda*: The application of hydrology in the insurance industry: flood risk modelling in the Czech Republic
- A. Schumann*: Flood statistics- between computer based euphoria and data based desperation
- M. Segond*: Spatial-temporal characteristics of extreme rainfall
- E. Semakova*: The assessment of snow cover depth with different probability and snow avalanche loads (GIS - based experience of 1:10000 scale mapping for mountainous basin of Western Tien-Shan)
- M. Shrestha*: Natural disasters in the Himalayas: A case study of Tsho Rolpa
- M. Stastna*: Impact of various drought patterns on simulated crop growth and yield in a semi-arid agricultural region in central Europe
- M. Tournoud*: Flow-quality relationships along a small Mediterranean river : contribution of diffuse and point source pollutions
- P. Ward*: Soil water and groundwater responses to a large rainfall event under contrasting vegetation types on a sandy soil.
- S. Wickramasuriya*: Assessment of adequacy of spillways for dam safety and reservoir conservation in Sri Lanka

## SCIENTIFIC PROGRAMME (continued)

### Theme 3: (12-15 July)

### New techniques in hydrology (incorporating advances in modelling and data assimilation and new methods of hydrological observations)

#### Convenors:

#### (A) Advances in modelling and data assimilation

Prof. Keith Beven *University of Lancaster, UK*

Neil McIntyre *Imperial College London, UK*

#### (B) New methods of hydrological observations

Prof. Jeff McDonnell *Oregon University, USA*

Prof. Robert Gurney *University of Reading, UK*

### Oral papers

#### (A) Advances in modelling and data assimilation

*H. Aksoy*: Wavelet analysis for hydro-meteorological data simulation

*P. Bogaart*: On the use of soil-landscape evolution modelling in understanding the hillslope hydrological response

*A. Butler*: An investigation into the long-term behaviour of a UK Chalk catchment

*L. Camacho*: Proposed methodology for the implementation, calibration, and effective application of a river water quality model – River Bogotá study case (Colombia)

*C. Collier*: Assessing error in hydrological and hydraulic model output flows

*C. Dilks*: Evaluation of a model benchmarking procedure through application of the soil and water assessment tool to the Ythan catchment, UK

*S. Dunn*: Modelling controls on spatial variability in stream nitrate concentrations

*R. Funke*: Quality assurance for hydrometric network data

*R. Herrmann*: Integrated aquifer characterization and numerical simulation for aquifer recharge and storage at Marco Lakes, Florida

*A. Hope*: Uncertainty in monthly river flow predictions in a semi-arid shrubland catchment

*J. Kaluarachchi*: Use of Geographic Information System-based groundwater quality modelling for minimizing nitrogen pollution at a large watershed

*U.C. Kothiyari*: Estimation of hydrologic variables for ungauged catchments using artificial neural networks

*G. Lischeid*: Let the data build the model: Optimising the structure of hydrochemical models using advanced methods of non-linear data analysis

*S. Mathias*: Application of the aggregated dead zone model in densely fractured porous media

*N. McIntyre*: Regionalisation of rainfall-runoff models in the UK

*R. Moore*: The HarmonIT project - model linking

*M. Mukto*: Short term river water level forecasting using artificial neural network

*L. Nandagiri*: Stochastic framework for synthesis of catchment runoff using scaling techniques

*N. Nascimento*: Development and evaluation of a short-term forecasting method based on assimilation of rainfall-runoff simulation errors

*A. Rahman*: Modelling spatial variability of flood-producing variables in the joint probability approach of design flood estimation using a semi-distributed hydrological model

*R. Romanowicz*: Data assimilation in the identification of flood inundation models

*H. Roux*: Data assimilation applied to hydraulic parameter identification

*S. Samanta*: A parameterization scheme for quantifying canopy conductance from EOS-Era remotely sensed data

*B. Schaffli*: Improved calibration of hydrological models: use of a multi-objective evolutionary algorithm for parameter and model structure uncertainty estimation

*J. Seibert*: Hydrological modelling based on DEM-based analysis of landscape organization – towards upscaling of experimental knowledge

*A. Shamseldin*: Development of a river flow forecasting model for the Blue Nile River using Takagi-Sugeno-Kang fuzzy systems

*A. Sharma*: Model averaging and its use in probabilistic forecasting of hydrologic variables

*Z.F. Toprak*: Predicting longitudinal dispersion coefficient in natural streams by fuzzy-logic approach

*P. Torfs*: Application of density descriptions by Gaussian mixtures in hydrology

*N. Usul*: Investigating the effects of scale and grid size in hydrologic studies

*J. Vrugt*: Towards improved calibration of hydrologic models: inferring the probability distribution of model structures errors

*T. Wagener*: Stochastic formulation of a conceptual hydrologic model

*W. Werkman*: Modelling the impact of climate change and land subsidence on the hydrological systems in the Netherlands

## SCIENTIFIC PROGRAMME (continued)

*P. Young:* Identification And Estimation Of Continuous-Time Hydrological Models From Discrete-Time Data

### (B) New methods of hydrological observations

- S. Abdalla:* Latent Heat Flux Mapping Using Airborne Remote Sensing Energy Flux Approach
- R. Adams:* Modelling of hillslope erosion from New Zealand pasture using a rainfall simulator
- A. Armstrong:* On the Applicability and Selection of Manning's  $n$  for Mountainous Streams
- C. Collier:* On the assessment of flash flood impacts through the use of rainfall measurements from dual frequency microwave links and energy and water balance
- G. D'Urso:* Synergistic employ of remote sensing data in visible and infrared ranges for the application and validation of distributed hydrological models in irrigated areas
- L. Goda:* RDI ADCP-s in the discharge measurement in Hungary
- S. Hasan:* Time series analysis of in-situ gravity data in the context of hydro-meteorological variability
- B. Hornbuckle:* Radiometric Sensitivity to Vegetation Canopy Water Content Relative to Soil Moisture at 1.4 GHz
- R. Kharbuja:* A simplified procedure for sediment monitoring – reducing gaps in sediment information
- A. Pandey:* Watershed Prioritization Using Usle, Gis And Remote Sensing
- L. Lichner:* New devices and techniques for hydrological observation
- R. Quimpo:* Runoff Prediction for Small watersheds with Incremental Radar Rainfall Data
- A. Rango:* Integrating Two Remote Sensing-Based Hydrological Models and MODIS Data to Improve Water Supply Forecasts in Rio Grande Basin
- P. Rodgers:* Intergrating tracers and GIS to assess the influence of landscape heterogeneity on runoff processes in complex mountainous catchments
- T. Skaugen:* Determining runoff dynamics based on geometry of basins and flow velocity
- S. Uhlenbrook:* What can be learnt by basin inter-comparison of two series of nested basins using similar tracer experiments and the same catchment model?

- O. Chebanov:* One approach to simulate the surface retention dynamics
- J. de Araújo:* Modelling Of Reservoir Sediment Retention In Semi-arid Environment
- B. Debele:* Modeling the hydrology of the watershed for better understanding and implementation of integrated watershed managements
- E. Ellouse-Gargouri:* Monte Carlo Simulation Of Effective Rainfall And Runoff Prediction With Giuh
- H. Galgale:* Model for Computation of Watershed Morphologic Characteristics using GIS
- G. Gergov:* Complex hydrological information - source gnosis
- Y. Hafez:* A Flow Balance Model For The Nile Basin
- D. Hajdukovic:* Vancouver sewerage area modelling: Gis database incorporation
- M. Hauhs:* An alternative to both empirical and process-based runoff models: Interactive hydrology
- E. Hosseinipour:* Development of a Regional Integrated Surface-Ground Water Model (IHM) for Optimal Management of Water Supply Wellfields
- A. Hreiche:* Calibration of a lumped conceptual rainfall-runoff model using an annual runoff coefficient
- N. Islam:* Modelling of variably saturated flow to investigate the effect of cover crop
- M.R. Islam:* An Evaluation Of Hydrologic Forecasting Using Artificial Neural Networking
- V. Khaydarova:* Modelling of Irrigation Water Requirements as a Tool to Mitigate Water Conflict in Central Asian Region
- O. Kisi:* Comparison of neural networks and auto-regressive models in daily streamflow modelling
- B. Koo:* Development of a distributed hydrological model using an object-oriented approach
- M. Kucuk:* The Comparison Of Generated Daily Stream Flow Data Using Wavelet And Markov Models
- V. Livina:* Nonlinear Volatility of River Flux Fluctuations. A stochastic model for river discharge
- H. Lobanova:* General Techniques for Hydrological Data Restoration and Assimilation
- H. Nandalal:* Object-oriented programming in streamflow prediction: flow of Kaluganga River in Sri Lanka
- S. Nii Odai:* Prediction of open channel flow rate and arrival time using small perturbation model
- M. Paris:* Hydrological modelling of extreme maximum flows Application into arroyo feliciano basin (provincia de entre ríos, Argentina)
- J.L. Perrin:* Application of a generalized TOPMODEL concept to the Rumihurcu high altitude volcanic catchment, Quito, Ecuador
- G. Poveda:* Linking long-term water balances and scaling towards regionalization of peak and low flows in Colombia: Introducing HidroSIG Java
- V. Rajasekaram:* An integrated water resources assessment model for Canada

## Posters

### (A) Advances in modelling and data assimilation

- M.F. Bari:* Stochastic model of flow duration curves for selected rivers in Bangladesh
- M. Bari:* Water And Salinity Modelling Of Catchment And Lake Systems In The South-West Of Western Australia

## SCIENTIFIC PROGRAMME (continued)

- M. Ruiz*: Assessing the spatial and temporal variability of the water level in a karst watershed
- K. Sharma*: Rainfall-Runoff-Groundwater Dynamics in Semi-arid Regions
- S. Shrestha*: Hydrological Modelling of South Creek Catchment, New South Wales
- F. Stagnitti*: Perspectives in Modelling Preferential Solute Transport in Vadose Zone Experiments
- G. Tayfur*: Intelligence Models to Predict Runoff
- R. Teegavarapu*: Estimating Evapotranspiration using Artificial Neural Networks
- Z.F. Toprak*: Forecasting Daily Streamflow Using Fuzzy-Logic
- M. Yilmaz*: Finding Synthetic Unit Hydrograph of a Basin by Geographic Information Systems
- (B) New methods of hydrological observations**
- M. Dale*: Spatial characteristics of rainfall - impacts on flood hydrology
- R. Dutton*: Hyporheic Exchange Of Solutes In Open Channels
- G. Fourquet*: River survey using numerical video
- M. Hafeez*: Mapping of actual evapotranspiration at regional scale using NOAA/AVHRR satellite images
- S. Islam*: Estimation of Evapotranspiration Over Large Areas Using Remote Sensing Observations
- G. Keve*: Investigation of ice phenomena on the Hungarian Danube Reach
- T. Koybashi*: Irrigation experiments at a JST experimental field in the Yellow River Basin, Inner Mongolia, China
- L. Lichner*: Cadmium Transport in Structured Soil – Measuring and Modelling
- M. Majdzadeh Tabatabai*: Application of RS and GIS to determine flood zone mapping in Damavand River, Iran
- E. Ogunbadewa*: Use Of High Resolution Satellite Data For Hydrological Studies of A River Basin In Nigeria
- T. Ologunorisa*: A technique for the assessment of flood risk
- S. Riley*: Calibration of Large Scale Rainfall Simulators
- S. Sarkar*: Chemical speciation of selenium in seawater by quartz tube hydride generation atomic absorption spectrometry after extraction with tri-iso-octyl amine
- A. Shahabfar*: Simulation of snowmelt runoff in the mountain catchments by using geographical information system (GIS) & remote sensing (RS) techniques
- S. Shrestha*: Erosion Model Calibration Using Large Scale Rainfall Simulator
- V. Shutov*: Distributions of Snow Cover at Different Spatial Scales

- H. Sinclair*: Fluorescent latex polystyrene microspheres: developments in colloid and contaminant tracing
- D. Torri*: Width and discharge in eroding channels
- S. White*: How can we identify source areas in catchments?
- M. Zribi*: Combining radar remote sensing data and topographic analysis for a soil surface moisture disaggregation scheme development

## Theme 4: (12-14 July)

### Interdisciplinary hydrology and its application

#### Convenors:

- Prof. Ignacio Rodriguez-Iturbe *Princeton University, USA*
- Dr. Mike Acreman *Centre for Ecology and Hydrology Wallingford, UK*
- Dr. Denis Peach *British Geological Survey, Wallingford, UK*
- Dr. Mike Bonell *UNESCO Division of Water Sciences, Paris, France*

#### Oral papers

- M. Acreman*: The science behind hydrological functions of wetlands
- N. Aloysius*: Traditional Approach to Rainwater Harvesting and Artificial Recharging of Groundwater in Alwar District, Rajasthan, India
- D. Archer*: New hydrological insights from the analysis of flow variability
- L. Breuer*: Uncertainty in predicting changing water and matter fluxes due to land use change
- L. Brown*: Stream thermal habitat dynamics within an alpine catchment: Implications for benthic communities
- N. Clifford*: Reach-scale river modelling for eco-hydraulic appraisal and rehabilitation design
- N. Coles*: Managing water, the key to preserving biodiversity in the dryland agricultural areas of Western Australia.
- N. Crook*: Identification and quantification of river-groundwater interaction in the lowland Chalk Catchments of the Pang and Lambourn
- T. Davie*: Ridgetops to the sea – developing sustainable management tools in New Zealand's Motueka Integrated Catchment Management project
- C. de la Vina*: Influence of settlement in water quality of Canasí Dam

## SCIENTIFIC PROGRAMME (continued)

- B. Fashchevskys*: Ecological Hydrology as Main Discipline for Water Resource Management in 21 Century
- R. Francis*: The growth response of *Populus nigra* L., *Salix elaeagnos* Scopoli and *Alnus incana* (L.) Moench to varying levels of hydric stress
- C. Gibbins*: Influence of channel hydraulics and sediment mobility on stream invertebrate drift
- D. Goodrich*: The Upper San Pedro Basin: A Case Study of Integration of Science and Decision Making for International Watershed Management
- A. Gurnell*: Hydrochory, river flow regime and riparian vegetation
- Y. Gusev*: Modelling Of Heat, Water And Carbon Exchange Processes Within Boreal Forest Ecosystems: Swap Model
- N. Howden*: Hydrogeological Controls on Groundwater/Surface Water Interactions in a Lowland Permeable Chalk Catchment
- B. Jackson*: Calibration and uncertainty issues arising from a process-based integrated nitrogen model (INCA) placed within a subjective probability framework
- R. Machorro*: Hydro-ecology of Lake Izabal, Guatemala
- I. Malcolm*: Spatial and temporal variability of groundwater -surface water interactions in salmon spawning streams: implications for egg survival and development
- A. Passerat de Silans*: The soil and vegetation role on the hydrology of a semi-arid basin: an experimental study in northeast of Brazil
- G. Qianzhao*: The Ecological Environment Evolution and Rehabilitation under the Exploitation-Utilization of Water Resources in Tarim River Basin
- V. Zemtsov*: Ecoregions and the problem of surface water quality objectives indication in the Ob river basin (Siberia, Russia)
- H.K. Ramaraju*: Impact Of Septic Tank System On Shallow Aquifers And Hydrogeochemical Interactions in Chikballapur Town, Kolar District, Karnataka
- S. Riley*: Performance of Rehabilitation in a Small Urban Creek
- D. Scarpa*: Hydropolitics in Recent Israeli-Palestinian Relations
- N. Schofield*: Consequences of Past Hydrological Disturbance and Emergent Issues for Water Resources in Australia
- L. Swanson*: Toward innovative management of canal systems: Determining fundamental properties governing water quality
- T. Thomas*: Ecohydrology of shola forests in the Western Ghats of Kerala
- Y. Wang*: The eco-water requirement for forest/vegetation restoration and the research needed in Northern China
- B. Webb*: Changing UK River Temperatures and their Impact on Fish Population
- S. White*: Land management and water quality: a case study from Yorkshire
- P. Whitehead*: Integrated Catchment Modelling of Nutrients and Instream Ecology to assist in the management of the WFD
- M. Whiteman*: Local impact assessment near wetlands – from hydrological impact to ecological effects
- P. Yu*: Using GSH Model, a physically-based distributed hydrological model, to simulate ecological and hydrological effects of land-use/land-cover change

## Posters

- S. Akhionbare*: The effect of impoundment on the water chemistry of Ikpoba River, Nigeria
- M. Babel*: Assessment of groundwater potential for irrigation in the Teesta Barrage Project, Bangladesh
- O.B. Bonacci*: Karst Hydrology: An Example for Interdisciplinary Co-operation in Geosciences
- W. Burgess*: Hydraulic and geochemical imperatives for groundwater quality monitoring
- S. Chakravatyr*: Individual access to sustainable supply of potable water
- C. das Neves Almeida*: Conjunctive water resources modelling
- I. Douglas*: The relevance of the integrated catchment research of the LOCAR programme to the European Water Framework Directive
- J. Emery*: Hydraulic variations over a pool-riffle couplet and effects on hydrological exchanges induced between the river channel and floodplain: Afon Llwyd, Plynlimon, Mid- Wales
- I. Fairchild*: Transmission and preservation of climatic signals via karstic hydrological systems
- N. Hulugalle*: Comparing deep drainage estimated with transient and steady state models in irrigated Vertisols
- H. Lin*: Advances in Hydrogeology
- G. Matanga*: Application of an Integrated Hydrology Model to Evaluate Effectiveness of Agricultural Drainage Systems
- J.N. Nayak*: Impact of ecological imbalance on water resources development in Nepal
- N. Pokherl*: Areal precipitation distribution pattern in the Chepe catchment, Nepal
- N. Preedy*: Pathways and mechanisms for phosphorous transfer from grassland
- C. Rodier*: Analysis of flood dynamics using major elements in karstic rivers: evaluation of karst inflows
- L. Rodriguez*: Modelling the impact of changing hydrology in the interaction between ground-water surface water at large scales in Santa Fe, Argentina

## SCIENTIFIC PROGRAMME (continued)

- L. Sigha-Nkamdjou* : Assessment, use and water Resources management in a context of scarcity in Cameroon
- B. Skakalsky*: Principles Of Hydrochemical Study Of River Basins Aimed At Estimation Of Water Masses Genetic And Anthropogenic Activity
- R. Skeffington*: The implications of hydrochemical modelling at different scales for understanding the response of a small catchment to changes in S and N deposition
- S. Solis*: A Study of Travel Time and Longitudinal Dispersion of UK Rivers
- F. Stagnitti*: Sustainable management of industrial wastewater in a aluminum smelter for the controlled reduction of fluoride and nutrient discharge
- J. Stopa*: Computer Simulation Of Underground Storage Of Greenhouse And Toxic Gases
- I. Tindall*: Data Management for the Catchment Hydrology And Sustainable Management (CHASM) Project
- S.J. Watson*: A regional integrated multi-disciplinary approach to the characterisation of turloughs
- S. White*: Managing sediment at the catchment scale
- J. Xia*: Groundwater resources and its effective utilization in arid inland river basins, China
- E. Zemedagegnehu*: Analysis of interaction of Borta reservoir with down stream groundwater system (Dembi Dolo area)
- L. Cobiac*: Risk-based management of water quality in urban watercourses
- A. Davenport*: Managing Urban Rivers
- S. Dent*: Development of an integrated catchment planning system for the urban environment
- J.B. Ellis*: Leaky Sewers Assessing the Hydrology and Impact of Infiltration and Exfiltration in urban Sewers
- J. Koch*: Measurement in sewer Systems
- D. Lerner*: Assessing the potential value of urban groundwater
- M. Moreira*: Design considerations for Infiltration Trenches applied at small villages
- K.S. Murty*: Urban water supply in India : Challenges in 21st Century
- D. Muschalla*: Optimization potential of combined sewage systems
- N. Nascimento*: Development of flood-damage curves for the Brazilian context
- G. Old*: Physical and chemical extremes of the urban river environment
- K. Pandit*: Water Quality In Urban Water Courses: Examples From The Greater Toronto Area (Gta) Of Canada
- S. Rajkumar*: Integrated Approach in Urban water management in a developing country
- V. Rathnam*: Dynamic Programming Model for Optimization of Stormwater Detention Ponds in Multiple Catchment System
- M. Rivett*: Estimation of groundwater-contaminant fluxes to urban rivers
- M. Scholz*: Design, operation and maintenance optimisation of sustainable urban stormwater ponds treating road run-off
- I. Semenova*: Hydroecology of large medium and small rivers on the urban territories in the centre of the European Russia
- O. Shakirudeen*: Hydrology Of Small Urban Environment
- D. Tetzlaff*: Towards hydrological assessment of impacts on flow regimes in urban rivers
- G. Vaes*: The use of design rainfall in the new Flemish urban drainage guidelines
- M.V. Vasconcelos*: Design considerations for Infiltration Trenches applied at small villages
- S. Wallis*: Modelling the flow attenuation performance of retention ponds

## Theme 5: (15-16 July)

### Urban Water

#### Convenors:

Prof. David Butler *Imperial College London, UK*

Prof. Cedo Maksimovic *University of Belgrade/ Imperial College London, UK*

Prof. David Lerner *University of Sheffield, UK*

Prof. Angela Gurnell *Kings College London, UK*

#### Oral papers

- A. Asadi*: Evaluation of impact of landuse/land cover changes on urban water quality using remote sensing , GIS and field studies - A case study from indian sub continent
- D. Brookshire*: Water Consumption: Comparing Consumer Response For Water Demand In And Out Of The Laboratory
- Y. Chen*: An Urban Flooding Forecast Model based on GIS Technique
- B. Chisala*: Evaluating the potential risk of Methyl Tertiary Butyl Ether (MTBE) to urban groundwater

#### Posters

- S. Akhionbare*: The management of water supply operations in Edo State of Nigeria
- V. Anosike*: Water stress and availability in urban private health centres
- E.M. Bouabid*: Protection perimeters of catchment sites in urban areas. Complexity and uses. The Kenitra city perimeter urban case.

## SCIENTIFIC PROGRAMME (continued)

- W. Burgess:* Using environmental isotopes to evaluate sources of contamination to the Dupi Tila aquifer of Dhaka, Bangladesh
- A. Coly:* Water flux management in an urban setting: Yoff's urban river basin
- M. Hoque:* Impact of Groundwater, Overexploitation in Dhaka Metropolitan Area

- M.D. Newson:* Biophysical and social science foundations for integrated catchment management - devices for integration
- K. Olsevicova:* Ontology-based modeling in water management domain
- V. Padmaja:* Integrated study on Shivannagudem watershed using remote sensing and GIS
- S. Parsons:* How Can Hydrological Science Help Meet the Challenges of River Basin Management for the Pripyat River of Eastern Europe?
- F. Phillips:* Agricultural management and salinization of the Rio Grande
- D. Ponce:* Reservoir EXPert (REX): knowledge-based decision support system for water reservoir control
- R. Rahman:* Pro-poor sector strategy for Bangladesh
- D. Ramsbottom:* Catchment Flood Management Planning: Catchment modelling for assessing flood risk and mitigation measures
- A. Saleh:* Effect of Privatisation on Groundwater Irrigation Development in Bangladesh
- U. Sharma:* Integrated catchment management in northeastern region of India to control fluvial sediment transport
- H. Smithers:* Catchment hydrology and sustainable water resources management: experiences in North West England
- S. Stewart:* A decision support system for demand management of the Rio Conchos basin, Mexico
- N. Tellro Wai:* Problematic of Water Resources Management of the Transboundary Basin River of the upper Logone for a Sustainable Development of Sub-Central Africa Region (Cameroon, CAR and Chad)
- H. Thota:* Innovative participatory technologies for catchment management in semi arid tropics of India
- I. Tindall:* The HarmoniRiB project - the effect of uncertainty on catchment management
- A. Tollow:* An alternative approach to resource management with special reference to the Umgeni
- A. Tskhay:* Integrated catchment management based on decision support system use
- S. Walker:* Delivering Environmental Improvements Through Integrated Catchment Management in sub-catchments of the River Dee, NE Scotland
- S. Walker:* Improving Public Participation through the Water Framework Directive: a Comparative Review of Practice
- M. Whiteman:* Groundwater Resources Assessment – A Decision-making Framework to Support Environment Agency Business Needs
- A. Willimas:* The influence of changes in farming patterns on the runoff characteristics of the River Camel, Cornwall, UK.
- G. Woodard:* Factors of domestic water demand in growing cities: Looking beyond population and price

### Theme 6: (15-16 July)

## Integrated catchment management

### Convenors:

- Prof. Hoshin Gupta *University of Arizona, USA*  
Dr. Hilary Smithers *Environment Agency, UK*  
Prof. Enda O'Connell *University of Newcastle, UK*  
Prof. Abdin Salih *UNESCO-IHP, Paris, France*

### Oral papers

- S. Burke:* Strategic Management of non-point source pollution from sewage sludge
- Y. Chen:* An multiobjective optimal water resources allocation model in the perspective of sustainable development
- D. Das:* Past and present perspectives of rainwater harvesting in India with special reference to a case study
- M. Eisele:* Assessment of the human impact on the temporal variability of stream flow in meso-scale river basins.
- A. Forsyth:* The influence of Pinus plantation management on water quality and quantity on the coastal lowlands of south-east Queensland, Australia.
- B. Harris:* Diffuse pollution from agricultural land: The need for integrated catchment management and radical rural land use change
- S. Krause:* Approximation Of Groundwater – Surface Water – Interactions In A Mesoscale Lowland River Catchment
- R. Kumar:* Decision Support System For Regional Water Management In Irrigated Agriculture
- A. Lajzak:* Negative consequences of regulation of a meandering sandy river and proposals tending to diminish flood hazard. Case study of the Nida River, Southern Poland
- V. Manukalo:* Some aspects of the implementation of Water Framework Directive in Ukraine
- P. Mikulecky:* On the Way to Knowledge-Based Water Management
- S. Nair:* Challenges in integrated catchment management in india in a changing environment

## SCIENTIFIC PROGRAMME (continued)

*D. Wykeham:* The Implementation of Catchment Abstraction Management Strategies (CAMS) in Sussex

*W. Zhu:* Catchment Water Balance Between Demand and Supply with Water Quality Issue

### Posters

*S. Awan:* Integrated catchment management of the Indus river basin

*S. Basu:* A study on the effect of the Farakka Barrage on the estuarine part of the river Hugli.

*G. Bolaji:* Rainfall reliability for water resources and food security: A case study of Southwestern Nigeria

*O. Chebanov:* Rainfall runoff generation in the small watershed of Northern California

*L. Chourasia:* Integrated use of surface and groundwater in lower Chambal command area, Madhya Pradesh, India

*A.L. Cognard-Plancq:* The hydrological influence of a mountain bog : a modelling approach

*A. Hamid:* Impact of Climate Change on Irrigated Agriculture: A case study in an irrigation sub-division Buchiana, Punjab Pakistan

*M. Hossain:* Computation Of Runoff In The Jamuneswari River Basin Of Northwest Bangladesh

*M. Khan:* Hydrological study of small scale hydropower developments in Ganges-Brahmaputra-Meghna river basin

*J. Labadz:* Upland catchment management and discolouration of water supplies

*T. Lewis:* Representation of Quaternary and Recent Deposits in Regional Scale Water Resources Models

*C. Mbajiorgu:* Determination Of Watershed Bmps For Soil And Water Conservation Using Agnps

*J. Prasad:* Performance appraisal of Sri Rama Saga irrigation system

*S. Rajkumar:* Holistic Approach for Integrated Catchment Management in Rural Environment

*M. Shinde:* Reservoir sizing algorithms for reservoirs for rainwater harvesting and supplementary irrigation

*M. Singh:* Soil and groundwater degradation: A consequence of excessive use of fertilizers in Punjab, India

*R.K. Singh:* Fuzzy Multiple Objective Algorithm For Paddy Field Catchment & Effluent Load Management By Recycling Through Drainage System

*R. Singh:* Micro-level water resources management in semi-arid regions for sustainable irrigated agriculture through modelling

*M. Singh:* Use of sand packed filters for artificial recharging of groundwater reservoir

*M. Tesar:* Runoff generation in a small mountain catchment as affected by the soil water regime

*M. Tesar:* Occult precipitation in a selected mountainous and urban regions of the Czech Republic and its importance from the hydrological and ecological view points

*H. Xiubin:* Effects of Soil-water Conservation on Hydrocycles in the Loess Plateau of China

*C. Yuenfang:* Perfecting the Use-and -Pay System for Water Resources in China

**International Conference on  
HYDROLOGY: SCIENCE & PRACTICE for the 21<sup>ST</sup> CENTURY  
12-16 July 2004, London, UK**

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