

**International Workshop on Status and Perspectives of Hydrology in Small Basins
Programme**

Monday, 30.03.09

Opening Session

14.30h to 15.00h

	Demuth	Siegfried	Unesco, Paris	Welcome address	Unesco/IHP
	Cullmann	Johannes	Germany	Welcome address	IHP-HWRP Sekretariat
	Herrmann	Andreas	Germany	Welcome address	TU Braunschweig
	Schumann	Sybille	Germany	Organisational Remarks	TU Braunschweig

Session 1.1 Presently operated small hydrological research basins;

60 years hydrological measurements in the Bramke research basin

15.00h to 15.30h

Chairperson: Hans- Jürgen Liebscher

15.00 - 15.30	Herrmann	Andreas	Germany	History and present status of small hydrological research basins	Keynote
15.30 - 15.50	Schumann	Sybille	Germany	60 years Bramke research basins: Major hydrological results and perspectives	1.1 Bramke
15.50 - 16.10	Hauhs	Michael	Germany	Classification of Time Series - modelling perspectives at Lange Bramke	1.1 Bramke
16.10 - 16.30	Lange	Holger	Norway	Investigating the Lange Bramke runoff dynamics: a nonlinear perspective	1.1 Bramke
16.30 - 16.50	Ahrends	Bernd	Germany	Assessment of forest management effects on N-cycling at three basins in the Upper Harz Mountains, Germany	1.1 Bramke
16.50 - 17.10	Unucka	Jan	Czech Republic	Small experimental watersheds in the Beskydy Mts., Czech Republic	1.1

17.10h to 17.30h: Coffee break

Session 1.2 Fundamental hydrological results drawn from studies in/ the operation of small basins

17.30h to 19.00h

Chairperson: Jianyao Chen

17.30 - 18.00	Warmerdam	Piet	The Netherlands	Fundamental hydrological research results drawn from studies in small basins	Keynote
18.00 - 18.20	Lehner	Irene	Switzerland	Long-term hydrometeorological research in the pre-alpine Rietholz bach catchment: results and future plans	1.2
18.20 - 18.40	Miklanek	Pavol	Slovakia	Long-term discharge trend and multi-annual variability analysis of the mountainous Bela River (Slovakia) in 1895-2006	1.2
18.40 - 19.00	Ollesch	Gregor	Germany	Anthropogenic alteration of water balance and runoff processes in a small low mountain catchment	1.2

19.15 h: Dinner

Working groups chairpersons and rapporteurs meeting

20.00h to 20.30h

20.45h: Reception (Ice-Breaker)

Tuesday, 31.03.09

Session 1.2 Fundamental hydrological results drawn from studies in/ the operation of small basins (cont.)

08.30h to 10.30h

Chairperson: Olga Semenova

08.30 - 08.50	Crespo	Patricio	Ecuador	Land use change impacts on the hydrology of Andean páramo ecosystems	1.2
08.50 - 09.10	Uhlenbrook	Stefan	The Netherlands	Study of land use impacts on runoff generation processes in steep, semi-arid headwater catchments, South Pare Mountains, Tanzania	1.2
09.10 - 09.30	Viville	Daniel	France	Hydrological behaviour of the granitic Strengbach catchment (Vosges massif, Eastern France) during a flood event	1.2
09.30 - 09.50	Holko	Ladislav	Slovakia	Hydrological processes in mountains - the knowledge gained in the Jalovecky creek catchment, Slovakia	1.2
09.50 - 10.10	Chiffard	Peter	Austria	Tracing runoff generation processes through different spatial scales in low and high mountain ranges	1.2
10.10 - 10.30	Penna	Daniele	Italy	Dynamics of soil moisture, subsurface flow and runoff in a small alpine basin	1.2

10.30h to 10.50h: Coffee break					
Session 1.3 Hydrological processes knowledge drawn from studies in/ the operation of small basins					
10.50h to 12.50h					
Chairperson: Daniel Viville					
10.50 - 11.10	Šanda	Martin	Czech Republic	Observing and modelling transport of natural tracer in the catchment over scales	1.3
11.10 - 11.30	Chen	Jianyao	China	Comparison and verification of base flow separation in the small coastal basin in Zhuhai, China	1.3
11.30 - 11.50	Deelstra	Johannes	Norway	Hydrology in small agricultural catchments; pathways and their impact on nutrient and soil loss	1.3
11.50 - 12.10	Lenartowicz	Maciej	Poland	Factors controlling groundwater dynamics in small protected basin	1.3
12.10 - 12.30	Latron	Jérôme	Spain	Hydrology in a Mediterranean mountain environment - The Valcebre research basins (North Eastern Spain). II. Rainfall runoff relationships and runoff processes	1.3
12.30 - 12.50	Lischeid	Gunnar	Germany	Upscaling small basin study results in time and space using non-linear statistics	1.3
12.50h to 14.00h: Lunch break					
Session 1.4 Importance of hydrological data and results from small basins for hydrological modelling					
14.00h to 15.40h					
Chairperson: Joanna Pociask-Karteczka					
14.00 - 14.20	Pfister	Laurent	Luxembourg	On the dialogue between experimental hydrologists and hydrological modellers: the example of the Alzette river experimental basin	1.4
14.20 - 14.40	Semenova	Olga	Russia	Experience with modelling of runoff formation processes modelling at basins of different scales using data of water-balance stations	1.4
14.40 - 15.00	Lana-Renault	Noemí	Spain	Hydrological dynamics and sediment response in three research basins with different land covers	1.4
15.00 - 15.20	Brocca	Luca	Italy	Catchment runoff prediction based on outcomes from a small experimental basin	1.4
15.20 - 15.40	Gallart	Francesc	Spain	Hydrology in a Mediterranean mountain environment- The Valcebre research basins (North Eastern Spain). III. Vegetation and water fluxes	1.4
15.40h to 16.00h: Coffee break					
Keynote Session for the working groups					
16.00h to 18.40h					
Chairperson: Pavol Miklanek					
16.00 - 16.40	Pfister + Uhlebrook	Laurent + Stefan	Luxembourg	How can experimental hydrology create generalizable hypotheses from equivocal insights gained from small basin studies?	Keynote for Working group 2.1 and 2.2
16.40 - 17.10	Kundzewicz + Hattermann	Zbigniew+ Fred	Poland/ Germany	Climate change impacts at the river basin scale	Keynote for Working group 2.3
17.10 - 17.40	Littlewood	Ian	UK	Catchment-scale rainfall–streamflow modelling: utility versus process understanding	Keynote for Working group 2.4
17.40 - 18.10	Beven	Keith	UK	Do we need research results from small basins for the further development of hydrological models?	Keynote for Working group 2.5
18.10 - 18.40	Uhlenbrook	Stefan	The Netherlands	What future contribution to capacity building of specialists and researchers is expected from operating small study basins	Keynote Capacity Building
19.00h Dinner					
Friend V meeting					
20.00h to 21.30h					

Wednesday, 1.04.09

Working groups

08.00h to 12.00h, parallel

09.30h – 10.30h (time-slot): Coffee break

Working group session 2.2 Research on hydrological processes:

Which achievements are expected from research in small basins in the coming decades

Chairpersons/ Rapporteurs: Laurent Pfister, Sybille Schumann and Laco Holko

10 min.	Crespo	Patricio	Ecuador	Towards a better understanding of the hydrology of tropical Andean ecosystems through an Andean Network of Research Basins	2.2
10 min.	Pavlásek	Jirka	Czech Republic	Ten years of hydrological monitoring in upland microcatchments in the Bohemian Forest, Czech Republic	2.2
10 min.	Weiler	Markus	Germany	Spatial-temporal patterns of lateral inflow into stream networks	2.2
10 min.	Zhuravin	Sergey A.	Russia	Development of small research basins studies in Russia and the most actual current tasks	2.2

Working group session 2.3 Which contribution to the monitoring and understanding of changes in

physical processes, water fluxes, water balance and global warming effects is expected from hydrological small basin research

Chairpersons/ Rapporteurs: Piet Warmerdam, Michael Bredemeier and Henning Meesenburg

10 min.	Cieśliński	Roman	Poland	Impact of natural and anthropogenic conditions on changes of hydrographic network in small potamic catchment on example of River Plutnica (northern Poland)	2.3
10 min.	Hejduk	Leszek	Poland	Changes in rainfall and runoff from a small lowland river catchment in Poland based on long term records	2.3
10 min.	Lennartz	Bernd	Germany	Water quality of artificially drained small basins- Global climate change perspectives	2.3
10 min.	Meesenburg	Henning	Germany	Retrospective and prospective evaluation of water budgets at Lange Bramke, Harz Mountains, Germany: Effects of plant cover and climate change	2.3
10 min.	Nair	Shadananan	India	Impact of climate change and human interference on the hydrology of small basins of Kerala	2.3
10 min.	Lipponen	Annuka	Republic of Tajikistan	The current condition of mountain glaciers of Tajikistan and adaptation of economic activities of the Vakhsh sub-basin to global and local changes	2.3
10 min.	Reinstorf	Frido	Germany	The hydrological research catchment Schäfertal in the Harz Mountains/ Central Germany - current state of the observation programme and results of the recent runoff analysis	2.3

Working group session 2.4 Research in small basins: What may be the scientific contribution to the PUB initiative and what is expected vice versa?

Chairpersons/ Rapporteurs: Stefan Uhlenbrook, Ian Littlewood and Hillary McMillan

10 min.	Bryndal	Tomasz	Poland	Investigations of maximum discharge in ungauged small basins in the Polish part of the Carpathian Mts.	2.4
10 min.	McMillan	Hilary	New Zealand	Improving perceptual and conceptual hydrological models using data from small basins	2.4
10 min.	Törnros	Tobias	Germany	Heading for knowledge in a data scarce river basin: Kharaa, Mongolia	2.4

Working group session 2.5 Do we need research results from small basins for the further development of mathematical hydrological models?

Chairpersons/ Rapporteurs: Keith Beven, Britta Schmalz and Francesc Gallart

10 min.	Gallart	Francesc	Spain	Hydrology in a Mediterranean mountain environment - The Vallcebre research basins (North Eastern Spain).IV. Implementing and testing hydrological models	2.5
10 min.	Krauß	Thomas	Germany	Robust estimation of hydrological parameters in the context of flood forecasting in small catchments	2.5
10 min.	Lana-Renault	Noemí	Spain	Hydrological dynamics and sediment response in three research basins with different land covers	2.5
10 min.	Salazar	Osvaldo	Sweden	Calibration and uncertainty estimation of a distributed model using the GLUE methodology in a small drainage basin in south-east Sweden	2.5

12.00 to 13.15: Lunch break

Workshop Field Trip

13.30h to 19.00h

19.00h: Workshop Dinner

Thursday, 2.04.09

Working groups (cont.)

08.00h to 09.30h, parallel

09.30h to 10.00h: Coffee break

Working group results presentation in plenum and discussion

10.00h to 11.15h

Final discussion of the Braunschweig Declaration with main outcomes of the workshop to point on the future demands and challenges for scientific activity of hydrology at small basin scale

Editorial meeting for Braunschweig Declaration

11.15h to 11.45h

Adoption of the Braunschweig Declaration

11.45h to 12.00h

Closing of the workshop

12.00h to 12.15h

12.30h: Lunch

ERB Steering Committee meeting

14.00h to 18.00h

19.00h: Dinner