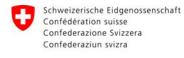




IHP/HWRP National Committee





Swiss Confederation

5 UNIVERSITÄT

First Circular International Workshop Erosion, Transport and Deposition of Sediments Bern, Switzerland 28-30 April 2008

Background

The International Sediment Initiative (ISI) is a UNESCO-programme, which has been set-up in September 2004. The mission of ISI is to organize and promote international information exchange and provide direct access to policy makers in Member States, while activating scientific and professional communities in all regions and countries concerned. ISI will promote the elaboration and monitoring of sediment data to develop appropriate methods and procedures in sediment management. The main activities and projects of ISI are: review of erosion and sediment-related research, global evaluation of sediment transport, setting-up of an erosion and sediment information system, development of case studies for large river basins, networking with other institutions in the field of sediments and education and capacity building.

The International Commission for the Hydrology of the Rhine Basin (CHR) is a cooperation of scientific institutions from Switzerland, Austria, Germany, France, Luxembourg and the Netherlands in the field of hydrology. The mission of the CHR is the expansion of the hydrological knowledge in the Rhine basin as well as the support of decision making in sustainable water resources management by solving of cross-border problems. CHR aims at the joint development of know-how and equipment for observation, quantification and forecasting of sediment transport.

Objectives of the workshop

- To present a state-of-the-art of sediment related problems
- To discuss present and future problems in relation to sediment management.
- To exchange knowledge about erosion, transport and deposition of sediment.
- To detect and discuss research needs.
- To discuss and solve specific problems in a Swiss alpine catchment area.

The International Commission for the Hydrology of the Rhine Basin (CHR) invites scientists, researchers, decision makers, consulting experts and stakeholders in the field of sediment management to discuss these issues during a three day workshop.

Structure and workshop themes

The workshop is divided in two plenary working sessions and a technical field trip.

Session 1: Experiences from the River Rhine basin

Debris flows Sediment transport during flood events Reservoir sedimentation Sediment problems in impounded reaches Sediment quality Sediment finger printing Morphological processes at bifurcations Navigation aspects of river and sediment management

Session 2: Experiences from other continents

- Keywords: Soil erosion Sediment management Reservoir sedimentation
 - Reservoir sedimentation Time series and accuracy Sediment balance

Technical field trip:

Keywords:

Keywords: Assessment of sediment processes in torrent catchments Hazard maps Sediment transport in rivers

The one day field trip will take place in the Lütschine basin in the Berner Oberland

Provisional programme and timetable

Day 1 – 28 April 2008

Registration – from 08.30 a.m.

09.00Welcome by Manfred Spreafico, president of CHR09.10Welcome by Anil Mishra, UNESCO / Division of Water Sciences, International Hydrological Programme, Section of Hydrological Processes and Climate, Paris, France09.20Welcome by a representative of the Swiss Federal Office for the EnvironmentSession 1 – Experiences from the River Rhine basinRapporteur: Jens TurowskiChair: to be appointed09.30 – 10.00Debris flows and sediment transport in steep catchments – Dieter		
and Climate, Paris, France09.20Welcome by a representative of the Swiss Federal Office for the EnvironmentSession 1 – Experiences from the River Rhine basinRapporteur: Jens TurowskiChair: to be appointed		
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09.30 – 10.00 Debris flows and sediment transport in steep catchments – Dieter		
Rickenmann, Swiss Federal Research Institute WSL Birmensdorf		
10.00 – 10.30 Lake Brienz Project: An interdisciplinary catchment-to-lake study – Alfred		
Wüest, EAWAG, Dübendorf		
10.30 – 11.00 Reservoir sedimentation – Anton Schleiss, EPF Lausanne		
11.00 – 11.30 Tea/Coffee – Posters		
11.30 – 12.00 Sediment problems in the Austrian Rhine catchment – Martin Weiß,		
International Rhine regulation, Lustenau		
12.00 – 12.30 Sediment deposition and sediment management in the impounded section		
of the Upper Rhine, Stefan Vollmer, Federal Institute of Hydrology,		
Koblenz		
12.30 – 14.00 Lunch		
Chair: Eric Sprokkereef		
14.00 – 14.30 Contaminated sediments in the Rhine basin - relevant pollutants and		
resuspension risk – Martin Keller, Federal Institute of Hydrology, Koblenz		
14.30 – 15.00 Finger printing of suspended sediment sources in the Luxemburg part of		
the Rhine catchment – Andreas Krein, Centre de Recherche Public Gabriel		
Lippmann, Belvaux		
15.00 – 15.30 Sediment transport and sediment management in the free flowing German		
Rhine – Emil Gölz, Federal Institute of Hydrology, Koblenz		
15.30 – 16.00 Tea/Coffee – Posters		
16.00 – 16.30 Morphological processes at river bifurcations – Roy Frings, University of		
Utrecht		
16.30 – 17.00 Navigation aspects of river and sediment management – Hendrik Havinga,		
Rijkswaterstaat Regional Directorate East-Netherlands, Arnhem		
17.00 – 18.00 Discussion of session 1		
18.00 – 18.30 Oral presentation of posters and poster session		
19.30 Participants' dinner		

Day 2 - 29 April 2008

Session 2 – Experiences from other continents		
Rapporteur: Jens Turowski		
Chair: Manfred Spreafico		
09.00 - 10.00	Soil erosion modeling and control in Brazil - Past, present and future -	
	Henrique M. L. Chaves, School of Technology, University of Brasilia,	
	Brazil	
10.00 - 11.00	Sediment management in transboundary river basins - Challenges for	
	management - Marcelo Gaviño Novillo, Departamento de Hidráulica	
	Facultad de Ingeniería – Uiversity of La Plata, Argentina	
11.00 - 11.30	Tea/Coffee – Posters	
11.30 - 12.30	Changes in annual runoff and sediment loads of major rivers in China –	
	Chunhong Hu, International Research and Training Center, Beijing, China	
12.30 - 14.00	Lunch	
14.00 - 15.00	Reservoir sedimentation - An overview - Gerrit Basson, Dept. of Civil	
	Engineering, University of Stellenbosch, South Africa	
15.00 - 16.00	Investigating the changing sediment loads of the world's rivers: Problems	
	and Findings - Des Walling, Dept. of Geography, University of Exeter,	
	United Kingdom	
16.00 - 16.30	Discussion of session 2	
16.30 - 17.00	Tea/Coffee – Posters	
17.00 - 17.30	Summary and conclusions of the workshop by the rapporteur	
17.30 - 18.30	Introduction to the pilot catchment of the Lütschine	

Evening event

Participants' dinner near the conference centre on 28 April at 7.30 pm

Technical Field Trip

On 30 April 2008 a technical field trip to the catchment of the Lütschine will take place.

Mr. H. Kienholz and Mr. Ch. Lehmann will give an introduction into the various sediment related processes in the river basin. Problems will be discussed in-situ together with the participants. Monitoring infrastructures will be presented by the Swiss national hydrological survey.

Language

Working language of the workshop will be English. Working language during the field work will be English and German.

Registration and organizational details

Participation is limited to approximately 60 persons. Please confirm your participation to the workshop, indicating on the registration form if you would like to contribute with a poster. Oral presentations will be given by invited speakers only. The standard time for presentations is 20 minutes, with additional 10 minutes for clarifying questions and discussion. At the end of the first day there will be time for a 2 minute oral presentation of your poster.

Speakers and participants who present a poster will be asked to submit an extended abstract of their contribution. The length of the abstract is limited to max 6 pages for oral contributions and max 2 pages for poster presentations. All abstracts will be collected in a book of abstracts and handed out to the workshop participants. Subject to the authors approval the abstracts as well as a pdf version of the contributions will be published on the CHR website. After the workshop a final report will be compiled by the rapporteur. This report will contain a synthesis of the contributions as well as the knowledge gaps and research needs that were found during the workshop.

Deadlines

Registration before 1st February 2008

(or earlier if the maximum number of participants is exceeded) Submission of extended abstracts of presentations and posters before **15th April 2008**

Venue

Main building of the University of Berne Kuppelraum, Room 501 Hochschulstrasse 4 CH 3012 Bern

Fees

Most of the costs of the workshop will be covered by the organisers and sponsors. Participants have to pay a limited contribution for catering (luncheons, coffee breaks) and transport. This contribution amounts to:

€150 for the two plenary working sessions and the field trip

€100 for only the two plenary working sessions

Tickets for the Conference Dinner on 28 April at the amount of \notin 50 must be purchased separately.

Cancellations must be submitted to the CHR Secretariat (info@chr-khr.org) before April 1, 2008 for a full refund less an administration fee of \notin 50. After April 1, 2008 no refunds will be paid.

Overnight accommodation must be arranged and paid for by the participants themselves. Hotel accommodation can be booked on the internet site of the Berne tourist office <u>www.berninfo.com</u>.

Organisers and sponsors

The invitation to the event is issued by the International Commission for the Hydrology of the Rhine Basin (CHR) in cooperation with UNESCO International Hydrological Program / International Sediment Initiative, the University of Berne and the Swiss Federal Office for the Environment

Co-sponsors

- Hydrologic Commission of Switzerland
- National IHP-secretariats of the Netherlands, Germany and Switzerland

For further information about CHR and about the workshop, please visit our website at <u>www.chr-khr.org</u>.

Coordination committee

- Manfred Spreafico (chair) Federal Office for the Environment CH-3003 Bern Tel. 0041-31-324 7667 manfred.spreaficor@bafu.admin.ch
- Dieter Rickenmann Swiss Federal Research Institute WSL Zuercherstrasse 111 CH-8903 Birmensdorf Tel. 0041-44-793 2429 <u>dieter.rickenmann@wsl.ch</u>
- Hans Peter Nachtnebel University of Natural Resources and Applied Life Sciences Institute of Water Management, Hydrology and Hydraulic Engineering Muthgasse 18 A-1190 Vienna Tel: 0043-1-36006 5501 hans_peter.nachtnebel@boku.ac.at

- Emil Gölz Federal Institute of Hydrology Postfach 200253 D-56002 Coblence Tel. 0049-261-1306 5412 goelz@bafg.de
- Andreas Krein Centre de Recherche Public Gabriel Lippmann 41, rue du Brill L-4422 Belvaux Tel. 00352-470261461 <u>krein@lippmann.lu</u>
- Eric Sprokkereef Secretariat CHR P.O. Box 9072 NL-6800 ED Arnhem Tel. 0031-26-3688367 <u>eric.sprokkereef@rws.nl</u>

For further information, please contact either the CHR/KHR secretariat or one of the members of the coordination committee.