

INTERNATIONAL SEDIMENT INITIATIVE

NEWSLETTER

Reporting ISI news to you quarterly

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IN THIS ISSUE

News

- ✧ The 10th International Symposium on River Sedimentation was held in Moscow on August 1–4, 2007 1
- ✧ The Second Council Meeting of WASER and the WASER Assembly were held in Moscow July 31 and August 4, 2007 1
- ✧ 40th session of the IHP Bureau (Delft, 13-15 June 2007) 2
- ✧ Meeting of the Directors of UNESCO's Water-related Centres(Delft, 11–12 June 2007) 2

Conference Report

- ✧ The 10th International Symposium on River Sedimentation (Moscow, Russia, August 1 – 4, 2007) 3

Coming Events

- ✧ 8th International Conference on Hydro-Science and Engineering (ICHE-2008) 4
- ✧ 11th International Symposium on the Interactions between Sediments and Water 4
- ✧ Advanced Training Workshop on Reservoir Sedimentation Management 5
- ✧ International Conference on Fluvial Hydraulics (River Flow 2008) 6
- ✧ International Symposium on Sediment Management 6
- ✧ 5th International SedNet Conference 27th-29th May 2008 6

Newsletter Layout and Production:

ISI Technical Secretariat

The ISI Newsletter is sent quarterly to ISI-Steering Committee members and interested experts. Please send your contributions to the Chairman of ISI SC at manfred.spreafico@bafu.admin.ch or ISI technical Secretariat at chliu@iwhr.com.

NEWS

The 10th International Symposium on River Sedimentation was held in Moscow on August 1–4, 2007

The 10th International Symposium on River Sedimentation (10th ISRS) was successfully held in the M.V. Lomonosov Moscow State University, Moscow, Russia on August 1 to 4, 2007. 237 participants from 30 countries and regions attended the important series technical event.

The International Symposia on River Sedimentation (ISRS) is a triennial event initiated in 1980, with a permanent secretariat in the International Research and Training Center on Erosion and Sedimentation (IRTCES). With the support from the UNESCO and the related international associations, and with the participation of the experts and scholars worldwide, the ISRS has drawn wide attention and become one of the attractive technical events in the world. So far over 2200 persons have attended the symposia. The ISRS provides an opportunity for scientists, engineers, researchers and decision-makers to exchange ideas, research results and advanced techniques, and establish friendship. It served as the official symposium of WASER since the 9th ISRS held in Yichang, China in 2004.

The 10th ISRS was organized by the Moscow State University, sponsored or cosponsored by 18 institutes or organizations including the UNESCO, Federal Agency of Water Resources of Russian Federation Ministry of Natural Resources, Federal Agency of Science and Innovations, World Association for Sedimentation and Erosion Research (WASER) and International Research and Training Center on Erosion and Sedimentation (IRTCES). The central theme of the Symposium was: Effects of River Sediment and Channel Processes on Social, Economical, and Environmental Safety. The papers were presented and discussed in plenary sessions and 7 parallel sessions.

The 11th ISRS will be held in South Africa in the September, 2010.

Details about the symposium can be seen by visiting: <http://www.irtces.org/zt/10isrs> (by Cheng LIU, IRTCES)



Opening ceremony

The Second Council Meeting of WASER and the WASER Assembly were held in Moscow July 31 and August 4, 2007

The 10th International Symposium on River Sedimentation (10th ISRS) was held in the M.V. Lomonosov Moscow State University, Moscow, Russia on August 1 to 4, 2007. During the symposium, the Second Council Meeting of

the World Association for Sedimentation and Erosion Research (WASER) and the WASER Assembly were held.

The Second Council Meeting of the WASER was held in the afternoon of July 31, 2007. 21 participants attended the council meeting, Prof. Des E. Walling, President of the WASER council, presided over the meeting. After Prof. Kasimov, the Local organizer, made a welcoming speech, the meeting discussed, suggested and approved the following issues:

President's report

Treasurer's report

Nomination of Prof. Bingnan Lin from China and Prof. E. Plate from Germany as honorary member of WASER

Proposal of establishment of first WASER Qian Ning International Prize for Erosion and Sedimentation Technology and nomination of award candidates;

Report on the Second WASER Prize for Best Papers Published in the International Journal of Sediment Research

WASER work plan 2007 – 2010; and

Report on venue, sponsors and central theme of the 11 th ISRS

During the meeting, On behalf of Prof. Shangfu Kuang, Director of the IRTCES, Prof. Des E. Walling officially announced the election result of Council Members of WASER 2007-2010. The meeting also discussed amendment of WASER Statutes and establishment of Nomination Committee of Council and suggested a team led by Prof. G. Di Silvio to prepare a draft version for circulation and approval of the council.

The Second WASER Assembly was held in the Moscow State University in the afternoon of August 4, 2007. WASER members and participants from all over the world attended the Assembly. This is a very good opportunity for all WASER members to get together after nearly three years since the birth of the association.

Prof. Des E. Walling, President of WASER council, presided over the General Assembly and delivered a general report of WASER. Prof. G. Di Silvio, Vice President of WASER council, announced the winners of honorary members and briefed their accomplishments and contributions. The winners are Prof. Bingnan Lin from China and Prof. E. Plate from Germany ; Prof. Des E. Walling and Prof. Chih Ted Yang presented the certificates and medals to the representatives of winners. A short speech was given by representative of winners. Prof. Chih Ted Yang, Vice President of WASER council, announced the list of recipients of second WASER best paper prize published in the "International Journal of Sediment Research", Prof. G. Di Silvio, Vice President of WASER council, Prof. Qiyang Yu, Secretary General of WASER council, Prof. Roman S. Chalov, Council Member of WASER, presented medals to winners. Prof. Dingzhong Dai, Director of Qian Ning Foundation Committee for Sedimentation and Erosion Technology announced the First Qian Ning International Prize for Sedimentation and Erosion Technology of WASER, the Winners are Prof. Des E. Walling from UK and Prof. Sam S. Y. Wang from USA. Prof. Qiwei Han, Academician of Chinese Engineering, Professor of the IWHR, and Prof.

Guangqian Wang of Tsinghua University of China presented the certificates, medals and honorarium. (IRTCES)



Group photo of the Second Council Meeting of the WASER



Second WASER Assembly



Qian Ning International Prize of WASER

40th session of the IHP Bureau (Delft, 13-15 June 2007)

From 13-15 June 2007, the 40th session of the International Hydrological Programme (IHP) Bureau was held at the UNESCO-IHE Institute for Water Education in Delft, The Netherlands, coinciding with the 50th anniversary celebrations of the Institute. The Bureau discussed, consolidated and endorsed a strategy for UNESCO's water-related institutes and centres that will go to the IHP Intergovernmental Council for an out-of-session approval. In this context, the Bureau recommended that future proposals for the establishment of water-related centres be defined according to both the newly-endorsed strategy for water-related centres under the auspices of UNESCO as well as the current UNESCO-wide principles and guidelines for such centres and institutes.

The IHP Bureau also decided to endorse the strategic plan for the 7th Phase of IHP (IHP-VII, 2008-2013) and submit it to the IHP Intergovernmental Council. In addition, the Bureau discussed at length the report by the Director-General on the Conclusions and Recommendations of the Expert Team on the Overall Review of Major Programmes II and III. The Bureau decided to forward its comments to Mr. Matsuura, UNESCO's Director-General, in order for him to transmit these to the 177th session of the Executive Board.

The IHP Bureau was also informed of ongoing activities, including preparations for IHP's potential future involvement in the 5th World Water Forum (March 2009, Istanbul), involvement of IHP in the UN Decade of Education for Sustainable Development (DESD), and its role as lead partner of Thematic Programme 8 on Education for Sustainable Water Management of the DESD Action Plan. (IHP Secretariat)

Meeting of the Directors of UNESCO's Water-related Centres(Delft, 11–12 June 2007)

Directors of UNESCO's water-related category 1 institute and category 2 centres met at UNESCO-IHE in June 2007. The objective of the meeting was to discuss and adopt the joint strategy for UNESCO's water-related institutes and centres, which had been drafted by a Task Force that had its meeting in February 2007. In addition, the meeting facilitated development of linkages between centres and enabled the directors to have a clearer idea of their complementarities.

The meeting was opened by a welcoming address by Mr Richard Meganck, director of UNESCO-IHE. Mr András Szöllösi-Nagy, Secretary of the IHP then introduced the objectives of the meeting and the background, context and the process for developing the strategy for UNESCO's water-related centres. The meeting appointed Ms Dalal Alnaggar (Regional Centre of Training and Water Studies of Arid and Semi-arid Zones, Egypt) as the chairperson and Mr Semsar Yazdi (International Centre on Qanats and historic Hydraulic Structures, Iran) as the vice-chair. Mr Peter Letitre (International Groundwater Resources Assessment Centre, the Netherlands) was the rapporteur of the meeting. Participants of the meeting included 17 directors and deputies of existing and proposed centres, three members of the IHP Bureau, and four observers.

The participants commended the Task Force for developing the draft strategy, which provided a solid basis upon which improvements and adjustments were made. During the two days, the participants discussed, in the plenary as well as in smaller groups, various sections of the draft strategy. As a result of these discussions, many changes were made to the draft strategy. The comments made by UNESCO National Commissions, IHP National Committees and directors of category 2 centres were also re-considered during this revision process. (UNESCO-IHP)

CONFERENCE REPORT

The 10th International Symposium on River Sedimentation (Moscow, Russia, August 1–4, 2007)

The 10th International Symposium on River Sedimentation (10th ISRS) was successfully held in the M.V. Lomonosov Moscow State University, Moscow, Russia on August 1 to 4, 2007. 237 participants from 30 countries and regions attended the important series technical event.

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The 10th ISRS was organized by the Moscow State University, sponsored or cosponsored by 18 institutes or organizations including the UNESCO, Federal Agency of Water Resources of Russian Federation Ministry of Natural Resources, Federal Agency of Science and Innovations, World Association for Sedimentation and Erosion Research (WASER) and International Research and Training Center on Erosion and Sedimentation (IRTCES). The central theme of the Symposium is: Effects of River Sediment and Channel Processes on Social, Economical, and Environmental Safety. The problems of soil erosion and fluvial processes, sediment yield forming and sediment transport are the part of general problem of water and earth resources rational usage and protection. The Symposium is to consider sediment transport and accumulation, riverbed processes and river sedimentation, river mouth and estuarine problems, environmental sedimentation, soil and water, and sediment information, pollutant transfer and piling up in rivers and reservoirs, small rivers degradation and disappearance, river engineering, river structures reliability and stability.

The papers were presented and discussed in plenary sessions and 7 parallel sessions, which including: (1) Processes within drainage basins as sources of river sediment: study, modeling, and forecasting under natural and anthropogenic conditions; (2) An estimation of natural and anthropogenic factors contribution into changes of river sediment yield; (3) River sediment yield estimation for studying and modeling river channel processes; (4) Sediment yield in river mouths; (5) River sediment in the environment; (6) Management of river sediment formation and transport processes; and (7) Land-Sea Interactions: Coastal Environmental Changes. 15 keynote papers are:

D. E. WALLING (UK) Global Change and the Sediment Loads of the World's Rivers

N.I.ALEKSEEVSKIY, R.S.CHALOV (Russia) Hydroecological Safety of Russia and its Relationship with Sediment Yield and River Channel Deformations

N.S.KASIMOV, M.YU.LYCHAGIN, I.A.KOROLEV (Russia) Heavy Metal Transport in the Volga River

Presentation by Dr. Abdulmalek A Al Sheikh, secretary general of the Prince Sultan Bin Abdulaziz International Prize For Water

SAM S.Y. WANG (USA) River Engineering Using Integrated Methodology

P.WALLBRINK (Australia) Progress and Limitations in Modeling Sediment Transport

P. DEDKOV, V.I. MOZZHERIN, A. V. GUSAROV (Russia) Suspended Sediment Yield on the Earth: Basic Regularities

V.N. Mikhailov (Russia) Hydrological-morphological Processes at River Mouths

J.R. Gray, W.R. Osterkamp (USA) Vision for a WorldWide Fluvial-Sediment Information Network

B.F. Snishchenko (Russia) Application of the Hydro-Morphological Theory of Channel Processes for Accident Prevention in Social and Industrial Complexes in River Valleys

V. N. GOLOSOV (Russia) Research of Sediment Transport and Deposition in the Watershed-River System on the Base of Tracer Techniques

BABINSKI (Poland) Influence of Reservoirs on Sediment Transport and Erosion Processes below the Dams

Yitian. LI, L. JIANG, Z. SUN (China) Characteristics of Channel Evolution Downstream from the Three Gorges Project

Ph. N. Owens (Canada) Erosion Processes and Pollution Transport

I.P. KOVALCHUK (Ukraine) Problems of Small Rivers Degradation

A technical tour cruising down the Moskva River from Novospassky Bridge to Serebryany Bor was organized. During the tour, participants looked at hydraulic structures, embankments and bridges, observed the waterways management and visited one of the Moskva-Volga channel locks, as well as enjoyed the beautiful scenery around the river.

In the closing ceremony held in the afternoon of August 4, Prof. R.S Chalov, the representative of the LOC handed over the Symposium banner to Prof. Chunhong HU, the representative of the permanent Secretariat. Then Prof. HU handed over the symposium banner to Prof. G.R. Basson, the representative of the 11th ISRS. Prof. Basson welcomed all participants meeting again in South Africa in the September, 2010!

The symposium proceedings with 6 volumes was published by the Moscow State University. A total of 374 scientific papers from 38 countries and regions were included into the proceedings.

Details about the symposium can be seen by visiting: <http://www.irtces.org/zt/10isrs> (by Cheng LIU, IRTCES)



Presidium of the opening ceremony



Speech by Prof. Jinwu Pang, the representative of Chinese delegation in the Opening



The permanent secretariat sent gift to the LOC in the closing ceremony



The permanent secretariat handed over the symposium banner to the representative of the 11th ISRS

COMING EVENTS

8th International Conference on Hydro-Science and Engineering (ICHE-2008)

From 2008-09-8 to 2008-09-12

Venue: Nagoya, Japan

Summary: On behalf of the International and the Local Organizing Committees of the 8th International Conference on Hydro-Science and Engineering (ICHE-2008), we cordially invite you to participate in the conference to be held on September 8-12, 2008 in Nagoya, Japan. It is great honor for us to be your hosts at this important event in which our primary goals are the sharing of scientific and professional experiences and recent advances in our engineering discipline. The conference is hosted by Nagoya University, School of Civil Engineering, and organized locally by an organizing committee composed of faculty members from Nagoya University and other universities in the region. The ICHE-2008 will extend the series of biennial conference started in Washington, D.C (1993), continued in Beijing (1995), Cottbus (1998), Seoul (2000), Warsaw (2002), Brisbane (2004), and Philadelphia (2006). These conferences have acted in the past as a welcome forum to report and discuss the latest advancements in Hydro-Science and Engineering and as such have always been highly valued by all participants.

Undoubtedly, the ICHE-2008 will provide an opportunity for making numerous personal and professional contacts. The theme of this conference is "New Challenge of Hydro-Science and Engineering toward Sustainability through Flood Risk, Water Resources & Ecosystem Assessment". Though the topics discussed in this conference are wide as listed below, they will be organized as several mini-symposia to clarify the direction of the new challenge. In addition to personal and professional contacts during the technical sessions, the conference offers its participants a chance to attend specialized technical visit that will demonstrate "New

Challenge of Hydro-Science and Engineering toward Sustainability through Flood Risk, Water Resources & Ecosystem Assessment".

Sponsors: International Association of Hydraulic Engineering and Research (IAHR), Nagoya University, Japan Society of Civil Engineers (JSCE), Ecology and Civil Engineering Society (ECES), Japan Water Forum, Chinese Hydraulic Engineering Society (CHES), Korean Association for Water Resources (KWRA), Canadian Society for Civil Engineering (CSCE), American Society of Civil Engineers (ASCE), World Association for Sedimentation and Erosion Research (WASER), National Center for Computational Hydroscience and Engineering, the University of Mississippi (NCCHE)

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11th International Symposium on the Interactions between Sediments and Water

From 2008-02-17 to 2008-02-22

Venue: Esperance, Australia

Summary: Management objectives for aquatic systems are increasingly highlighting the importance of sediment-water interactions in controlling nutrient and pollutant cycling.

The 11th International Symposium on the Interactions between Sediments and Water will explore our current understanding of process interactions across multiple space and time scales.

Interactions at the microscale will be explored alongside interactions at catchment scale. The impact of extreme, short-lived events, such as a tsunami, will be compared to the impact of long-term drivers, such as climate change. We will also examine how sediment and water link terrestrial, freshwater, and marine ecosystems.

The Symposium will be held in Esperance, Western Australia, where ancient soils, sediments and catchments maintain in a fragile balance with modern land uses and tourism. Mid-symposium field trips will provide opportunities to experience and engage with this fascinating area.

Sponsors : International Association for Sediments Water Science (IASWS); The University of Western Australia; School of Environmental Systems Engineering (SESE); Faculty of Engineering, Computing & Mathematics; Department of Conservation and Land Management; Skywest; Perth Convention Bureau

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Advanced Training Workshop on Reservoir Sedimentation Management

From 2007-10-10 to 2007-10-16

Venue: International Research and Training Center on Erosion and Sedimentation (IRTCES), Beijing, China

Summary: Reservoir sedimentation will occur after impoundment of a reservoir due to reduction in water surface slope and velocity. Many impacts can be induced by reservoir sedimentation, such as on life-span of reservoir, flood control, power generation, water quality, obstruction to navigation, headward extension of backwater deposits and degradation below reservoirs, etc. In China there are lots of reservoirs constructed on heavily sediment-laden rivers, so reservoir sedimentation problems are very serious. Chinese scientists and engineers involved in sediment research have accumulated rich experiences and taken effective methods in the reservoir sedimentation management for a long time. IRTCES wishes to share these findings and issues with all people engaging in sediment research of the world.

The Advanced Training Workshop on Reservoir Sedimentation Management is designed in fulfilling demands and needs for hydraulic engineers, managers, stakeholders and decision-makers in the countries suffering of serious reservoir sedimentation. Through lectures, discussions, exchanges and one-day field study the participants can improve their professional sediment theory and knowledge, get much latest concepts and techniques, and information and establish linkage among participants.

The Advanced Training Workshop on Reservoir Sedimentation will be organized as a major activity of the International Sedimentation Initiative (ISI) of UNESCO for 2006-2007. It should meet the fourth objective of ISI "Education and capacity building for sustainable sediment management". In the next few decades more than 50% of the world's reservoir storage capacity may be lost due to

sedimentation, and realizing that appropriate sites for water storage are limited so that the sediment management practice in rivers, watersheds and reservoirs is of great importance and should be improved.

Organizer: IRTCES

Sponsors: International Sedimentation Initiative (ISI)-UNESCO-IHP; Ministry of Water Resources, Government of China

Co-sponsors: World Association for Sedimentation and Erosion Research (WASER); The Chinese National Committee for IHP

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URL: http://www.unesco.org/water/ihp/pdf/isi_training_brochure.pdf

International Conference on Fluvial Hydraulics (River Flow 2008)

From: 2008-09-03 to 2008-09-05

Venue: Altinyunus Hotel, Çeşme-İzmir-Turkey

Summary: Rivers are continuously eroding or depositing under normal natural conditions. However, these changes can be either reversible or irreversible. Reversible changes result from the natural cycle of water and sediment runoff from a catchment. However, irreversible changes normally occur under natural conditions in the upper or lower reaches of a river. Within the context of reversible and irreversible water-sediment processes, Fluvial Hydraulics was born as one of the fundamental discipline in engineering practice and scientific research. Recent developments in fluid and sediment mechanics have provided Fluvial Hydraulics the integration of basic phenomenal knowledge into practical engineering works. New engineering tools revealed from advances in physical understanding, computation methods and measuring techniques.

River Flow 2008 will be organized with the support of Fluvial Hydraulic Section (FHS) of the International Association of Hydraulic Engineering and Research (IAHR). This conference intends to be a forum for all researchers involved in River Hydraulics studies. It would be an opportunity to meet together for scientists working on both complementary aspects of hydrodynamic processes and sediment transport phenomena in rivers, using theoretical, experimental or numerical approaches. The conference will concentrate on the hydraulics fundamentals, its application in engineering or environmental related problems.

The conference, River Flow 2008 in Turkey, will be a three-day-long simulation of the work of the scientists studying on Fluvial Hydraulics. The conference will begin on Wednesday, September 3. Technical sessions will be held in four parallel

tracks from Wednesday to Friday. During the conference, one or two plenary lectures will be planned each day to deliver by expert scientists. Master classes, which are an important feature of the River Flow Conference Series, will be held the day preceding the formal opening of the Conference.

Organizer: Local Organizing Committee (LOC) for River Flow 2008 of Turkey. The LOC members consist of the following Universities/ Institutions:

State Hydraulic Works of Turkey
Middle East Technical University (METU)
Gazi University (GU)
Istanbul Technical University (ITU)
Dokuz Eylül University (DEU)
İzmir Institute of Technology (IYTE)
Cukurova University (CU)
The University of Mississippi, USA

Sponsors/co-sponsors:

International Association of Hydraulic Engineering and Research (IAHR)-Fluvial Hydraulics Committee (FHC)
UNESCO- International Hydrological Programme-(IHP)
International Sedimentation Initiative (ISI)-IHP

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International Symposium on Sediment Management

From 2008-07-10 to 2008-07-12

Venue: I2SM, Lille, July 10-12th, 2008, France

Summary: For many decades, waterways have been exposed to a wide variety of contaminants. Over the ages, river estuaries have given economic prosperity to those who live on their embankments. Much of this prosperity is based on the sediments brought by the rivers.

Even if regulations and a better control of contaminants have been established to reduce their emission, many contaminants are still present in bottom sediments. In fact, some of them are persistent and continue to pose a risk to the environment.

Since contaminated sediment problematic is extended throughout the world, this symposium will be international event. The symposium will review recent advances on sediments management related research and focus on engineering aspects. It will provide a unique opportunity for experts and engineers all over the world to meet and share their experience.

The organising committee cordially invites you to attend I2SM, which will be held on July 10 -12th 2008 in Lille, France

Organizer: Ecole des Mines de Douai France,

Co-sponsors : Région Nord-Pas de Calais, ADEME and Europe

Contacts: Prof. ABRIAK N.E

Ecole des Mines de Douai

Secretary of the International Symposium on Sediment Management

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5th International SedNet Conference 27th-29th May 2008

Hosted and co-organised by: the Norwegian Geotechnical Institute, Oslo, Norway

Urban Sediment Management and Port Redevelopment

Summary: In urbanised areas sediments in rivers, harbours and marine coastal zones are often historically contaminated as a result of industrial activities, dockyard and harbour operations as well as discharges of municipal wastewater and urban surface water run-off. These 'legacies of the past' complicate the redevelopment of harbour areas and the waterfront of cities for housing or commercial purposes. A proper sediment management strategy is required that takes into account environmental risks associated with the sediments as well as identifying appropriate remediation options for use in the urban environment. Furthermore, European legislation increasingly requires the involvement of stakeholders, who may have conflicting viewpoints and concerns. How to manage such complexity? What challenges with regard to the management of contaminated sediments have been met and what experiences gained in port redevelopment cases and urban areas? This will be the topic for the 1st and 2nd day of the SedNet Conference.

Sediment in River Basin Management Plans: The 3rd day of the SedNet Conference will be dedicated to the state-of-the-art on sediment management in river basin management planning. One of the main objectives here is to encourage presentations from ongoing, major EC projects such as AquaTerra, Modelkey, RISKBASE etc. Which sediment related results of these projects may (or should) find their way into river basin management plans or their future updates?

Also an update will be given of the 4th SedNet Conference on sediment management as essential element of River Basin Management Plans, which took place in Venice in 2006. What are recent developments in European River Basins, are sediments considered in management plans? What are experiences and challenges? Are there needs towards European policy?

Call for Abstracts: We would be pleased to receive abstracts for oral and poster presentations in which case studies, especially from Scandinavia, will be explicitly welcomed. The SedNet steering group will select the most appropriate oral presentations that best address the aims of the conference. Furthermore, the SedNet steering group will invite some key note speakers.

Please see www.sednet.org for the template for submission of abstracts by e-mail to the SedNet secretariat:

marjan.euser@tno.nl.

Abstracts should be submitted by October 29th, 2007.

The Programme: Poster sessions will be held during all days. Oral presentations will be divided into 3 to 4 sessions each day. The social programme will include an Ice-Breaker at the Viking Ship museum in Oslo, an excursion to the Oslo Fjord and a Conference dinner. We anticipate the conference programme to be available by December.

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