



REPORT OF THE INTERNATIONAL COMMISSION ON SNOW AND ICE HYDROLOGY (ICSIH) TO THE INTERNATIONAL ASSOCIATION OF HYDROLOGICAL SCIENCES.

For the IAHS Bureau Meeting, Perugia, July 2007

ICSIH Bureau Members (provisional) to 2007

President: Professor John Pomeroy, University of Saskatchewan, Canada & Institute of Geography and Earth Sciences, University of Wales, Aberystwyth, UK

Vice-President: Professor Lev Kuchment, Russian Academy of Sciences, Moscow, Russia

Vice-President: Dr. Daniel Marks, Agricultural Research Service, Department of Agriculture, USA

Vice-President: Dr. Philip Marsh, National Water Research Institute, Environment Canada, Canada

Secretary: Dr. Regine Hock, Uppsala University, Sweden & University of Alaska, Fairbanks, USA

The International Commission on Snow and Ice Hydrology was approved to begin its functions with a provisional bureau at the IAHS Bureau meeting in Foz do Iguacu, Brazil in April 2005. Those listed above agreed to serve this function until formal elections and establishment of the bureau at the IAHS General Assembly in Perugia, July 2007.

Lev Kuchment cannot stand for election as Vice-president, and Dr. Alexander Gelfan, a research scientist of the Water Problems Institute, Russian Academy of Sciences has been nominated as his replacement on the Bureau.

Progress on ICSIH Mission

Activities have included:

- 1.) liaison with UCCS and IAHS executive bureaux on establishment of UCCS and IAHS IUGG programme in Perugia.
- 2.) participation on the IAHS bureau task forces for planning Perugia 2007 and for the Tison Award

- 3.) design and sponsorship of three symposia and workshop for IUGG Perugia 2007:

a) HS1003 Hydrology in Mountain Regions: Observations, Processes and Dynamics

Sponsor ICSIH with co-sponsorship of UCCS, ICRS, ICSW, ICCLAS, ICGW, PUB

Convenor: **Daniel Marks (ICSIH)**

Co-Convenors: **Regine Hock, (ICSIH)** ; Michael Lehning, Switzerland; Robert Gurney, UK; Masaki Hayashi, Canada

b) JWH002 Climate-Permafrost-Hydrology Interactions: The Impact of Changing Climate on Cold Regions Hydrology

Sponsors ICSIH with co-sponsorship of UCCS

Convenor: **Philip Marsh (ICSIH)**; Co-convenors: **Lev Kuchment (ICSIH)**; Tingjun Zhang, USA/China; Oliver Frauenfeld, USA; Tetsuo Ohata, Japan.

c) JWH001 Interactions between snow, vegetation and the atmosphere

Sponsors UCCS, ICSIH, IAMAS-ICPM, iLEAPS and IGS

Convenor: Richard Essery, University of Wales,

Co-convenors: Robert Baxter, UK; **John Pomeroy (ICSIH)**; Matthew Sturm, USA; Takeshi Yamazaki, Japan.

Note that all three sessions will have selected papers published in an ICSIH Special Issue of *Hydrological Processes* and that HS1003 will produce a Red Book.

- 4.) Co-sponsorship of *Alpine *Snow* Workshop*, Munich, Germany, October 5-6, 2006. <http://www.alpinesnowworkshop.org/>
- 5.) planning, organisation and sponsorship of the workshop “Glaciers in watershed and Global Hydrology, to be held in Obergurgl, Austria, 27-31 August 2007. <http://www.usask.ca/hydrology/icsih/obergurgl.htm>
- 6.) publication of a special issue on mountain hydrology in *Hydrological Processes* by our Secretary from the Foz 2005 IAHS Assembly:
Hock, R., G. Rees, M. Williams and E. Ramirez (eds.), 2006. Contribution from glaciers and snow cover to runoff from the mountains in different climates. *Hydrological Processes* 20(10).
- 7.) joint nomination with UCCS of Dr. Arni Snorrason of Iceland for the ICSU International Science Panel on Renewable Energies (ISPRE)
- 8.) co-sponsorship of and contributions to the Snow Model Intercomparison Project for Forests (Snowmip 2) in cooperation with UCCS, <http://users.aber.ac.uk/rie/snowmip2.html>
- 9.) developing strong interactions with the Cryospheric Interest Group of the AGU, the Hydrology Section of the CGU, the Eastern Snow Conference (ESC), the Northern Research Basins (NRB), the International Committee on Arctic Research Planning (ICARPII)
- 10.) contributing international hydrology components of the International Polar Year (IPY) 2007 proposals for Arctic Hydrological Observing System – Arctic Hydra,

- 11.) development of the ICSIH 'logo' shown at the top of this report and website
www.icsih.org

Next Steps for ICSIH

- i) approval of ICSIH by IAHS General Assembly
- ii) first election of ICSIH bureau
- iii) nomination and establishment of national correspondents
- iv) developing mutually beneficial relationships with the anticipated IACS.
- v) Scientific Initiatives on
 - a. mountain snow and glacier hydrology
 - b. cold regions/polar hydrology
 - c. land cover snow hydrology
- vi) running the workshop "Glaciers in watershed and Global Hydrology, Obergurgl, Austria, 27-31 August 2007.
- vii) Editing a special issue of *Hydrological Processes* of selected papers from the three ICSIH sessions at Perugia
- viii) development of sessions for the IAHS Scientific Assembly in Hyderabad, particularly those relating to 'Asian Mountain Hydrology' and 'Land Cover Impacts on Snow Hydrology'.