

Minutes:

Plenary Session of the IUGG Commission for the Cryospheric Sciences, UCCS Perugia, Italy (IUGG General Assembly) 12 July, 2007

Rectorate Building, University of Perugia, Piazza dell'Università 1, IT-06123 Perugia,
Italy, Meeting Room VIII

1. Opening Remarks

The President *Georg Kaser* opened the Plenary session at 17.45 and welcomed everybody. He commented on the large attendance despite competing events. The President explained that the Plenary that would normally contain voting for a new bureau, this time would be very informal; the new bureau is appointed by the IUGG. The President provided a view of the UCCS activities at the Perugia Plenary which is much stronger than what has been achieved while acting as a regular Commission. This indicates that the new status provides more room to manoeuvre and improve scientific activities.

2. Montreal Joint IAMAS/IAPSO/IACS Assembly, 2009

The President reported on the upcoming Assembly and informing about the upcoming call for ideas for workshops and symposia.

3. ICSI/IACS History

The Past President *H. Gerald Jones*, has written an extension of Uwe Radok's history of ICSI (available at www.cryosphericsscience.org). The Past President provided a short overview of the events that has led to the development of IACS and its predecessors. This account will be published in the Annals of Glaciology volume covering the Perugia Assembly. The President *Georg Kaser* provided a short presentation of the new Association (**APPENDIX A**)

4. Award to Past President H. Gerald Jones

The UCCS bureau awarded Past President *H. Gerald Jones* for his outstanding services to the Bureau. The award was manifested by an engraved Mont Blanc Pen.

5. IGS letter of congratulations

IGS Secretary General *Magnus Magnusson* read a letter of congratulation from the IGS President *Atsumu Ohmura*, who unfortunately could not attend the Plenary. The letter is reproduced in its entirety in the **APPENDIX B**.

6. IACS Mission

The UCCS Secretary/treasurer presented a short overview of the mission of the IACS based on the stated missions in the IACS statutes. WDC President *Roger Barry* expressed the wish from the World Data Centers to obtain formal support. It is clear that this is an activity which can be improved in the future under IACS.

7. Closure

The President closed the meeting at 18.15, July 12, 2007 by providing the audience with a visual reminder of the acronym IACS; think of a herd of Yaks!

This constitutes the end of the ICSI/UCCS Era.

Peter Jansson
Secretary UCCS

Georg Kaser
President UCCS

IACS



International Association of Cryospheric Sciences

*(formerly ICSI (IAHS) and the intermediate **UCCS**)*

.... is now the 8th Association within the IUGG



UCCS scientific contributions to the IUGG Assembly Perugia

- **Observations of the Cryosphere from Space** [Drinkwater, Velicogna, Steffen]
- **Interactions between snow, vegetation, and the atmosphere** [Essery, Baxter, Pomeroy, Sturm, Yamazaki]
- **Debris Transport in Glaciers** [Hambrey, Hubbard]
- **Natural ice microstructures** [Brzoska, Schneebeli, Adams, Etchevers, Fierz]
- **Ice cores and Climate** [Dahl-Jensen]
- **Glacier fluctuations in the Asian High Mountains** [Smiraglia, Solomina, Ren, Shresta, Mayer]
- **Consequences of Large Scale Circulation Variability on Snow and Ice Extent** [Painter, Jansson]
- **Snow Avalanches – Field Observations and Modelling** [Kleemayr, Schaffhauser, Sovilla, Luzi, Eglit]
- **Extraterrestrial Ice** [Lange, Greve]
- **Ice –Volcano Interactions** [Brock, Rivera, M. Gudmundsson]
- **Cryosphere: Observations, processes, and future evolution** [H. Gudmundsson, Kaser, Holland]



IACS



International Association of Cryospheric Sciences

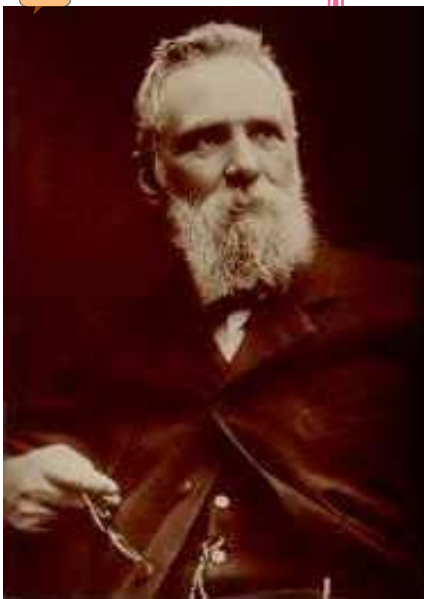
*„from the golden egg through the ugly duckling to the snow-white cryospheric swan“ *)*

PAST

THE FUTURE?

**Immediate Past President
H. Gerald Jones**

**) P. Jansson, 2007*



1894 Commission Internationale de Glacier

François Alphonse Forel

Prince Roland Bonaparte

Captain Marshall Hall



Radok, U. (1997):

The International Commission on Snow and Ice (ICSI) and its precursors, 1894 - 1994.

Hydrological Science Journal, 42(2): 131-140.



International Association of Cryospheric Sciences



1894 Commission Internationale de Glacier at the 6th International Geological Congress Zurich

CLIMATE

Objective:

„The growing attention devoted to **meteorological data** opens for us a **research field** on the subject of **influence of climate** on the history, as much ancient as modern, of **variations in the size of glaciers**“

The internationally coordinated collection of information about ongoing glacier changes

„Les variations périodiques des glaciers“



International Association of Cryospheric Sciences



Glaciological Commission in IUGG International Section of Hydrology

WATER

1920s: Geological Congress Bureau showed no interest in reorganising CGI

Axel Hamberg (CIG WW-I President) approached Section of Hydrology

1927: IASH Glacier Commission



**Antoni Bolesław
Dobrowolski**
GC Vice President 1936

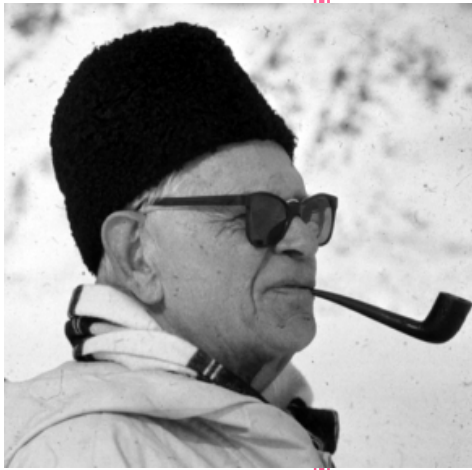
VI IUGG Gen. Assembly – Edinburgh 1936
Joint Symposium of the
International Commission on Snow
and the
International Glacier Commission

Dobrowolski:

„Association de Cryologie“

- universality of ice
- singularity of ice
- methodology of study of ice

But: 1939: **IASH** Commission on Glaciers and Snow



Hans W:son Ahlmann
ICSI President 1948 - 1951

...(his).... Maudheim Expedition (1949 – 52)
became a prelude to the International
Geophysical Year

IGY 1957/58

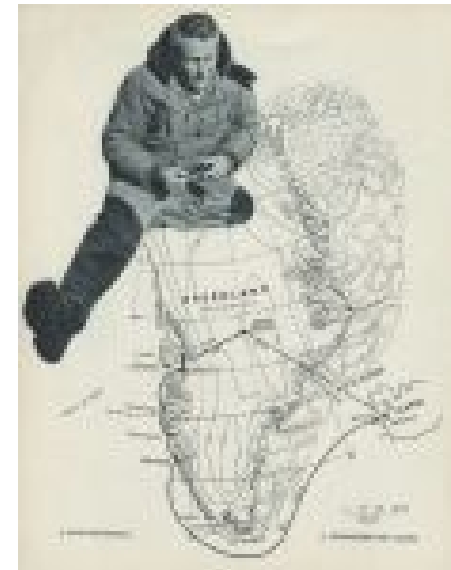
which dominated the thoughts and discussions
of ICSI

Under the umbrella of ICSI:
Expédition Glaciologique Internationale
au Groenland



EGIG 1 1959-60

EGIG 2 1967-68





UNESCO IHD/IHP

Studies of **combined water, ice and heat budgets** of selected glacierized basins

1970s on

wgms
+ + + +

World Glacier Monitoring Service

Radok, U. (1997):

The International Commission on Snow and Ice (ICSI) and its precursors, 1894 - 1994.

Hydrological Science Journal, **42**(2): 131-140.

Liz M. Morris H. Gerald Jones
ICSI Presidents 1995 – 2005

2001: ICSI Task Force

2003: Sapporo IUGG General Assembly

2004: IUGG EC Meeting Boulder, CO

UNION COMMISSION FOR THE CRYOSPHERIC SCIENCES
as an intermeditate state



2007: Statutes and Bylaws

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IACS



International Association of Cryospheric Sciences

.... is now the 8th Association within the IUGG

IUGG ASSEMBLY CLOSING CEREMONY FRIDAY

celebrating the 1st new Association in 85 years

16:00

IACS



International Association of Cryospheric Sciences

IACS



International Association of Cryospheric Sciences

hereby commends **H. GERALD JONES**

for his outstanding service to the Association

A handwritten signature in black ink, consisting of a large, stylized 'G' followed by a horizontal line that tapers to the right.

Georg Kaser
IACS President

A handwritten signature in black ink, featuring a large, stylized 'M' with a long, horizontal tail that curves slightly upwards at the end.

Manfred Lange
IACS Secretary General

The proposed 1st Bureau of:

IACS



International Association of Cryospheric Sciences

President (2007 - 2009)
President „elect“ (2009 - 2013)
Vice Presidents (2007 - 2011)

Secretary General (2007 - 2011)

Heads of Divisions (2007 - 2011)

I: Snow and Avalanches

II: Glaciers and Ice Sheets

III: Marine and Freshwater Ice

IV: Cryosphere, Atmosphere and Climate

V: Planetary and other Ices of the Solar System

Georg Kaser (Austria)*

Ian Allison (Australia)

Kumiko Goto Azuma (Japan)

Gino Casassa (Chile)

Peter Jansson (Sweden)

Manfred Lange (Germany)

Charles Fierz (Switzerland)

Julian Dowdeswell (UK)

Claude Duguay (Canada)

Valérie Masson Delmotte (France)

Ralf Greve (Japan)

* elected as President of ICSI for 2005 - 2009

THE MISSION

- Promote Cryospheric studies
- Facilitate collaboration on different levels nationally and internationally
- Promote international discussion, and publication
- Promote education and public awareness
- Facilitate standardization, data collection and archiving
- Complement existing structures (IGS, AGU, EGS)



YAKS YAKS IACS

www.cryosphericosciences.org



courtesy: Xu Jianchu (IGIMOD)
23 April 2007



International Association of Cryospheric Sciences

Dear Mr President, bureau members and all members of the new association:

On behalf of the International Glaciological Society I would like to congratulate you on the establishment of a new Union Association dedicated to the Cryosphere. You have finally obtained an Association that is dedicated to the promotion of the science of snow and ice. Its predecessor, ICSI, was one of the oldest commissions within the union, and certainly one of the most scientifically active commissions of IAHS. The outstanding scientific accomplishments and enthusiasm of glaciologists contributed greatly to the emergence of the new Association. In this sense the birth of IACS is a victory and an important asset for the future progress for all glaciologists.

We must remember that certain individuals contributed enormously and worked hard in unseen places to reach this goal. They truly deserve a hearty thanks and admiration from all glaciologists. At the same time we must consider the situation of IAHS that the new Association has left. It is important that the IAHS maintains a modest area of the research of snow and ice, as the hydrological cycle without the Cryosphere is inconceivable. We must remember that the Cryosphere is located at the intersection between the atmosphere, the hydrosphere and the lithosphere. If IAHS needs any assistance in this regard, we are ready to help at any time. We wish the Association a productive and brilliant future.

The International Glaciological Society is happy to pursue the common goals through cooperation with the new association for the benefit of glaciologists worldwide.

Yours sincerely,

Professor Atsumu Ohmura

President