



**INTERNATIONAL ASSOCIATION FOR HYDRAULIC RESEARCH**

**DIVISION II – SECTION 1:  
HYDRAULIC MACHINERY AND SYSTEMS**

**SECTION EXECUTIVE COMMITTEE  
JUNE 29, 2004 – STOCKHOLM, SWEDEN**

**MINUTES OF THE MEETING**

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## **A) AGENDA:**

- 1. OPENING**
- 2. MINUTES OF PREVIOUS EC-MEETING**
  - Minutes of the Lausanne meeting
- 3. 21st SYMPOSIUM IN STOCKHOLM**
  - Report of the organizing committee (Mr. WOLLSTROEM)
- 4. MEMBERS of the SECTION EXECUTIVE COMMITTEE**
  - Resignation and Nomination
- 5. REPORTS FROM WORKING GROUPS**
- 6. CONTRIBUTIONS TO THE IAHR JOURNAL**
- 7. 23rd SYMPOSIUM IN JAPAN**
  - Introduction of the organizing committee (Prof. KUROKAWA)
- 8. 24th SYMPOSIUM IN BRASIL?**
  - Status of the contacts
- 9. 31st BIENNIAL IAHR CONGRESS IN SEOUL September 11-17, 2005**
  - - Theme B Urban and Industrial flows
    - B1: Internal Flows in industrial systems
    - B2: Security of water resources and water services
    - B5: Flows in water supply pipe networks
    - B6: hydro-machinery and fish passage.
  - - Special seminar on renewable energy. Invitation for the Section to co-ordinate a special seminar in Seoul (as part of the IAHR biennial) on "Renewable Energy - Wave or Tidal". Prof. Egusquiza will be the Convenor for this seminar.
- 10. 32nd IAHR CONGRESS WILL BE IN VENICE July 2007**
- 11. ACTIVITIES OF THE SECTION**
- 12. MEMBERSHIP PROMOTION**

## B) ATTENDEES

<b>Name</b>	<b>Affiliation/Country</b>
Prof. Francois Avellan (Chairman)	EPFL, Switzerland ,
Prof. Hermod Brekke	Consultant Trondheim, Norway,
Mr. Normand Desy	GE Hydro, Canada,
Prof. Eduard Egusquiza (Secretary)	UPC Barcelona,
Mr. Richard K. Fisher	Voith Hydro Inc., USA,
Mr. Jean-Jacques Hérou (a.i. France)	EDF, France,
Prof. Junichi Kurokawa	Yokohama National University, Japan,
Prof. Tsukamoto (Repl. Prof. Kurokawa),	
Prof. Romeo Resiga	University of Timisoara, Romania,
Prof. Rudolf Schilling	Uni. of Technology, Munich, Germany,
Mr. Ulf Wollström	Vattenfall, Sweden.

## C) MINUTES OF THE MEETING

### 1 OPENING

The meeting was opened at 5PM by the Chairman, Prof. Avellan. The following EC members informed that were unable to attend the meeting:

- Mr. Alfred Lang, ASTRÖ, Austria;
- Prof. Aleksandar Gajic, University of Belgrade, Yugoslavia;
- Mr. Patrick Huvet, France;
- Mr. Philip Seguin (substituted by Mr. Desy), Canada;

Any information was provided by the following members:

- Mr. Giuseppe Angelico, ENEL, Italy;
- Prof. Jose Cataldo, Uruguay;
- Mr. Huang Yuanfang, China;
- Dr. A. Sotnikow, Russia.

#### Agenda

The agenda (see above)) was handed out by the Chairman and agreed upon by the attendees.

### 2 MINUTES OF PREVIOUS EC-MEETING

The minutes of the last meeting held on September 9, 2002 in Lausanne, Switzerland, were adopted without modification.

### 3 22<sup>nd</sup> SYMPOSIUM IN STOCKHOLM

Mr. Wollström, the Chairman of the Organizing Committee, outlined the details of the Symposium's organization, publications and registrations.

There are XXX registered participants of the Symposium representing suppliers, universities, owners and operators, consultants and service.

The papers and other information are issued as a CD.

On behalf of the EC, Prof. Avellan thanked the organizers for their efforts and the time spent for preparation.

*(Still some information to be provided by Mr. Wollström are missing)*

### 4 STATUS FOR MEMBERSHIP OF SECTION EXECUTIVE COMMITTEE

Canada: After the resignation of Mr Seguin, the Committee welcomed Mr. Normand Désy as the new representative for Canada

Japan: Prof. Kurokawa resigned and introduced Prof. Tsukamoto as new representative for Japan

Romania: The Chairman introduced Prof. Resiga as representative of Romania

France: a successor to Mr. Huvet was not yet designated. Prof. Avellan thanked Mr. Jean-Jacque Hérou to agree to be the ad interim representative for France.

Currently, the Executive Committee was missing members from China, Italy, Russia, UK and Uruguay. The Chairman suggested that the members of the Executive Committee sought for new active representatives.

Messrs Angelico, Cataldo Sotnikov and Huang are no longer participating actively to the Section Executive Committee and it is asked to the Secretary, Prof. Egusquiza, to get some news from those members.

*Seek for New  
Active  
Representative*

## 5 REPORTS FROM WORKING GROUPS

### **Working Group No. 1: Behavior of hydraulic machines under steady oscillatory conditions. Coordinator: Professor H. Brekke**

Professor Brekke mentioned that the working group already has a long history starting with Prof. Fanelli and continued by Prof. Guarga. The last working group meeting in Stuttgart (2003) was attended by roughly 40 engineers from 12 countries. Several very interesting contributions were delivered and discussed. Prof Brekke, was suggested to close this Working Group. He gave to the Section Chairman a CD collecting all the papers presented during the meetings of the WG1.

### **Working Group No. 2: Rules of similitude for cavitation model testing of hydraulic machines. Coordinator: Professor François Avellan**

No activity was reported during the period

### **Working Group No. 3: Scale effects on performance and efficiency of hydraulic turbo machines Coordinator: Professor Rudolf Schilling**

No activity was reported during the period

A discussion was held on the opportunity to merge all the 3 working groups within a single one, which will focus on new topics on unsteady phenomena in hydraulic machinery and systems.

## 6 RELATIONSHIP WITH IAHR BODY

To enhance the collaboration with the IAHR Body, some activities were presented and discussed. The most important were:

Promotion of the participation to the next 31<sup>st</sup> IAHR Congress. The Symposium will be held in Seoul, Korea in September 11-17, 2005. A Workshop on "Renewable Energy, wave/tidal" will be organized with Prof Egusquiza as Convenor

Preparation of a special issue (annual) on Hydraulic Machinery and Systems in the IAHR journal. The objective would be to attract more interest from young researchers working in this field and increase membership and participation in Symposia. The Steering Committee

*See letter  
from Prof.  
Avellan to  
Prof. Garcia,  
Editor of  
Journal of  
Hydraulic  
Research,  
who never*

will be Prof. Schilling and Prof. Egusquiza. This possibility will be *answered!*  
discussed with the IAHR Body.

## **7 23<sup>RD</sup> SYMPOSIUM**

The 23<sup>rd</sup> Symposium will be held in Yokohama (Japan) October 17-21, 2006. Prof. Kurokawa as the Chairman of the Organizing Committee was going to make an official announcement of the 23rd Symposium in the course of the Closing Ceremony on June 31, 2004. He introduced the initial program of activities with the post-symposium tour and a presentation of Yokohama city and its surroundings.

## **8 24<sup>TH</sup> SYMPOSIUM**

The 24<sup>th</sup> Symposium (2008) is planned to be in Brasil.

In any case, Prof. Resiga proposed Romania as a candidate to organize a future Symposium. The Section executive Committee thanked Prof. Resiga for his proposal and accepted it.

## **9 31<sup>ST</sup> IAHR CONGRESS, SEOUL, KOREA**

The 31<sup>st</sup> IAHR Congress will take place in Korea 2005. The section members were encouraged to attend and contribute papers to the Conference. Prof. Avellan reminded that, according to an internal investigation, the majority of Section II/1 was not in favor of holding the Symposia together with the IAHR Conferences as suggested by the Division Chairman.

Prof Egusquiza, will be the official representative of the section to the Congress since he is participating as convenor on a Workshop on "Renewable Energy, wave/tidal".

## **1032<sup>ND</sup> IAHR BIENNIAL IAHR CONGRESS**

Prof. Egusquiza confirmed that the 32<sup>nd</sup> Biennial IAHR Congress will be held in Venice, Italy, in 2007.

## **11 ACTIVITIES OF THE SECTION**

To promote the activities of the Section, It was decided to close all the 3<sup>rd</sup> previous working groups and a build up a new Working Group with the name:

- "Cavitation and Dynamic Problems in Hydraulic Machinery and Systems".

*New working  
Group*

The leader will be Dr. A. Ruprecht of the University of Stuttgart in Germany.

It is also decided to create a New Steering Committee for the promotion of the Section Education and Research Activities. The initial members of this committee will be Messrs Wolfström, Hérou, Keck and Avellan. Other members will be incorporated.

*New Steering  
Committee for  
E&R Activities*

## **12 MEMBERSHIP PROMOTION**

For South America, Prof. Avellan announced that he will contact the Latin America Committee of Hydraulics to have suggestion for new memberships.

For Iran Prof. Avellan suggested that Mr Kiani could be a possible member.

For India members were asked to perform some prospects.

## **13 ADJOURNMENT**

Adjournment took place on June 29, 2004, at 7 PM