



DIPARTIMENTO DI INGEGNERIA CIVILE, AMBIENTALE E DEI MATERIALI – DICAM

ALMA MATER STUDIORUM – UNIVERSITA' DI BOLOGNA

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Bologna, May 10, 2011

Re: Report of the activities carried out in Italy referring to the International Association of Hydrological Sciences during the period 2007-2011

The Italian activity referring to the International Association of Hydrological Sciences (IAHS) has been carried out by the scientific community that refers to hydrological sciences. The period 2007-2011 started soon after the XXIV General Assembly of IUGG that took place in Perugia and has been organised by the IUGG National Committee for Italy. The assembly was a success both in terms of participation and efficiency of the local organisation. Figure 1 reports a summary of some statistics related to the attendance (information taken from the official “Comptes Rendus” that can be downloaded at the web address <http://www.iugg2007perugia.it/custom.asp?inAct=V&inObj=106&>).



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**ASSEMBLY REGISTRATION BY ASSOCIATION**

**IUGG 2007 Perugia – Summary**

	<b>OTHER</b>	<b>IAGA</b>	<b>IAG</b>	<b>IAHS</b>	<b>IAMAS</b>	<b>IAPSO</b>	<b>IASPEI</b>	<b>IAVCEI</b>	<b>Total</b>
Web-site users	2347	1014	648	1106	1049	394	797	368	<b>7723</b>
People arrived at Perugia	1216	669	399	505	636	265	458	227	<b>4375</b>
- Participants	537	531	278	302	454	201	338	146	<b>2787</b>
- Students	453	134	119	183	179	62	114	78	<b>1322</b>
- Free admittances (staff, exhibitor, press, etc)	226	3	2	20	3	2	6	3	<b>265</b>

Figure 1: statistics related to the attendance at the XXIV IUGG General Assembly – Perugia 2007. From: Comptes Rendus of the assembly (<http://www.iugg2007perugia.it/custom.asp?inAct=V&inObj=106&>).

During the 2007-2011 period the activity that refers to IAHS has been particularly significant. Besides the organisation of important scientific events that took place in Italy (Capri 2008 and Taormina 2010, more details are reported here below), the Italian scientific community of hydrological sciences has promoted a new working group of IAHS, namely, “Statistics in Hydrology” (STAHY). The working group has been promoted by prof. Salvatore Grimaldi (University of Tuscia). More information can be found in the official STAHY web site, at the internet address <http://www.stahy.org>. The success of STAHY has been unanimously recognised, to the extent that IAHS is planning to promote the working group to the status of IAHS Commission. The related proposal will be formalised during the next IUGG General Assembly that will take place in Melbourne. A more detailed description of the activity carried out by the STAHY working group follows here below.

**Organization of conferences and workshops**

From 14 to 16 October 2008 the symposium “The Role of Hydrology for Water Resources Management” has been organised in Capri, during which the workshop “New Statistical Tool in Hydrology” has been also organised. During this latter workshop the IAHS working group STAHY has been officially proposed. Both the symposium and the workshop were very well attended by the international scientific community of hydrology.

From 23 to 25 May 2010 the international workshop “Advances in Statistical Hydrology”, that took place in Taormina, has been organised by the STAHY working group. Attendance was very satisfactory in this case as well.

**Working Group “Statistics in Hydrology” (STAHY)**



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The STAHY working group of IAHS organised several workshops and short courses in the period 2007-2011, as well as web sharing activities. Today 72 participants are registered to STAHY, from 29 different countries. The activity of STAHY is described in detail in the web site [www.stahy.org](http://www.stahy.org). In particular, the following events were organised:

13-15 October 2008 - Capri

Workshop "New Statistical Tools in Hydrology"

15-19 December 2008 - San Francisco, USA

AGU Fall Meeting Session H76:

"Recent Development of Statistical Tools for Hydrological Application"

Convener: Salvatore Grimaldi, Demetris Koutsoyiannis, Domenico Piccolo, MeKonnen Gebremichael

19-24 April 2009 - Vienna, Austria

EGU Scientific Assembly Session HS1

"Recent Development of Statistical Tools for Hydrological Application"

Convener: Salvatore Grimaldi, Demetris Koutsoyiannis, Antonino Cancelliere, MeKonnen Gebremichael.

20-24 July 2009 - New York City, USA

Columbia University - Polytechnic Institute of New York University

School of Statistical Hydrology - Short course 2009 "Copula Function: theory and practice"

6-12 September 2009 - Hyderabad, Andhra Pradesh, India,

8th IAHS Scientific Assembly & 37th IAH Congress - Workshop HW.7

"New statistics in hydrology"

Conveners: Salvatore Grimaldi, Demetris Koutsoyiannis, Domenico Piccolo, George Kuczera,

2-7 May 2010 - Vienna, Austria

EGU Scientific Assembly Session HS/NP6: "Stochastics in hydrometeorological processes: from point to global spatial scales and from minute to climatic time scales"

Convener: D. Koutsoyiannis, Co-Conveners: A. A. Cârsteanu, S. Grimaldi, E. Todini

23-25 May 2010 – Taormina

STAHY OFFICIAL WORKSHOP "Advances in statistical hydrology"

5-7 July 2010 - Quebec City, Canada

Water 2010 - Hydrology, hydraulics and Water Resources in an Uncertain Environment



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Special Sessions: Multivariate frequency analysis of hydrological variables - Convener: Fateh Chebana  
Regional frequency analysis of hydrological variables - Convener: Taha Ouarda

Moreover, STAHY promoted the initiative “Monthly updating reference” which aims to collect scientific references that are relevant for the activity of the Group.

### **Participation at IAHS scientific initiatives**

The Italian scientific community of hydrological sciences has actively participated to the scientific initiative “Predictions in Ungauged Basins”. In detail, 2 working groups were established in Italy (working group 5 and working group 7) and are coordinated by Italian scientists, while many Italian scientists are participating to the activity of other working groups that were established in other countries. Overall, the activity produced very interesting scientific results in terms of both publications and citations.

Alberto Montanari

National Representative for Italy within the International Association of Hydrological Sciences