



Technical Division I: Methods in Hydraulics

Section on Education and Professional Development (EPD)

Minutes of the Section Meeting

1. Location and time

Vancouver, Canada, August 11, 2009, 12.30 – 13.50 pm during the XXXIII IAHR Congress

2. Participants

- M. Altinakar, Oxford / Mississippi
- A. Armanini, Trento / Italy
- J.-P. Chabard, Clamart Cedex / France
- R. Ettema, Laramie / Wyoming
- R. Hinkelmann, Berlin / Germany, chairman of the section
- T. Bleninger, Karlsruhe / Germany
- A. M. da Silva, Kingston / Canada
- P. Godwin, Moscow / Idaho
- P. Gourbesville, Nice / France
- R.-H. Hotchkiss, Provo / Utah
- G. Jirka, Karlsruhe / Germany
- J. Jozsa, Budapest / Hungary
- H. Kobus, Stuttgart / Germany
- F. Molkenhain, Cottbus / Germany
- G. Palau Salvador, Valencia / Spain
- I. Popescu, Delft / The Netherlands

3. Welcome and excuses

The chairman welcomed the participants and excused the absence of the new secretary, Prof. Michele Mossa, Technical University of Bari, Italy who could not attend the Congress due to urgent personal reasons. The chairman introduced Michele Mossa to the audience reporting about his CV and the IAHR Multimedia Library which has been developed by him.

Further cancellations for this meeting came from Prof. Park, Korea and Prof. Falconer, UK who wants to remain a section member.

4. Minutes of the Venice Congress

The minutes were approved.

5. Activities of EPD

The activities mainly focussed on the preparation of the Vancouver Congress (Topic F, JFK Student Paper Competition), the IAHR Multimedia Library and further education courses within the EGW framework. A detailed activity report about the period July 2007 until July 2009 was

presented and discussed. An updated version of this report is in the appendix.

6. Leadership Team

For the transition of EPD into the new IAHR structure as a committee within the new Division 3: 'Innovation and Professional Development', a leadership team must be established. The chairman reported that Michele Mossa would like to stay as secretary – being called Vice-Chair in the new structure. The following persons agreed to join the Leadership Team: Rob Ettema, Ilona Popescu, Frank Molkenthin and Guillermo Palau Salvador. It was recommended to search for two further members, one from Asia and one from Latin America, to have a well-balanced regional distribution in the Leadership Team and to account for these two important continents.

A new chair has not been elected yet. As Reinhard Hinkelmann was elected into the new Council of IAHR, it was urgently recommended by IAHR representatives not to continue additionally as a chair of the new committee. Reinhard Hinkelmann briefly talked about this topic with Michele Mossa before the congress when the Council election was not finished whether Michele Mossa would like to become a candidate for the new chair. In that talk, Michele Mossa did not make neither a clear consent nor a clear rejection. The current chair and all participants agreed that Michele Mossa did an excellent job concerning the IAHR Multimedia Library and they are convinced that Michele Mossa will be an excellent candidate for the new chair.

Until having found a new chair, Reinhard Hinkelmann will further lead the committee. Afterwards, he will become past chair staying an active member of the Leadership Team.

7. Committee name

After a discussion it was decided to keep the old name 'Committee on Education and Professional Development' (EPD) instead of the suggested name 'Professional Education and Training'. EPD better reflects that academic education is an important part of this committee.

8. Status of new EPD

The new Committee EPD will have the same status as all other committees of the Divisions 1 and 2. This also includes the circumstance that the IAHR members can give a full or half a vote to this committee. The chairman suggests that the participants should give at least half a vote to EPD.

9. Engineering Graduate School Environment Water (EGW)

As mentioned in the activity report, five courses have been carried out in the last two years. A further course is announced at TU Berlin about 'Modeling of Flow, Transport and Reaction Processes in Surface Waters' from September 28 until October 2, 2009. Most of the remaining successful courses run under an annual or bi-annual basis. They have in common that they aim at higher education, that they are of high quality and that they foresee a national or international lecturer team. The transition of EGW from the European to a global dimension has not been as successful as expected.

As there are running different further education activities within the other IAHR committees, Reinhard Hinkelmann will contact the new chairs to put these activities under the EGW umbrella. Lecturers are encouraged to open their specialized PhD courses also to students of other EGW partners and to announce them to EGW which will spread this information.

As the exchange of students is ongoing and increasing in Europe within the Bologna process and as the academic recognition of courses from other universities has become easier in the last years, EGW activities will be maintained in the future and they will possibly be relaunched. For improving the academic recognition, it will be helpful to indicate in the course flyers which universities or programs already have recognized the courses.

The remaining money of 4932,- € will be kept to support EGW / EPD activities or to support

students to join the next IAHR congresses, especially for active EGW partners.

10. Student chapters

Peter Godwin briefly spoke about the student chapters. A new task force headed by Marian Muste has been initiated by the Council to improve the situation in the student chapters and their participation in the IAHR congresses.

11. Master classes

Ana Maria da Silva reported about the Master classes which she organized with further colleagues for the Vancouver Congress. Details are given in the appendix.

For the next IAHR congress in Brisbane, EPD will try to initiate Master classes. In the mean-time, there was a discussion with Hubert Chanson who is in charge of organizing the Brisbane Congress. He informed us about the financial boundary conditions of the Brisbane Congress and about the circumstance that IAHR organizes this congress with other organizations. Therefore, the local organizers cannot provide financial support possible for master classes. Financial support must come from other resources.

12. JFK Student Paper Competition at Brisbane Congress

In the talk with Huber Chanson it was agreed that EPD will organize this competition in collaboration with the local organizers from the Brisbane Congress. The regulations should be made clear until June 2010. EPD will prepare a document concerning the regulations.

13. IAHR Multimedia Library

Reinhard Hinkelmann gave a presentation prepared by Michele Mossa about this library which has been developed by Michele in the last years. The participants agreed that this library is a very valuable resource for education in the hydro-sciences. A report about the Multimedia Library is given in the appendix.

For the future of this library, the audience made two suggestions. First, it should be checked what kind of further multimedia documents (figures, videos etc.) already exist among IAHR members to include them into the library. Further it should be checked whether the users of the library are already IAHR members or could be motivated to become IAHR members, especially if the large number of users from North America is considered.

14. New water related networking activities

Aronne Armanini presented a new database about 'Doctoral Research in Hydraulics - European Doctoral Students and Subjects' where students can register under www.iahr.eu to come into contact with PhD students with similar subjects.

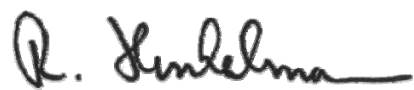
Via the IAHR web-page, there is a direct link to the Facebook initiative IAHR Young Professionals which is a group established by IAHR for young researchers in all aspects of hydraulic and water engineering and environmental sciences to enhance contacts and exchange experiences and knowledge, see www.facebook.com/group.php?gid=8630407386&ref=share.

IWA has started a Wikipedia for water, see <http://water.wikia.com>.

15. Upcoming IAHR congresses

EPD will contribute to the upcoming IAHR congresses. The activities will be planned in the next months.

August 24, 2009

A handwritten signature in black ink, appearing to read 'R. Hinkelmann', with a small dot above the first letter 'R'.

R. Hinkelmann

Appendix: - Activity Report July 2007 – July 2009
 - Master classes before Vancouver Congress



Technical Division I: Methods in Hydraulics

Section on Education and Professional Development

Activity Report July 2007 – July 2009

1. New Secretary

- Prof. Michele Mossa, Technical University of Bari, Italy; email vote January 2008

2. Minutes and Hydrolink Contributions

- Minutes of SEPD Meeting of XXXII IAHR Congress in Venice, 1 July, 2007
- Report about that meeting by R. Hinkelmann & A. Armanini in Hydrolink 01/2008 together with introduction of new secretary
- IAHR Media Library: A New Area Devoted to Teaching Tools has been Launched by M. Mossa in Hydrolink 03/2008

3. Web Pages

- Update see: www.iahr.org; general information (scope, agenda, section officers, ...)
- Update see: www.wahyd.tu-berlin.de/menue/weiterbildung/iahr_epd/ specific information (members, EGW courses, ...)

4. Member Lists

- Update EPD list, see also www.wahyd.tu-berlin.de/menue/weiterbildung/iahr_epd/epd_members/
- Update EGW list, see also www.wahyd.tu-berlin.de/menue/weiterbildung/iahr_epd/egw_members/

5. EGW Courses

Courses carried out in the reporting period:

IAHR-EGW Short Course: 'Multiphase Flow, Transport and Bioremediation in the Subsurface' Date: Sep. 10 - 14, 2007

University of Stuttgart, Germany

Directors: Prof. A. Cunningham, Montana State University; Prof. R. Helmig, University of Stuttgart

Email: [Mrs. A. Assteerawatt](mailto:Mrs.A.Assteerawatt)

website: www.iws.uni-stuttgart.de/weiterbildung/kurse/index.html

IAHR-EGW Short Course: 'Modeling of Hydrosystems'

Date: 8-12 October 2007

Technische Universität Berlin, Germany

Directors: Prof. R. Hinkelmann, Dr. F. Molkenhain,

Lecturers : varius from Germany
Email: reinhard.hinkelmann@wahyd.tu-berlin.de
Webpage: <http://www.wahyd.tu-berlin.de/>

Course: Data-driven and Physically-based Models for Characterization of Processes in Hydrology, Hydraulics, Oceanography and Climate Change

Date: 7 - 27 Jan 2008

National University of Singapore, Republic of Singapore

Co-chairs: S. Esterby (University of British Columbia), H.-R. Künsch (ETH Zurich), S.-Y. Liong (National University of Singapore)

Email: imssec@nus.edu.sg

Webpage: <http://www.ims.nus.edu.sg/Programs/ocean07>

Summer School: Complex Flows, Turbulence, Morphodynamics and Ecology in Rivers

Date: 25 - 29 Aug 2008

Delft University of Technology, Netherlands

Organizers: W. Uijttewaal (Delft Univ. of Technology), K. Blanckaert (Delft Univ. of Technology)

Email: w.s.j.ujttewaal@tudelft.nl, koen.blanckaert@epfl.ch

Webpage: <http://www.citg.tudelft.nl>

Summer School on Environmental Fluid Mechanics

January 4-10, 2009

Faculty of Physical and Mathematical Sciences, Universidad de Chile, Sanitiago, Chile
Organizer: Prof. Y. Nino (Universidad de Chile)

Lecturers: Prof. G. Jirka (University of Karlsruhe), Prof. P. Davies (University of Dundee), Prof. G. Lawrence (University of British Columbia), Prof. H. Nepf (MIT), Prof. R. Stocker (MIT), Prof. A.J. West (Swiss Federal Institute of Aquatic Science and Technology)

email: ynino@ing.uchile.cl

webpage: <http://www.ingcivil.uchile.cl/efm>

Upcoming course:

IAHR-EGW and TTP Wasser Short Course: 'Modeling of Flow, Transport and Reaction Processes in Surface Waters'

Date: 28 September - 2 October 2009

Technische Universität Berlin, Germany

Director: Prof. R. Hinkelmann

Lecturers: various from Berlin and Germany

Email: reinhard.hinkelmann@wahyd.tu-berlin.de

Webpage: <http://www.wahyd.tu-berlin.de/>

6. Activities in the Vancouver Congress

- Participation in shaping the role of education in the program
- Advertising the Vancouver Congress, especially Topic F

- R. Hinkelmann: Lead Coordinator **Topic F: Education, History, Social / Economic Impacts**
- R. Hinkelmann and M. Mossa: Chairs together with Dr. Peter Steffler, Alberta and Dr. David Zhu of **Track F1: Fundamentals, Expts, Modeling, Instrumentation**: 12 abstracts, 5 papers accepted for oral presentation; Session Moderators: R. Hinkelmann and Dr. Frank Molkenhain, Cottbus, Germany
- R. Hinkelmann and Dr. Francois Ancill Lavall, Canada: Chairs of **Track F3: History: Engineering Applications & People**: 14 abstracts, 5 papers accepted for oral presentation; Session Moderators: Dr. F. Molkenhain and M. Mossa
- Dr. Ioana Popescu, UNESCO-IHE, Delft, The Netherlands and Dr. Alistair MacKenzie, Canada: Chairs of **Track F2: Hydroinformatics**: 8 abstracts, 5 papers accepted for oral presentation
- **John F. Kenedy Student Paper Competition**: after pre-selection review of 33 abstracts by M. Mossa and R. Hinkelmann and suggestions for 14 oral and 14 poster presentations; small further reduction of presentations; Judge for the Oral Presentation Division: R. Hinkelmann

7. IAHR Media Library

- www.iahrmedialibrary.net/, see contribution in the appendix

8. EPD/EGW money

- 4932 €, no expenses in reporting period

9. Further Items

- Discussion about name change
- Discussion about quality of PhD thesis -> Ethics Committee
- Candidate for Council Member
- Limited time: no contribution to university rankings and WWF



Technical Division I: Methods in Hydraulics
Section on
Education and Professional Development

Agenda

**Meeting Vancouver, Tuesday 12 August, 12.30 – 13.30,
Room Brighton**

- 1. Minutes of the Venice Congress
- 2. Activities of the section
- 3. Transition to the new committee structure: General information
- 4. Election of Leadership Team, Chair and Vice-Chair
- 5. EGW
- 6. Student chapters
- 7. Master classes
- 8. IAHR Media Library
- 9. New water networking activities: Young researchers face-book group, IWA water wiki, PhD lists, ...
- 10. Next IAHR Congresses 2010 (Edinburgh, Europe) and 2011 in Brisbane, Australia): EPD contributions, Master Classes, ...
- 11. Further activities and perspectives
- 12. Other items

IAHR VANCOUVER MASTER CLASSES

- History: River Flow Conference Series
6 to 8 classes; 4 to 6 students in each class;
2 Masters per class; 1 day event; large budget
- IAHR Vancouver Congress Master Classes:
 - **intention to organize emerged spring 2008**
(June/July 2008: A. da Silva, M. Muste, R. Hotchkiss)
 - Concept: 3 classes; General topics; 3 Masters per class;
low budget (\$10,000)

IAHR VANCOUVER MASTER CLASSES

SUNDAY, AUGUST 9 • 8:30am -1:00pm

MC-I Uncertainty Analysis in Hydrometry

Masters: Dr. Marian Muste, Dr. Jean-Luc Bertrand-Krajewski, and Dr. Wolfgang Nowak

MC-II Turbulence in Natural and Constructed Waterways

Masters: Dr. Ana Maria Ferreira da Silva, Dr. Vladimir Nikora, and Dr. Wolfgang Rodi

MC-III Fish Passages at Stream Crossings

*Masters: Dr. Rollin Hotchkiss, Chris Katopodis, and **Dana Becker***

IAHR VANCOUVER MASTER CLASSES

SCHEDULE FOR EACH CLASS

- 8:30-9:00am: Student Registration and Welcome
- 9:00-9:50am: Lecture (Part A) and Discussion Period
- 9:50-10:40am: Lecture (Part B) and Discussion Period
- 10:40-11:00am: Coffee Break
- 11:00-11:50am: Lecture (Part C) and Discussion Period
- 11:50am-1:00pm: General Discussion

IAHR VANCOUVER MASTER CLASSES

In total we received 76 applications:

24 for MC I (Uncertainty Analysis)

37 for MC II (Turbulence)

15 for MC III (Fish Passages)

Confirmed attendance at end of July (59 students):

17 for MC I (Uncertainty Analysis)

31 for MC II (Turbulence)

11 for MC III (Fish Passages)

Attendance (Total: 72 students):

15 for MC I (Uncertainty Analysis)

39 for MC II (Turbulence)

18 for MC III (Fish Passages)

IAHR VANCOUVER MASTER CLASSES

Brisbane Congress 2011

- **Good model (3 classes; 3 individuals each acting as convenor for a class, and with one of these individuals acting as overall Chair)**
- **Start early (planning; announcing)**
- **Organized from within IAHR**
- **Ensure good connection with LOC**