

5th IAHR International Junior Researcher and Engineer Workshop on Hydraulic Structures (IJREWHS)

Spa, Belgium – 28-30 August 2014



Nisramont dam (SPW - Belgium)

Organized by



Université de Liège - Hydraulics in
Environmental and Civil Engineering
research group



Supported by
CEDEX

IAHR – Hydraulic Structures
Technical Committee

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Schnabel Eng.

Thursday, 28 August 2014

9h: Meeting point at Liege Guillemins train station

9h-10h: Transfer by bus to workshop venue (Sol Cress domain, Spa)

10h-10h30: Welcome coffee - Secretariat opening

10h30-10h40: Opening address

10h40-11h10: History and spirit of IJREWHS, *Prof. J. Matos*

11h10-11h30: Allocation of roles

11h30-12h30: Technical Session 1

- How to simulate quickly and efficiently the flow over a sharp-crested weir?, **Goffin L.**, *Epicum S., Dewals B., Piroton M., Archambeau P.*
- Comparison of CFD models for multiphase flow in bridge scour processes, *Bayón-Barrachina A., Valero D., Vallès-Morán F., Andrés-Domènech I., López-Jiménez P. A.*

12h30-14h: Lunch

14h-15h30: Technical Session 2

- Comparison between experimental and SPH models for modeling flow over a sharp crested weir, **Lodomez M.**, *Epicum S., Dewals B., Piroton M., Archambeau P.*
- Hydrodynamic Investigation of Free-Surface Turbulent Vortex Flows with Strong Circulation in a Vortex Chamber, **Mulligan S.**, *Casserly J., Sherlock R.*
- Optimization of a stilling basin chute blocks using a calibrated multiphase RANS model, **Valero D.**, *Garcia-Bartual R., Marco J.*

15h30-16h: Coffee break

16h-17h: Keynote lecture (Chairman: B. Tullis)

Prof. S. Pagliara, How to write (and review) a research paper

17h-18h30: Round tables of sessions 1 and 2

18h30: Distribution of rooms

19h30: Hydro quiz

20h: Dinner at Sol Cress Domain

Night at Sol Cress Domain

Friday, 29 August 2014

7h30: Breakfast

8h30-9h30: Keynote lecture (Chairman: S. Erpicum)

Dr D. Aelbrecht, Innovation and research serving an industrial project to increase hydraulic safety: reinforcement of EDF's spillways (MRCD Project)

9h30-10h30: Technical Session 3

- Diaphragm in pressure pipe: steady state head loss evolution and transient phenomena, **Adam N., De Cesare G.**
- Parallel jets emerging from multiple gates: distinguishing flow condition, **Bijankhan M., Belaud G., Kouchakzadeh S.**

10h30-11h: Coffee break

11h-12h30: Technical Session 4

- Air concentration distribution on skimming flow over stepped spillways: the effect of an abrupt slope change, **Ostad Mirza M., Pfister M., Schleiss A., Matos J.**
- Effect of the downstream level on the performance of the PK-Weir and linear weir, **Belaabed F., Ouamane A.**
- Assessment of the attraction current of a fish passage, **Ruys B., Visser K. P., Viane P., De Mulder T.**

12h30-14h: Lunch

14h-14h30: Invited lecture (Chairman: S. Pagliara)

Prof. J. Matos, Measurement devices in air water flows

14h30-16h: Round tables of sessions 3 and 4

16h-16h30: Coffee break

16h30-17h: Invited lecture (Chairman: J. Matos)

Prof. B. Tullis, How to make a good oral presentation

17h-17h30: Conclusions

18h: Departure by car for the workshop banquet

18h30: Cultural visit (to be confirmed)

19h30: Workshop banquet at "O Mal Aimé" restaurant in Stavelot

Night at Sol Cress Domain

Saturday, 30 August 2014

7h: Breakfast

7h45: Check out

8h: Departure by bus to Eupen

9h-10h: Visit of the Eupen dam

10h: Departure by bus to La Gileppe

10h30-12h30: Visit of La Gileppe dam

12h30-14h: Lunch at La Gileppe panoramic view restaurant

14h: Departure by bus to Bévercé

14h30-15h: Visit of the Bévercé hydropower plant

15h: Departure by bus to Coo

15h30-16h30: Visit of the Coo pumping storage power plant

16h30: Departure by bus to Liège

18h: End of the workshop and technical tour at Liège-Guillemins train station



La Gileppe dam from the panoramic tower (Hece-ULg)