

# Minutes IGUR annual meeting 2012

At UrbanRain12 workshop, St.Moritz,  
December 8<sup>th</sup>, 2012, 9 – 10 pm

**DRAFT**

Participants: Patrick Willems (Chairman), Thomas Einfalt (Secretary), Van-Thanh-Van Nguyen, Karsten Arnbjerg-Nielsen, James Li, Simon Beecham, Rezaul Chowdhury, Auguste Gires, Li-Pen Wang, Susana Ochoa Rodriguez, Alma Schellart, Jovan Despotovic, Marie-Claire ten Veldhuis

## 1. Welcome

The chairman Patrick Willems welcomed the participants to the annual IGUR meeting.

## 2. Minutes of the previous annual IGUR meeting in Porte Alegre, September 2011

The minutes of the last IGUR meeting were approved without any addition.

## 3. IGUR activities or supported by IGUR since previous IGUR meeting

- Book “Climate Change Impacts on Rainfall Extremes and Urban Drainage Systems” + related Water Wiki site ICCREUDS + related paper: The book has been prepared by 7 members of the IGUR and was published by IWA Publishing in October 2012. The book provides a state-of-the-art overview of existing methodologies and relevant results related to the assessment of the climate change impacts on urban rainfall extremes as well as on urban hydrology and hydraulics. It covers the following main topics:
  - Climate change simulations
  - Modeling of urban rainfall extremes in a stationary context
  - Study of rainfall and urban runoff variability and trends in a non-stationary context
  - Statistical downscaling of rainfall extremes
  - Climate factors and changes in IDF relationships
  - Climate change impacts on urban drainage: results and regional differences
  - Needs for adaptation and flexible designs

The full reference is:

Willems, P., Olsson, J., Arnbjerg-Nielsen, K., Beecham, S., Pathirana, A., Bülow Gregersen, I., Madsen, H., Nguyen, V-T-V. (2012), ‘Impacts of climate change on rainfall extremes and urban drainage’, IWA Publishing, 252p., Paperback Print ISBN 9781780401256; Ebook ISBN 9781780401263

The following related abstracts have been prepared and accepted for presentation at the workshop or conference:

‘Limitations and pitfalls of climate change impact analysis on urban rainfall extremes’ (Willems, P., Olsson, J., Arnbjerg-Nielsen, K., Beecham, S., Pathirana, A., Bülow Gregersen, I., Madsen, H., Nguyen, V-T-V.), 9th Int. Workshop on Precipitation in Urban Areas – “Urban Challenges in Rainfall Analysis”, St.Moritz, December 2012

‘Climate Change Impacts on Rainfall Extremes and Urban Drainage: a State-of-the-Art Review’ (Willems, P., Olsson, J., Arnbjerg-Nielsen, K., Beecham, S., Pathirana, A., Bülow Gregersen, I., Madsen, H., Nguyen, V-T-V.), 2013 EWRI Congress, Cincinnati, Ohio, 19-22 May 2013

In parallel, the following IWA Water Wiki site has been launched, which acts as an electronic supplement to the book (e.g. containing training material):

<http://www.iwaterwiki.org/xwiki/bin/view/Articles/ICCREUDS>

The meeting considered this a nice achievement that gives strong visibility to our working group. Simon Beecham proposed to have more activities of this type, where members of the IGUR take the lead in preparing a review report, or paper, or preparing a workshop, or ... on a given topic. The meeting strongly welcomed this idea. It was agreed that a follow-up of this point will be made during the next meeting(s); members are in the meantime encouraged to take up the idea and initiate new initiatives.

- Review of abstracts and papers for international conferences (UDM 2012, UrbanRain12, Novatech2013, 13ICUD). The IGUR was requested to participate in the review of urban rainfall related papers for the UDM 2012 conference in September 2012 at Belgrade, this UrbanRain12 workshop in December 2012 at St.Moritz, for the Novatech2013 Conference next year at Lyon, and for the 13ICUD conference in 2014 in Malaysia. The UrbanRain12 workshop, co-organized by Thomas Einfalt, was attended by 75 participants, had 36 presentations, 27 posters and overall 57 short papers in the proceedings. Several IGUR members took part of the organizing and scientific committees of that workshop. For Novatech2013, the review of papers is currently ongoing.
- The meeting congratulated participant Li-Pen Wang for the Best Poster Award he won during this UrbanRain12 workshop.
- IGUR member Karsten Arnbjerg-Nielsen attended the IWA Congress in September 2012 at Busan, Korea. He organized and chaired at that conference a session on "The coming urban drainage challenge—friend, foe or both? Managing urban flood risks to cities in the context of a changing climate and an expanded set of community objectives for livable cities".
- IGUR members Thomas Einfalt and Auguste Gires reported on the ERAD 2012 conference in June 2012 at Toulouse they attended.
- IGUR members Van-Thanh-Van Nguyen reported on the Hydroinformatics Conference (HIC 2012) in July 2012 at Hamburg they attended.
- IWA book chapter on "hot issues" in urban drainage. The IGUR contributed (as one of the working groups of the IWA/IAHR Joint Committee on Urban Drainage) to the new IWA book on "Global Trends & Challenges in Water Science, Research and Management --- A compendium of hot topics and features from IWA Specialist Groups" with the following chapter:  
  
'Rainfall extremes and urban drainage' (Willems, P., Einfalt, T.) In: "Global Trends & Challenges in Water Science, Research and Management --- A compendium of hot topics and features from IWA Specialist Groups" (ed. Hong Li), International Water Association, London, 83-85; 2012; ISBN 9781780401065
- IGUR Working Group reports have been prepared and submitted to the JCUD in January 2012 (incorporation in the annual JCUD Newsletter 2011), in August 2012 (before the JCUD meeting at the UDM 2012 conference in Belgrade), and in December 2012 (to be incorporated in the annual JCUD Newsletter 2012).

#### **4. News from the JCUD**

Patrick Willems, supported by Karsten Arnbjerg-Nielsen, took reading of the most relevant items in the JCUD-meeting during the UDM 2012 conference in September 2012 at Belgrade:

- Our IGUR activities were presented in Belgrade by Karsten Arnbjerg-Nielsen;
- Karsten Arnbjerg-Nielsen became a new member of the JCUD;
- The IGUR was considered as a "successful working group";
- There are 3 open positions for new JCUD members;
- The following peer-reviewed international journals can be considered for papers on urban drainage including urban rainfall: Urban Water journal: impact factor now is 0.83; Water Science and Technology (our IGUR member Karsten Arnbjerg-Nielsen is one of the editors); Water Research (Wolfgang Rauch is one of the editors);
- For the organization of the 2017 ICUD conference, there are two candidate countries: Czech Republic or Republic of South Africa. The final decision after voting will be made soon.

#### **5. Other reports by IGUR members**

The following other reports on activities by IGUR members were presented:

- Thomas Einfalt reported on the national working group in Germany about rainfall measurement by radar hosted by the Association of the German Engineers: VDI 3786. The working group prepared a "national radar guideline". Thomas Einfalt will distribute this guideline among the member of the IGUR.
- Patrick Willems and Marie-Claire ten Veldhuis reported on the recent activities of the new Interreg NWE IVB project "RAINGAIN: Advanced observation systems for enhanced street scale urban surface flood prediction, warning and risk management". After a workshop held in April 2012 at

Leuven, a review report on “Methods and experiences in radar based fine scale rainfall estimation” is currently being finished.

- Jovan Despotovic reported on research contacts he has with colleagues from the Balkan, Central Asia, such as the Russian Federation, and the Black Sea region. At current, these regions have limited participation in international conferences, working groups and projects. Jovan asked the meeting to support participation of highly qualified researchers from these regions to the IGUR, next UrbanRain workshop, ...
- Karsten Arnbjerg-Nielsen reported on the ongoing research activities reg. urban rainfall in Denmark.

## **6. Future IGUR activities**

- Future conferences and workshops that cover the urban rainfall topic:
  - o ASCE-EWRI World Environmental and Water Resources Congress in Cincinnati, Ohio, USA, May 19-23, 2013: IGUR member Van-Thanh-Van Nguyen is co-organizing the special session on “Urban water management in a changing climate”. He encouraged more colleagues from outside the USA to attend. The IGUR abstract on the topic of climate change and urban drainage has been accepted for presentation at the conference.
  - o NOVATECH 2013, Lyon, June 23-27, 2013: IGUR members will review abstracts and papers. A workshop on “Impacts of climate change on rainfall extremes and urban drainage systems” is proposed by the IGUR and is currently being considered by the conference organizers. It is planned for Sunday 23 June, 10 am – 4 pm. Patrick Willems will take the lead in the organization of that workshop. IGUR members Karsten Arnbjerg-Nielsen, Thomas Einfalt, Simon Beecham, Jovan Despotovic, Marie-Claire ten Veldhuis, August Gires will attend the conference and are ready to contribute to the workshop. The meeting decided that if the workshop would be successful, the IGUR may consider repeating this workshop at the 13ICUD one year later.
  - o 6th International Conference on Water Resources and Environment Research, Koblenz, June 3-7, 2013
  - o 7th International Conference on Sewer Processes & Networks, Sheffield, UK, August, 28-30, 2013: participant Alma Schellart provided more information on that conference
  - o International Conference on Flood Resilience, Exeter, UK, September 5-7, 2013
  - o 35th IAHR World Congress, Chengdu, China, September 8-13, 2013
  - o MODSIM2013, Adelaide, South Australia, December 1-6, 2013: Simon Beecham provided more information on that conference
  - o 13ICUD 2014, Malaysia, September 7-11, 2014: organized by IGUR member Mohamed Nor

## **7. Update of IGUR members list and website**

Update of the members list was discussed. Simon Beecham proposed Rezaul Chowdhury to become a member of the IGUR. The meeting voted and welcomed him as new member. Patrick Willems explained that he also got a request from Dr. Linmei Nie, Associate Professor & Research scientist, Water and Environment, SINTEF, Oslo, Norway, to join to working group. Dr. Nie has been added to the IGUR mailing list and she is very welcome to attend future activities. Given that several new people from the UK attended the IGUR meeting (Alma Schellart, Li-Pen Wang, Susana Ochoa Rodriguez) the meeting discussed about the IGUR membership from the UK. James Li currently has a membership from the UK, but is ready to change his membership to Malaysia, such that a new UK member can be welcomed. Further follow-up of this item will be done by e-mail.

The website will be updated with this annual meeting report, the IGUR reports to JCUD, the news on future conferences and workshops, and list of members (Patrick Willems).

## **8. Next annual IGUR meetings**

The next annual IGUR meetings will be:

- 2013 Novatech, Lyon
- 2014 ICUD, Malaysia

## **9. Any other item**

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