

Common topics meeting

Webex videoconference, 18-3-2020, 9 – 12 am

Participants: Phillip, Birgit, Sabine, Ferdi, Niranjana, Adrian

Presentations were prepared by all four groups including information about : projects of doctoral students, kollegiates and others involved ; measurements ; models ; collaborations within and beyond the common topics groups and suggestions for improvement of collaboration; what is offered and needed ; (joint) publications

In the following points are mentioned which go beyond the common topics and address possible extensions and important joint publications

Interfaces in urban watersheds (presented by Birgit)

Possible topics to be considered: contribution of *pipe leakage to groundwater recharge* --> include sewer group, 3rd cohort ; *freshwater ecosystems in the urban landscape* --> riverscape connectivity ; look into infiltration of stormwater: urban heat/ urban karst (Nasrin/ Franzi)

Better collaborations: see slide 7

DFG funded Postdoc will link activities within the common topic group and beyond

Planned publications:

- Conceptual paper: How can we *apply the findings from our research to other urban areas* --> what are the insights into general urban hydrology?
- Special issue "*Processes in urban catchments*" in Hydrological Processes (Editor in Chief: Prof. Tetzlaff), publications of UWI students and of international guests attending the UWI conference in 2020

Interfaces in urban freshwater ecosystems (presented by Sabine)

Possible topic that can be still considered: shared knowledge on *redox parameters under various urban stressors*

Better collaborations: see slide 7

Ideas for joint publications (beyond freshwater common topic):

- *Redox dynamics at urban water interfaces*.....(discussed during last meeting)
- *Building cities from scratch*: urban water management without limits (Ferdinand)
- *Improving urban resilience*: Managing urban freshwater interfaces to mitigate multiple stress in cities? (Sabine)

Interface urban hyporheic zones (presented by Niranjan)

Better collaborations: see slide 13

Joint publications :

- Lewandowski et al. (2019) : *Is the Hyporheic Zone Relevant beyond the Scientific Community?* in Water

Interfaces in sewer systems (presented by Adrian)

New sequencing machine Nanopore can be used by all projects where microorganisms are involved

Better collaborations: see slide 17

Publications : Adrian is preparing *several review / overview papers*, one with regard to biofilms in sewers, another addressing the interfaces involved and two others

Overall : the presentations indicate that there are various collaborations within the common topics groups and also beyond from which the latter may be extended or intensified ; we have setup an inventory of our measurement and modeling activities ; with regard to stronger point out UWI's added values more contributions of the PIs are expected, also of the post-docs ; the Special Issue in Hydrological Processes (Editor in Chief : Dörthe) : *Processes in urban catchments* seem to be one good means for presenting added values, the topic probably may be understood broader in the sense that not only contributions from the watershed group but also from other common topic groups can be included