



TECHNISCHE
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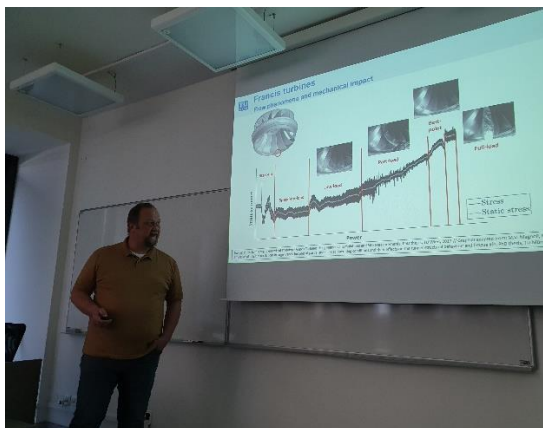
Report on activities within AKTION project 92p19

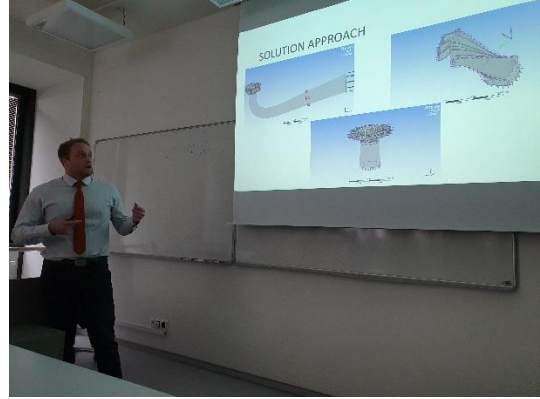
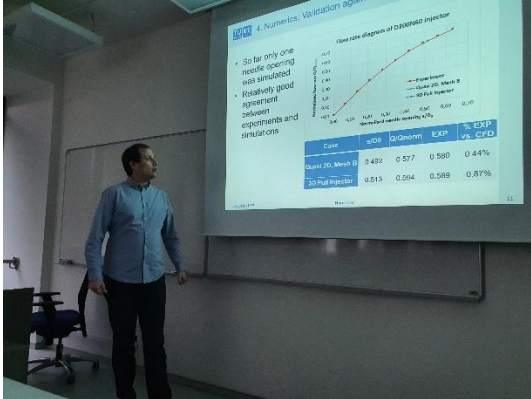
Educating future generation of engineers for sustainable hydropower in central Europe

1. Activities

1.1. Two-day seminar at Brno University of Technology (21.-22.4.2023)

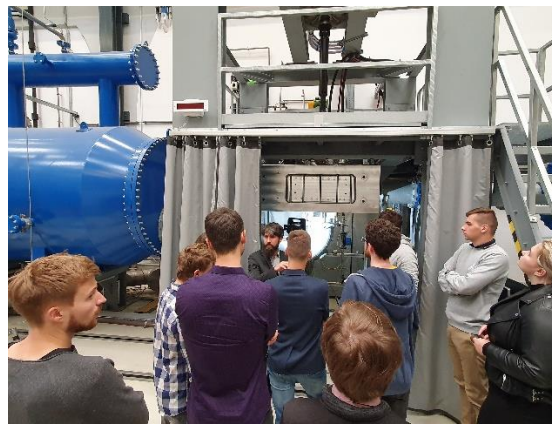
8 lectures were given especially by younger researchers including PhD and MSc students from TUW and BUT on very diverse topics ranging from Francis turbine fatigue analysis and roto-stator interaction investigations to hydraulic pump research. Detailed visit of the hydraulic lab at BUT was essential part of the meeting as well as informal gathering of all participants in the evening. We had 27 participants.

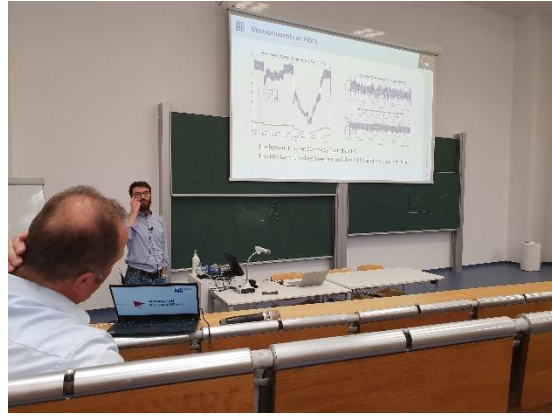




1.2. Two-day seminar at Technical University Vienna (26.-27.9.2023)

9 presentations were given by researchers from both TUV and BUT on topics ranging from rocket pump design to hydrophobic surfaces or cavitation. A lab tour was organized by TUV and current experimental research at TUV was presented. Afterwards an informal dinner was organized for all participants.





1.3. One-day excursion to hydraulic laboratory of Litostroj Engineering company

Joint one-day excursion for master students from BUT and master and PhD students from TUW was organized. In hydraulic laboratory of the company Litostroj Engineering in Blansko we could see testing of two hydraulic turbines and were given presentation about the company current projects including those in Austria. We had 31 participants.



2. Significance of the project for BUT and TUW

All events planned in the project proposal were fulfilled. Altogether 3 joint activities were realized within AKTION project 92p19. Both project coordinators felt that it was very stimulating for students on both sides to share their experience in studies, see the university labs and also the labs of manufacturing company.

Moreover during 2022 both departments were awarded 3 joint research projects (COST Action Pen@Hydropower, Horizon Europe H-HOPE, EnerDigit “DIWIEN”), which will further enhance their collaboration.

In the end of 2023 a paper by BUT team was presented at ViennaHydro international conference, which is organized by team at TUW.

It should also be noticed that a visit of the dean of Faculty of Mechanical Engineering BUT assoc. prof. Jiří Hlinka, Ph.D with dean of the Faculty of Mechanical and Industrial Engineering TUW Prof. Dipl.-Ing. Dr.-Ing. Christian Bauer at TUW was organized within the mutual meeting at TUW in September. It was their first meeting to start a deeper collaboration between the two faculties.

Overall AKTION project 92p19 can be considered very successful.

Appendix:

- programmes of the seminars in Brno and Vienna (3 pages)
- list of participants for all 3 activities (6 pages)
- financial overview on the Czech side (2 pages)