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## To all Members

Ihre Nachricht  
Your letter

Ihr Zeichen  
Your ref.

Unser Zeichen  
Our ref.

Durchwahl  
Ext.

Datum  
Date

Hi/Qu

9019291

09/15/2022

### **Member Info – 17/2022:**

#### **DCA-Sponsoring program 2022 – TU Delft - Deltares - DCA Master Thesis Adam Lisowski - Call for support**

Dear Ladies and Gentlemen,

as mentioned at our members meeting and in our newsletter edition No. 52 the first project for the **2022 sponsorship program** on "**Accuracy in HDD drillings**" was submitted by **Adam Lisowski**, student at TU Delft, at the beginning of June and was considered worthy of sponsoring by the board. The project has started in July this year and is estimated to take about six months to complete.

#### **The main questions to be investigated in the course of the master thesis are as follows:**

- Can the accuracy of HDD drilling be improved?
- How does recorded borehole alignment influence the pipeline pullback force?
- How can the borehole alignment accuracy be assessed based on pipeline pullback force models?
- Which soil and pipe parameters impact the HDD accuracy through the pullback force, which parameters are most influential?
- How much influence do the navigational devices entail?
- Can the HDD procedure be adjusted with regard to the most influential parameters?

**In this process he needs support from our DCA Members!** His work specifically focuses on the relationship between the borehole path trajectory and the pullback forces that occur. Based on said relationship along with numerical modelling he might be able to establish environmental and procedural parameters influencing the accuracy of the installation, which then can be used for further research and optimisation of the general process.



In order to better understand, examine and describe the process, data from multiple installations is crucial, therefore, he would like to inquire whether it would be possible **that DCA members share any past installation data.**

He is not interested in the locations, company names or any other pieces of delicate information regarding the anonymity or privacy of the contractors or clients. His work should be considered as academic research exploring different aspects of horizontal directional drilling with the goal of further exploring the industry as a whole.

Enclosed you will find **two attachments**, an **excel sheet** where data should be filled in, along with a **PDF instruction introducing** the optimal way of filling in the data. Moreover, the instruction file also provides additional motivation and the research questions considered in his thesis.

If the data could be shared in **the coming four weeks** it would directly contribute to the most pivotal time of his research. He is looking forward to hearing back from any member interested in contributing to the research.

Please be so kind and fill in the enclosed Excel-sheet and send it back to

- Adam Lisowski (Contact: [A.Lisowski@student.tudelft.nl](mailto:A.Lisowski@student.tudelft.nl)),
- cc to our Program Coordinator Jörg Himmerich: [Joerg.Himmerich@veenkerghmbh.de](mailto:Joerg.Himmerich@veenkerghmbh.de)
- and cc to the DCA: [d.quante@dca-europe.org](mailto:d.quante@dca-europe.org))

To your information Adam Lisowski will **also participate at our 26th DCA Annual Congress.**

He will be involved in the Workshops 2, Accuracy in HDD-drillings

If you have any questions, please do not hesitate to contact Adam Lisowski or Jörg Himmerich.

Thanks for your support

With kind regards

Jörg Himmerich  
DCA Board

Dietmar Quante  
Executive Secretary