

DAP Newsletter

Intro

To keep all the interested parties informed about DAP and geothermal energy, DAP introduced this newsletter last May. After the previous newsletter, the first DAP seminar was successfully organized and three geothermal BSc projects are completed. Next Friday, September 18, the 2nd DAP Seminar will take place!

PhD project — Cees Willems

In 2013, PhD candidate Cees Willems, started his research project in geothermal energy. His position is partly achieved by the DAP 30 program. Here a small summary of his project:

The effect of fluvial reservoir architecture on geothermal energy production

'Hot Sedimentary Aquifers' are a relatively new type of geothermal reservoir. The West Netherlands Basin is currently one of the few sedimentary basins where geothermal energy is exploited. Other examples are the Paris Basin, the Northern Germany Basin and the Perth Basin. In these basins the geothermal heat is commonly produced by a doublet system consisting of two wells, a production and a reinjection well. During development of such a doublet, a cold water plume develops around the injection well. In this PhD project, the effect of fluvial reservoir ar-

chitecture on the development of this plume is studied. Topics in this study are: the connectivity of permeable sandstone bodies in the impermeable floodplain fines matrix, improved estimation of doublet life-time and optimal flow rates and doublet spacing. The focus on fluvial sedimentary aquifers relate this study to several currently active West Netherlands Basin geothermal doublets and the target reservoir of the DAP geothermal licence in Delft.

Field trip—Soultz

In cooperation with Prof. dr. David Bruhn, a field trip to the EGS power plant in Soultz will be organized in November 2015. The field trip will take place from the 12th until the 13th of November. We will visit the first Enhanced Geothermal System (EGS) in Soultz-sous-forêts, the geothermal power plant in Bruchsal and the combined power & heat plant in Insheim. The registration fee will be €120 and for students €95 (dinner included). The number of participants will be limited. The application deadline is October 20.

If you are interested, please send an e-mail to d.f.bruhn@tudelft.nl or to dap-citg@tudelft.nl

For questions or extra information: www.delftaardwarmteproject.nl or mail to DAP-CITG@tudelft.nl

DAP Seminar

After a successful first DAP Seminar, DAP would like to invite you for their next seminar on **Friday September 18** with another international high profile speaker. As proposed by Prof. dr. David Bruhn, the seminar will be given by **dr. Albert Genter**

Dr. Albert Genter was the scientific leader of the Soultz project, the first completed (and still operating) Enhanced Geothermal System in the world. Now he is the Deputy General Manager of Electricité de Strasbourg - Géothermie. For more information about Dr. Genter, please find an abstract on our website.

The topic of the Seminar will be:

'Development of EGS in the Upper Rhine Valley, from the Soultz EGS pilot project to industrial projects'

The seminar will be held in room **02.110** and starts at **15:30**.

Interested in Geothermal Energy?

Are you looking for a BSc or MSc project, and interested in geothermal energy? Please contact:

MSc

Prof. dr. Bruhn

D.F.Bruhn@tudelft.nl

BSc

Cees Willems

C.J.L.Willems@tudelft.nl



Deep geothermal energy in Soultz-sous-forêts

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