

Good estimates of groundwater velocities are essential for determining the fate and transport of contaminants at contaminated sites. Most often indirect estimates of groundwater velocities are used based on hydraulic head measurements and application of Darcy's law.

3. december 2013 - Gå-hjem-møde

DTU

Bygning 115

mødelokale 145 på 1. sal

Tilmelding

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**Mødenr.**

**18 - Gå-hjem-møde**

**Tidspunkt**

Tirsdag den 3. december 2013, kl.16.00 – 18.00

**Sted**

DTU

Bygning 115

mødelokale 145 på 1. sal

Faglig tilrettelæggelse

Østgruppen under ATV Jord og Grundvand v/

Gitte Lemming, DTU Miljø, [gile@env.dtu.dk](mailto:gile@env.dtu.dk)

Lotte Tombak, Region Sjælland, [lot@regionsjaelland.dk](mailto:lot@regionsjaelland.dk)

Arrangør

## Methods for determination of groundwater velocity and application of Point Velocity Probes

Written by Jesper Friis

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### Emne

Good estimates of groundwater velocities are essential for determining the fate and transport of contaminants at contaminated sites. Most often indirect estimates of groundwater velocities are used based on hydraulic head measurements and application of Darcy's law. However, while these may be good at describing the average conditions over a larger area, they fail to predict the local groundwater velocities which may vary substantially over the small scale.

Methods for in situ measurement of groundwater velocities have existed since the 1920s, although they are rarely used in practice. In this meeting, Rick Devlin, professor at Kansas University, will first give an overview of existing methods for direct groundwater velocity measurements. This is followed by the presentation of a relatively new method called Point Velocity Probe (PVP) that he developed. Case-examples of the use of the PVPs shows how high resolution groundwater velocity data can improve the understanding of contaminant transport and help to focus remediation efforts

- Welcome and introduction by professor Poul L. Bjerg, DTU Environment
- Methods for direct determination of groundwater velocity – an overview by professor Rick Devlin, Kansas University
- Direct measurement of groundwater velocity using Point Velocity Probes by professor Rick Devlin, University of Kansas

After the presentations there will be time for questions and for discussing the use of groundwater velocity measurement techniques.

Nærmere oplysninger fås ved henvendelse til Gitte Lemming, DTU, tlf.: 4525 1595 – email: gile@env.dtu.dk eller Lotte Tombak, Region Sjælland, tlf.: 5787 5811 – email: lot@regionsjaelland.dk

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