



Training Course

## Leaching Assessment and LeachXS Training

INSA  
Lyon, France  
June 2, 2009

### Workshop Convenors:

Hans van der Sloot  
Andre van Zomeren  
Hans Meeussen  
David Kosson  
Ole Hjelmar

### Actions prior to the Workshop:

Installing LeachXS on laptops of participants by web download ([www.leachxs.com](http://www.leachxs.com)) and install instructions.

Requirements Laptop: minimal 750 MB RAM and 1.6 GHz processor.

Ensure license validation by starting up with connection to internet the day before the training course.

**Workshop duration:** 1 day

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**9:00 am - 9:10 am**

### Session 1

1. Welcome & Participant Introductions
  - a. Workshop goals – Hans
    - i. Underlying concepts for LeachXS - Orchestra
    - ii. LeachXS as a leaching assessment and decision support tool

**9:10 am - 9:25 am**

### Session 2

2. LeachXS Introduction, Status and developments - Hans
  - a. Recent modifications
  - b. Ongoing developments (LeachXS Lite)



**9:25 am - 9:45 am**

**Session 3**

3. Examples of problems to be addressed - Hans
  - a. What is LeachXS?
    1. leaching data comparison – comparing materials
    2. Comparison with regulation
    3. Comparison lab to field
    4. Statistical evaluation of data
    5. Geochemical modelling
    6. Scenario definition
    7. Mixture modelling

**9:45 am - 10:00 am Coffee Break**

LeachXS installation verification Andre/Hans.

**10:00 am - 11:00 pm**

**Session 4**

4. Example cases – Interactive with All Participants - Andre Hans
  - a. Comparison of materials (including comparison with regulatory criteria)
    - i. Data selection, display and output to Excel (Example 1)
  - b. Comparison of constituents
    - i. Data selection, display and output to Excel (Example 2)
  - c. Statistics tool and QC

**11:00 am - 12:30 pm**

**Session 5**

5 Data input tool and options - Andre, Hans, David

- d. pH dependence test data
- e. percolation test data

**12:30 pm - 1:30 pm Lunch**

**1:30 pm - 3:00 pm**

**Session 6**

Example cases – Interactive with All Participants - Andre, Hans, David

- f. Chemical Speciation and prediction tool - Hans Andre
  - i. pH dependence tests
  - ii. Percolation test
  - iii. Mixture modelling
  - iv. Tank test modelling

**3:00 pm - 3:15 pm Coffee break**



**3:15 pm - 4:00 pm**

**Session 6 continued**

Example cases – Interactive with All Participants - Andre, Hans, Hans, David, Rob

g. Chemical Speciation and prediction tool - Hans Andre

- i. pH dependence tests
- ii. Percolation test
- iii. Mixture modelling
- iv. Tank test modelling

**4:00 pm - 4:30 pm**

**Session 7**

Evaluation - Hans

h. Discussion of participant needs - Interactive with All Participants

**4:30 pm - Adjourn**