



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) 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

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