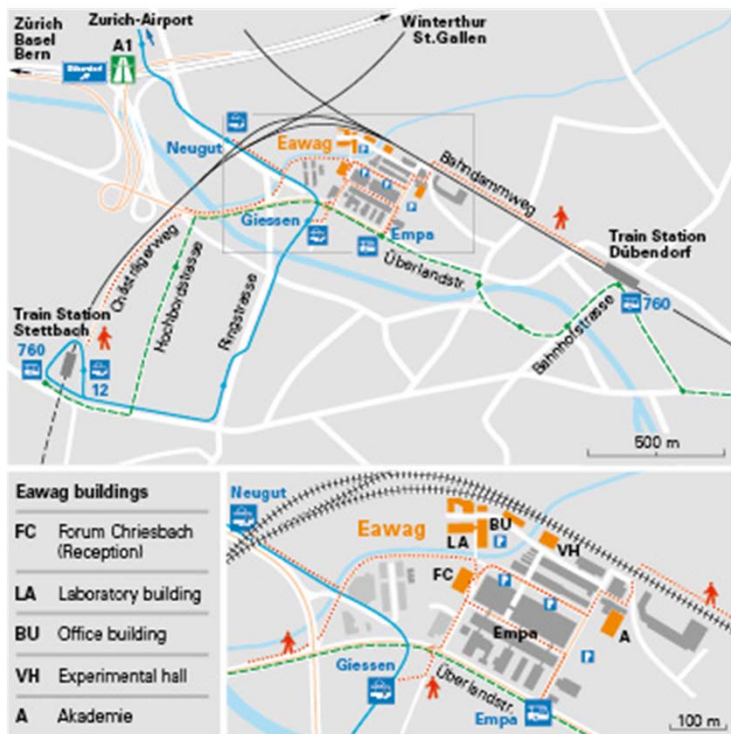


## How to find Eawag:



### Public transport

- From *Zurich Main Station (HB)* take the train S3, S9 or S12 to Stettbach. From there it is 20 minutes walk to Eawag (see map on the web), or take tram No. 12 to “Giessen” or bus No. 760 to “Empa”.
- From *Zurich Oerlikon*, take the S14 train to Dübendorf and then bus No. 760 to “Empa”, or walk to Eawag, about 20 minutes (see map on the web).
- From *Zurich-Airport*, take tram No. 12 to either stop “Neugut” or “Giessen” (about 20 minutes ride).

### Car

- From the Motorway A1, take exit Dübendorf, to the right towards Dübendorf, 300 meters after the major crossing turn left into the Eawag-Empa premises. Parking tickets for visitors can be obtained at the reception if visitor bays are full.

For more details : [http://www.eawag.ch/about/standorte/anreise\\_dd/index\\_EN](http://www.eawag.ch/about/standorte/anreise_dd/index_EN)

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Juliane Hollender, Eawag: [juliane.hollender@eawag.ch](mailto:juliane.hollender@eawag.ch)



Final Program

## Workshop on Non-Target Screening

*Towards the harmonisation of methods for  
non-target screening of environmental samples*

organised jointly by  
The NORMAN Network and SOLUTIONS

**16 September 2014, 13:00 pm**  
**To 17 September 2014, 13:00 pm**  
Eawag: Dübendorf, Switzerland

Room FC-C20 (first floor)

Attendance is free of charge.

### For further information contact

Jaroslav Slobodnik, EI, Slovak Republic: [slobodnik@ei.sk](mailto:slobodnik@ei.sk)  
Juliane Hollender, Eawag, Switzerland: [juliane.hollender@eawag.ch](mailto:juliane.hollender@eawag.ch)



**eawag**  
aquatic research

**HELMHOLTZ**  
CENTRE FOR  
ENVIRONMENTAL  
RESEARCH - UFZ

## NORMAN Association

NORMAN, a network of reference laboratories and research centres, is an independent and competent platform in the monitoring of emerging environmental contaminants. NORMAN facilitates an exchange of information, debate and research collaboration at the global level, with the European Commission's in-house science service. See <http://www.norman-network.net/>.



## SOLUTIONS

SOLUTIONS is a recently launched European Integrated project with a specific focus on the identification, assessment and prioritisation of contaminants and contaminant mixtures. A consortium of 39 partners from 18 different European countries are developing novel approaches, models and tools to find solutions for present and future emerging pollutants in land and water resources management on a river basin and European scale. See <http://solutions-project.eu/>. SOLUTIONS is funded by the European Union's Seventh Framework Programme, Grant 603437.

## Background and Objectives

This workshop aims to give participants an overview on the current trends and future developments of non-target screening, before initiating discussions on how to best harmonise methods, while allowing sufficient flexibility for laboratories to pursue their own methods. The results of the NORMAN collaborative non-target screening trial, where a single, well-defined sample was sent to many laboratories across Europe, will be presented. The outcomes of the joint NORMAN-SOLUTIONS workshop will be the basis for the preparation of further NORMAN action and an opinion paper on the harmonization of methods for non-target screening of environmental samples. This will be followed by the NORMAN MassBank workshop to enhance the exchange of mass spectra (17-18 September, 2014).

## Date and Venue

The workshop will take place in Room FC-C20, Forum Chriesbach, Eawag, Überlandstrasse 133, 8600 Dübendorf, Switzerland (see reverse)

## Lunch break and dinner

Participation in the workshop is free, including refreshments during the coffee break and lunch. The common dinner on the 16<sup>th</sup> will be hosted by and located at Eawag; the dinner on the 17<sup>th</sup> is not included. Please indicate special requirements for the evenings during the day.

## Organisers:

Jaroslav Slobodnik

*Environmental Institute (EI), Slovak Republic*

Juliane Hollender and Emma Schymanski

*Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland*

Martin Krauss and Tobias Schulze

*Helmholtz Centre for Environmental Research (UFZ), Germany*

## Final Program



### Tuesday 16 September (Chair: J. Hollender)

- 13:00 Welcome and setting the scene (J. Hollender, Eawag)
- 13:05 Suspect and non-target screening approaches for GC-MS (P. Haglund, Umeå)
- 13:30 Suspect and non-target screening approaches for LC-MS (H. Singer, Eawag)
- 13:55 Summary of the Collaborative Screening Trial (J. Slobodnik, EI)
- 14:20 Non-target approaches: A US perspective (L. Ferguson, Duke Uni., USA)
- 15:00 **Coffee break**
- 15:30 Use and benefits of GC(APCI)-QTOF-MS (J. Sancho, UJI Spain)
- 15:50 Spectral information and identification confidence (E. Schymanski, Eawag)
- 16:10 *In silico* fragmentation and reference information (C. Ruttkies, IPB Halle)
- 16:30 Comparison of approaches for retention prediction (M. Krauss, UFZ)
- 16:50 **Short break**
- 17:00 Screening using databases of environmentally-relevant substances  
(STOFF-IDENT: M. Sengl, LfU and DAIOS: W. Schulz, LW Langenau)
- 17:20 Incorporating market data and use pattern (S. Fischer, KEMI)
- 17:40 Inclusion of toxicity information (R. Kühne, UFZ)
- 18:00 Discussion; end of day 1
- 19:30 **BBQ at aQa (on campus) sponsored by Eawag**

### Wednesday 17 September (Chair: P. Haglund)

- 09:00 Statistical approaches for data-mining and non-target selection  
(D. Stipanicev, Croatian Waters)
- 09:20 Time series analysis of the Rhine at Basel (M. Ruff, Eawag)
- 09:40 Stealing ideas from metabolomics data exchange repositories  
(S. Neumann, IPB Halle)
- 10:00 Advanced spectral data processing and management (R. Mistrik, HighChem)
- 10:20 NORMAN digital storage: archiving raw and environmental mass spectral data for future analysis and assessment (T. Schulze, UFZ)
- 10:40 **Coffee break**
- 11:15 Prioritisation and non-target screening (J. Slobodnik, EI)
- 11:45 Discussion on harmonisation potential and future needs (led by P. Haglund)
- 12:45 Workshop Wrap-up (J. Hollender, Eawag)
- 13:00 Lunch**  
Following lunch the NORMAN MassBank workshop is scheduled.  
Participants are welcome to attend!
- 19:30 **Common dinner at own cost**, location to be announced at the workshop.