

EMPA
 Anne Haas
 Energy Systems/Building Services
 Überlandstrasse 129
 CH-8600 Dübendorf

General Information

Location: **Registration**/Welcome reception on Thursday
 Entrance Hall, VE-Building
Workshop Thursday/Friday
 Mirko-Roš-Zimmer, Bauhalle, EMPA Dübendorf

Date: January 25 and 26, 2001

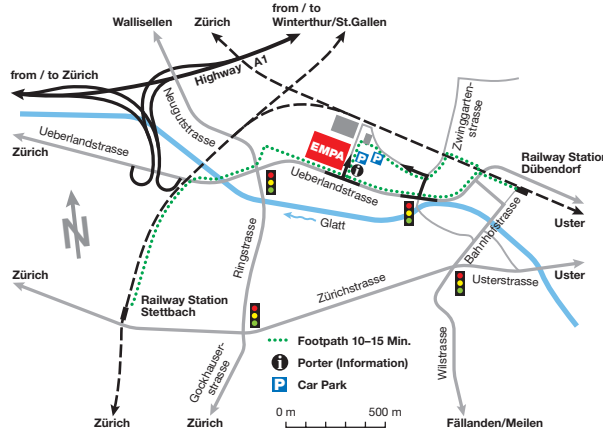
Time: 09.00–17.00

Fee: Fr. 1200.– incl. VAT, lunch, coffee breaks
 and course material, payable after receipt
 of invoice

Registration: Deadline January 03, 2001

Organisation, Anne Haas
 Registration, EMPA, Energy Systems/Building Services
 Information: Überlandstrasse 129, CH-8600 Dübendorf
 Phone +41 (0)1 823 43 57
 Fax +41 (0)1 823 40 09
 Email anne.haas@empa.ch

Refunding: All substitutions, cancellations and refund
 requests should be made in writing.
 Full refunds will be granted through
 January 3, 2001.
 Refund requests received after January 3,
 2001 will be considered on an individual
 basis following the workshop.
 All refunds are subject to a Fr. 200.–
 processing fee.
 (see also: http://www.empa.ch/index_e.htm)

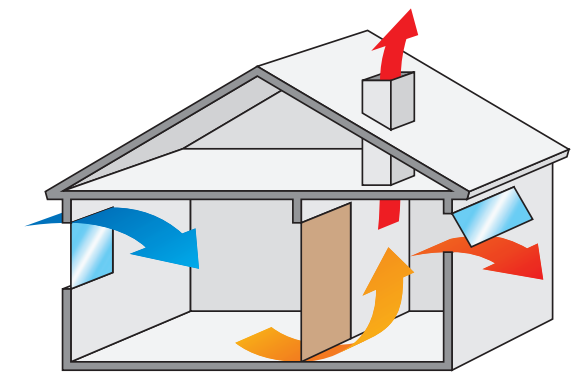


Transport

To Dübendorf from Zürich	dep.	S14	08.08	S9	08.28
From Dübendorf to Zürich	dep.	S9	17.20	S14	17.35



**Workshop
 COMIS 3.1 w.
 IISiBat & TRNSYS -
 Combined Multi-Zone Air,
 Contaminant and Heat Transport
 Analysis**



EMPA, CH-8600 Dübendorf, Switzerland
Mirko-Roš-Zimmer, Bauhalle
 Überlandstrasse 129, Dübendorf

Thursday and Friday
January 25 and 26, 2001

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■ Multizone Airflow Modelling with COMIS 3.1

An understanding of the air movement and contaminant concentration distribution in buildings is essential in the design of natural and mechanical ventilation.

Wind effect, stack effect, and mechanical ventilation systems interact closely in a multizone building.

Computer simulation of airflow in buildings is an effective design tool for the assessment of system performance.

Modelling of complex ventilation systems is quite convenient with COMIS due to its simulation environment IISiBat. The user can create complex models by assembling COMIS standard components, create new libraries of either models or projects, and export or import libraries.

TRNSYS is a general-purpose tool for simulating energy systems of any kind. COMIS has been adapted as a TRNSYS component which can be coupled with the thermal multizone building model of TRNSYS. Since TRNSYS also makes use of IISiBat, the coupling can be done within this simulation environment.

■ Objective

This short course addresses to

- design, consulting, and applications engineers, researchers, and university teachers.

The material covered in this course is particularly relevant in the design of

- energy efficient buildings with
- healthy indoor environment.

This course will

- improve your understanding of the air movement and contaminant concentration distribution in buildings
- initiate you to airflow modeling, and enable you to analyze, design and control ventilation systems
- teach you to be efficient in modelling, simulating and designing with COMIS 3.1 w. IISiBat
- introduce you to TRNSYS and IISiBat, simulating combined heat and airflow in buildings.

The attendees will

- rapidly improve their knowledge of COMIS through working with relevant examples, starting from prepared models
- get acquainted with up-to-date ventilation concepts.

■ Information about COMIS

<http://www.empa.ch/englisch/erg/comis/comis.htm>

■ Program

Thursday, January 25, 2001

- 09.00 Registration/Welcome reception
Entrance Hall, VE-Building
- 10.00 Introduction to COMIS
- 11.00 Introduction to IISiBat
Lunch
- 13.30 Workshop I: Air flow modelling
Coffee break
- 16.30 Presentation/Discussion of COMIS simulation results
- 17.00 End
- 19.00 Workshop dinner (not included in registration fee)

Friday, January 26, 2001

- 09.00 Short introduction to TRNSYS
- 09.30 Coupling of COMIS and TRNSYS
Coffee break
- 11.00 Workshop II: Combined airflow and thermal modelling
Lunch
- 13.30 Workshop II continued
Coffee break
- 16.30 Presentation/Discussion of COMIS/TRNSYS simulation results
- 17.00 End

■ Lecturers

Viktor Dorer, Masch. Ing. ETH, EMPA Dübendorf, Energy Systems/Building Services, Switzerland

Anne Haas, Ph.D., EMPA Dübendorf, Energy Systems/Building Services, Switzerland

Werner Keilholz, Ph.D., Project Manager CSTB Sophia Antipolis, EVL Division, France

Andreas Weber, Ing. HTL, EMPA Dübendorf, Energy Systems/Building Services, Switzerland

■ COMIS 3.1 w. IISiBat

All participants are offered one COMIS 3.1 w. IISiBat license for a reduced price of \$ 200.– instead of \$ 400.–.

Registration Form

Workshop COMIS 3.1 w. IISiBat & TRNSYS –

Combined Multi-Zone Air, Contaminant and Heat Transport Analysis

January 25 and 26, 2001, 09.00–17.00

Mirko-Roš-Zimmer, Bauhalle, EMPA Dübendorf

Please register **before January 03, 2001** using this registration form by mail or fax (+41 (0)1 823 40 09).

The workshop fee is Fr. 1200.– and includes VAT, lunch, coffee breaks and course material.

All substitutions, cancellations and refund requests should be made in writing. Full refunds will be granted through January 3, 2001. Refund requests received after January 3, 2001 will be considered on an individual basis following the workshop. All refunds are subject to a Fr. 200.– processing fee.

The number of participants is limited to 16.

Course material is distributed during the course.

Surname, Name _____

Title/Position _____

Company/Institution _____

Address _____

Phone _____

Fax _____

Email _____

I need hotel accomodation. Please send me information.