

SHORT COURSE
in
3-D VELOCIMETRY AND IMAGE TECHNIQUES

March 1 - 3, 1995

PROGRAM

Location: ETH-Hönggerberg, Building HIL, Room D 53
(see attached maps)

Public Transportation: Bus line 69 from Bucheggplatz

Wednesday, March 1, 1995

8.15 - 8.30	Registration	
8.30	Welcome and opening address	Th. Dracos
8.55 - 9.00	3-D velocimetry, its importance and applications	Th. Dracos
9.00 - 9.30	New developments in hot-wire anemometry	E. Hayes
9.30 - 10.00	Development of vorticity probes	G. Lemonis
10.00 - 10.30	Coffee break	
10.30 - 12.00	-Construction principles of multi-hot-wire probes -Calibration of multi-hot-wire probes -Determination of the velocity components and their derivatives -Performance tests -Future developments	G. Lemonis
12.00 - 13.30	Lunch	
13.30 - 15.00	Probe production	G. Lemonis
15.00 - 15.30	Coffee break	
15.30 - 17.00	Performance of a calibration and analysis	G. Lemonis

Thursday, March 2, 1995

8.30 - 9.15	Videogrammetry: Methodology and applications	A. Grün
9.15 - 10.00	Particle image velocimetry (PIV), its possibilities and limitations	E. Hayes
10.00 - 10.30	Coffee break	
10.30 - 11.00	Particle tracking velocimetry (PTV), its possibilities and limitations	Th. Dracos
11.00 - 12.00	Data processing and calibration techniques in a 3-D videogrammetric PTV system	H.-G. Maas
12.00 - 13.00	Lunch	
13.00 - 13.45	Particle tracking for the establishment of 3-D velocity fields and particle trajectories	D. Papantoniou

13.45 - 14.30	Establishment of a videogrammetric PTV system	M. Virant
14.30 - 15.00	Coffee break	
15.00 - 17.00	Hands-on laboratory work	M. Virant E. Hayes

Friday, March 3, 1995

8.30 - 9.15	Fractal geometry and chemical reactions	F. Rys
9.15 - 10.00	Importance of flow tomography	P. Rys
10.00 - 10.30	Coffee break	
10.30 - 11.00	Principles of 3-D tomographic imaging by LIF	G. Merkel
11.00 - 12.00	Least squares matching: a new technique for accurate tracking of 3-D tomography patterns	H.-G. Maas
12.00 - 13.30	Lunch	
13.30 - 14.00	Implementation aspects of 3-D least squares matching	T. Stephanidis
14.00 - 14.45	Realisation of a LIF tomography system and analysis of 3-D concentration and flow data	G. Merkel
14.45 - 15.15	Coffee break	
15.15 - 17.00	Hands-on laboratory work	G. Merkel

Lecturers

Dracos, Themistocles, Professor, Dr., IHW, ETH-Hönggerberg, Zürich, Switzerland

Grün, Armin, Professor, IGP, EtH-Hönngerberg, Zürich, Switzerland

Hayes, Edward, Dr., DANTEC, Skoviunde, Denmark

Lemonis, Georg, IHW, ETH-Hönggerberg, Zürich, Switzerland

Maas, Hans-Gerd, Dr., IGP, ETH-Hönggerberg, Zürich, Switzerland

Merkel, Gerhard, LTC, ETH-Hönggerberg, Zürich, Switzerland

Papantoniou, Dimitris, Ph.D., Athens Technology Center, Kifissa, Greece

Rys, Franz, Professor, Dr., LTC, ETH-Zentrum, Zürich, Switzerland

Rys, Paul, Professor, Dr., LTC, ETH-Zentrum, Zürich, Switzerland

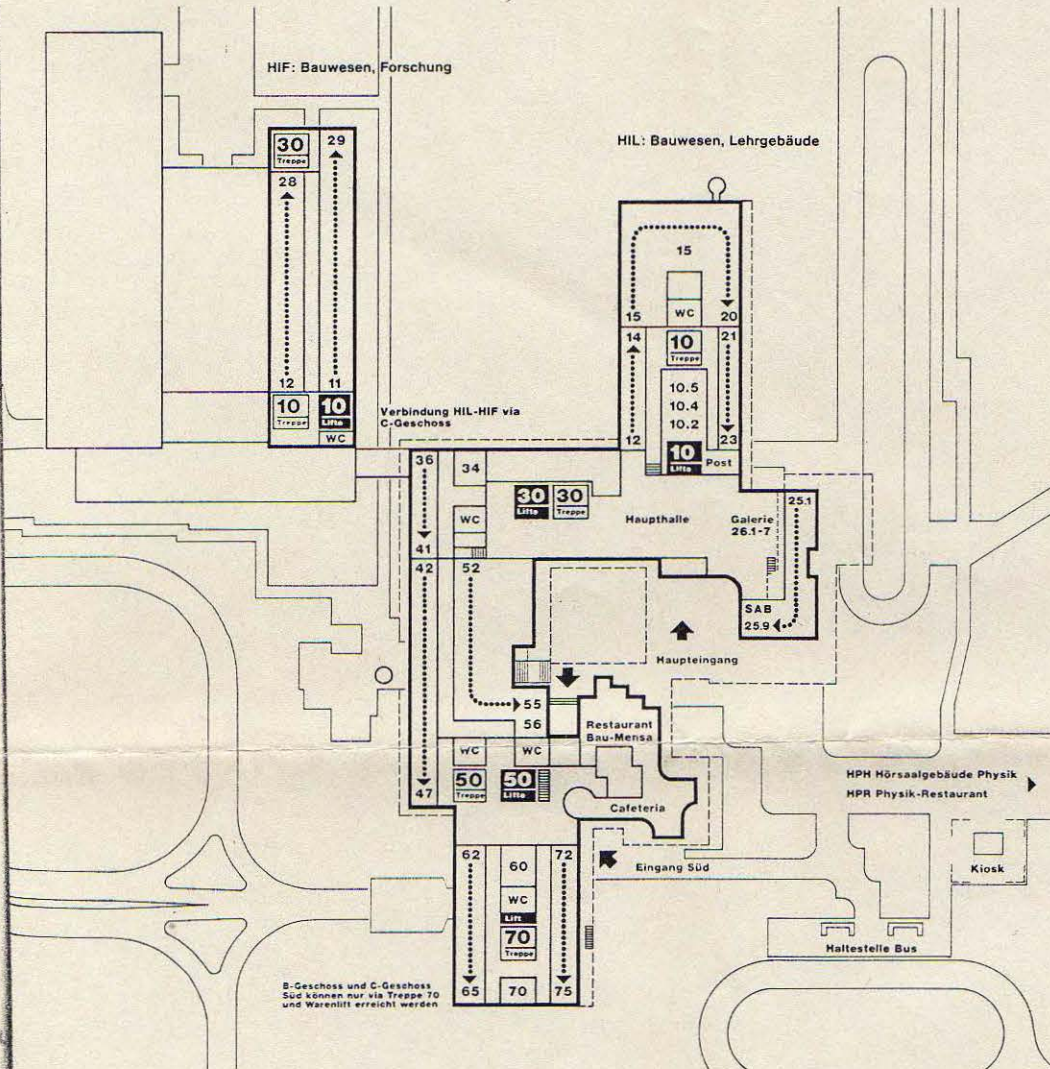
Stefanidis, Anthony, Dr., IGP, ETH-Hönggerberg, Zürich, Switzerland

Virant, Marko, IHW, ETH-Hönggerberg, Zürich, Switzerland

BUILDING HIL, ROOM D-53

ETH Höggerberg

Bauwesen HIL · HIF
D - Geschoss

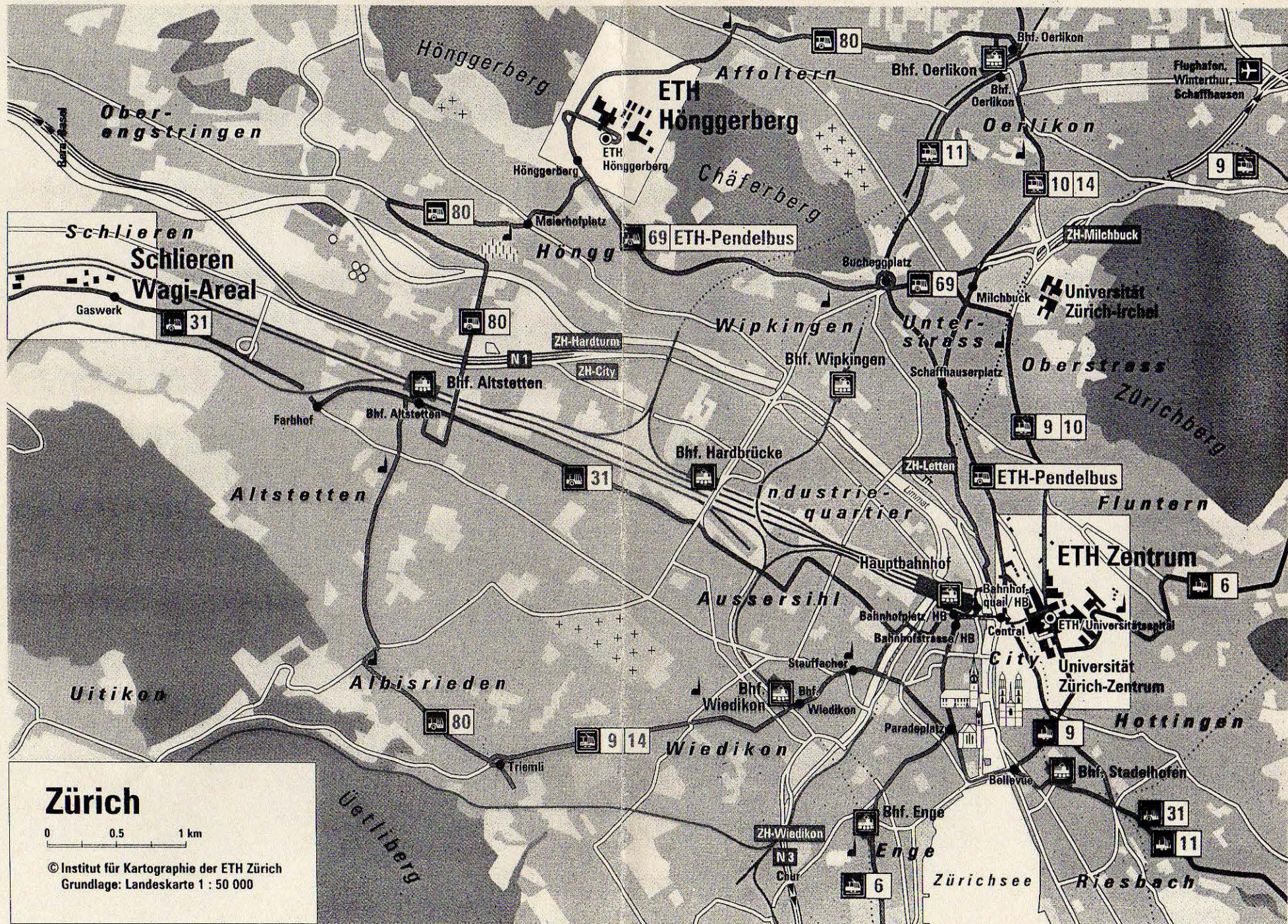


Legende

B-TO 1977

- Geschosse: Buchstabe
 Räume: Buchstabe + Zahl, 1- oder 2-stellig zum Teil mit Dezimale
 Haupttreppen: 10 Treppe, 30 Treppe, 50 Treppe, 70 Treppe
 Lift: 10 Lift, 30 Lift, 50 Lift
 Numerierungsfolge: aufsteigend

- Eingänge, Ausgänge:
 Behinderten-WC: E-Geschoss E56.2 HIL bei der Liftgruppe 50
 Münz-Kopiergerät:
 Standort:
 Masstab:



Institut für Hydromechanik und Wasserwirtschaft
Prof. Dr. T. Dracos

Zürich, 6 February, 1995

2608

HIL-Gebäude G 37.3
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ETH-Hönggerberg
CH-8093 Zürich

Mr. Michele Mossa
Poltechnic of Bari
Water Eng. Dept.
Via E. Ora Bona 4
70125 Bari
Italy

Dear Mr. Mossa

Enclosed you will find the program of the *Short Course in 3-D Velocimetry and Image Analysis Techniques*, which will open on

Wednesday, March 1, 1995, at 8.15 with the registration, in room D 53, HIL building, ETH-Hönggerberg, Zürich

Maps showing the location of the ETH-Hönggerberg and the location of room D 53 in the HIL building are enclosed.

Regarding the payment of the registration fee of SFr. 700.- (which includes course material, lunch, coffee and coffee break refreshments) we would appreciate it if you could either send us a bank cheque made out to our institute or transfer the amount onto postal account nr. 30-1171-7 Bern, ETH-Zürich, in favour of our institute, credit nr. 1-67-201-91. For all Swiss residents we are enclosing a postal payment form, already completed. When paying from abroad, please do not forget to indicate all information requested.

We have already sent you a map of Zürich with a hotel guide which should assist you in making a hotel reservation. The ETH-Hönggerberg can be reached either by private car (parking lots in underground garage, marked "Bauwesen", subject to tax) or by public bus nr. 69 from Bucheggplatz or bus nr. 80 from Meierhofplatz or Oerlikon railway station.

We look forward to meeting you at our course.

Sincerely



Prof. Dr. Th. Dracos