



Eurotrans Gear Technology Training

Current state and future of Gear Technologies
How to apply in practice - Case studies

Date	May 15-16, 2025, 2 days.
Location	HWZ University, Lagerstrasse 5, 8004 Zurich, Switzerland.
Target audience	Design and development, research and testing, production and quality management. Basic gear knowledge is an advantage but not a requirement.
Language	English.
Certificate	Each participant receives an Eurotrans Training Certificate .

- Why to attend**
- ✓ Meet top European experts from Industry and Academia
 - ✓ Upgrade your expertise for your professional advancement
 - ✓ Practical relevance
 - ✓ Bring your specific topics with you for round table discussions
 - ✓ Networking - meet your peers

With lecturers from 7 companies and 1 university:

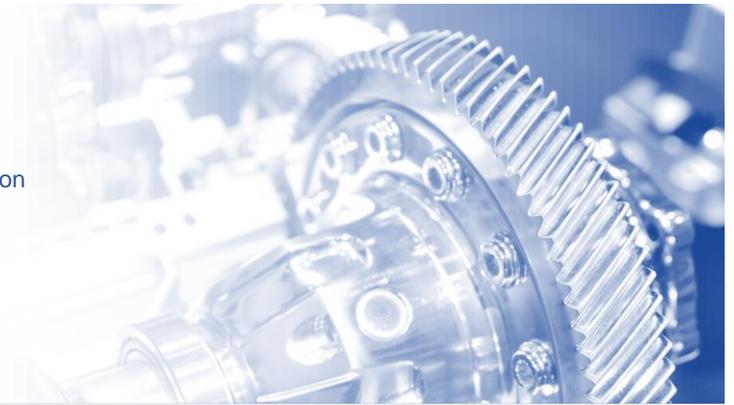


Thursday 15/05/2025**Room No. 606, HWZ University, Lagerstrasse 5, 8004 Zurich**

Time	Topic	Content	Lecturer
09:00-09:10	Opening	Welcome, introduction, information.	André Thuswaldner President Eurotrans
09:10-10:10	Efficient gearbox modeling, sizing and calculation	Procedure, tools, automation of iteration steps, digital twin, REXS data interface, AI /ML. Optimization of load capacity, contact analysis, noise and vibration harshness. Practical examples.	Ing. Cengiz Yilmaz KISSsoft AG
10:10-10:30	Break		
10:30-11:30	Simulation of lubrication	Understanding effects when starting or when continuously operating at high or low speed, in skewed position with oil injection, oil splash or grease lubrication. Determining and minimizing power losses during the design process with advanced coupling of FVM and SPH simulation. Practical examples.	Dr. Patrick Neuenfeldt SADEN GmbH
11:30-12:30	Modern gear materials	Latest technologies in plastics and additive manufacturing of gears. Added value on gear load capacity, cost, noise, sustainability. Practical examples.	Dr. Hans-Joerg Dennig ZHAW
Lunch			
13:30-14:30	Advanced gear manufacturing methods	Optimizing design and manufacturing within a closed-loop system, innovative manufacturing methods, latest simulation tools for production, valuable hints for design and development. Practical examples.	Ing. Marcel Hautle Sauter, Bachmann AG
14:30-14:50	Break		
14:50-16:00	Round table	Discuss your specific topics with your peers and lecturers.	André Thuswaldner Novagear AG
18:30	Evening Program (optional)	Zurich at Night + Networking Dinner Meeting Point Zurich Main Station (Zurich HB)	

Friday 16/05/2025**Room No. 305, HWZ University, Lagerstrasse 5, 8004 Zurich**

Time	Topic	Content	Lecturer
09:00-10:00	Gear Technology Keynote	"Technology drivers for high torque gearboxes from the perspective of a small gearbox designer."	Ing. Urs Giger Giger Gear Systems GmbH
10:00-10:30	Break		
10:30-11:30	The key role of bearings	New standard ISO 16281:2025-01 for bearing life calculation, non-linear stiffness based on true inner geometry, rotor displacements, optimization of preload, influence of casing stiffness on bearings. Practical examples.	Ing. Markus Raabe MESYS AG
11:30-12:30	New generation of lubricants	Trends in gear applications, quality requirements, efficiency improvements, material compatibility, sustainability, lubricant analysis. Practical examples.	Dr. Markus Kurzwart MOTOREX AG
Lunch			
13:30-14:30	Predictive maintenance	Standards, sensors, measurement on the gearbox, data evaluation, AI in use today. Practical examples.	Dr. Rudolf Tanner Mechmine LLC
14:30-14:50	Break		
14:50-15:50	Round table	Discuss your specific topics with your peers and lecturers.	André Thuswaldner Novagear AG
15:50-16:15		Summary, conclusion, survey.	
16:15		Individual journey home.	



Costs

EUR 850.- (CHF 800.-) plus VAT for members of Eurotrans partner associations.
EUR 1100.- (CHF 1050.-) plus VAT for non-members.
EUR 300.- (CHF 280.-) plus VAT for students.

Eurotrans partner associations are AGORIA (Belgium), ARTEMA (France), ASSIOT/FEDERTEC (Italy), BGA (United Kingdom), MIB (Türkiye), SWISSMEM (Switzerland), TIF (Finland) and VDMA (Germany).

The costs cover the complete training package, including 2 x lunch, refreshments throughout the days, 1x evening program and 1 x dinner acc. to schedule.

Hotel and travel expenses are **not** included.

Accommodation

Each participant is responsible for arranging and booking their own accommodation.

We recommend the following hotels close to the HWZ University:

- Hotel Olympia Zurich***, Badenerstrasse 324, 8004 Zurich
- Hotel Montana Zurich***, Konradstrasse 39, 8005 Zurich
- Hotel California Zurich***, Schifflande 18, 8001 Zurich
- easyHotel Zurich Main Station**, Klingenstrasse 33, 8005 Zurich
- ibis budget Zurich City West*, Technoparkstrasse 2, 8005 Zurich

Registration

Please write an email to training@novagear.ch with following information: Your first and second name, occupation/function, company name, postal address, participation in evening program yes/no. You will receive a confirmation with the training program and invoice.

Invoice payable up to 20 days before the start of the training.

Registration closes April 20, 2025.

Number of participants is limited. Registrations will be considered in the order in which they are received.

Cancellation

No charge, if cancelled at least 15 days before the start of the training.

For cancellations at least 7 days before the start of the training, 50% of the registration fee will be refunded.

No refund will be made for cancellations received less than 7 days before the start of the training, however replacement of a registered person is possible.

Contact

This EUROTRANS Gear Training is organized in cooperation with Novagear AG. For information and support email to: training@novagear.ch (Mr. André Thuswaldner)