

Eurotrans Gear Training 2016

A complete Gear Training Programme on Master Level (English spoken)

Although the Power Transmission Engineering industry is an important industry branch, universities fail to develop appropriate courses. In Europe, a mechanical engineer gets on average 5 hours of gear training. This is far too less to be effective in industry. Moreover, gear trainers are becoming rare due to retirement and non replacement. Therefore, EUROTRANS identified the remaining top gear trainers and developed an extensive modular Gear Training covering all aspects from geometry and design over production to quality control and failure analysis. Addressing an European audience, this residential training is organised in several locations in close connection with famous gear laboratory.

Week 1: Geometry and design (postponed to mid October 2014)

Week 2: Production, will be announced later

Week 3: Quality and Failure (13-17 June 2016)

Week 4: Advanced design, will be announced later

*Please find the detailed programme for **week 3** below.*

If you wish to subscribe, please use the subscription form at the end of this folder.

Room reservations should be made directly with the hotel.



Week 3: Quality and Failure

When? 13 – 17 June 2016

Where? Newcastle, United Kingdom (Design Unit)

*Accommodation? Please confirm your room reservation directly to the hotel, preferably, one month before the start of the course. Hotel information is included at the end of this folder. Accommodation is **not** included in the price!*

*Social programme? The training package **includes** evening **dinners** and **social activities**.
The social programme can be subject to change.*

Monday AM		Travel		
Monday PM	MEASUREMENT	Gear quality	Introduction to gear measurement and a review of the benefits and limitations of different measurement methods and equipment.	Rob Frazer (DU)
Tuesday AM	MEASUREMENT	Gear quality	An introduction to gear accuracy standards, evaluation of measurement results and compliance with a standard.	Rob Frazer (DU)
Tuesday PM	MEASUREMENT	Interpretation of results.	Analyses of deviations of profile, helix, pitch results and identifying the causes of the manufacturing errors.	Rob Frazer (DU)
Wednesday AM	MEASUREMENT	Good practice	Measurement methods, management of equipment, calibration and measurement uncertainty.	Rob Frazer (DU)
Wednesday PM	TRIBOLOGY	Tribology of gear mesh,	Oil film, friction coefficients, roughness, material, oil qualities and qualification, heat generation, efficiency...	Michel Octrue (CETIM)
Thursday AM	TRIBOLOGY	Lubrication systems in gear transmissions and coatings	Thermal rating and power losses - micropitting, scuffing for different applications in a range of speeds, sizes, shaft arrangements and environments...	Michel Octrue (CETIM)
Thursday PM	MAINTENANCE	Maintenance practice of gears	Good practice in maintenance of gear transmissions.	Michel Octrue (CETIM)
Friday AM	MAINTENANCE	Monitoring gear transmissions – Failure analysis	Monitoring gear performance in the field. Analysis of typical gear failures (incl. standards).	Michel Octrue (CETIM)
Friday PM	Travel			

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EUROTRANS GEAR TRAINING

WEEK 3 “QUALITY AND FAILURE”

Newcastle (UK), 13 – 17 June 2016

INSCRIPTION FORM

> Form to be returned at least **7 days before the start of the course** (or **30 days for early bookings**) to **Marleen Poelmans**, Diamant Building, bd A.Reyers ln 80, 1030 Brussels, by fax 02/706 79 88 or by e-mail to marleen.poelmans@agoria.be

Mr./Mrs.

Function

Company

Address

E-mail

Tel. Fax.

VAT Nr

Participation fee:

- 2000 EUR (vat excl.) per person for early bookings at least **30 days before** the start of the training
- 2200 EUR (vat excl.) per person for late bookings at least **7 days before** the start of the training
- 2700 EUR (vat excl.) per person for organisations non-member of EUROTRANS associations disregarding date of registration**

From the 2nd and consequent inscription from the same company a 100€ reduction will automatically be granted.

An invoice will be sent to you upon receipt of your registration from **Design Unit** for week 3

Invoice address if different from the above:

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Cancellation conditions:

- > No charge if cancelled at least 30 days before the start of the course
- > For cancellations at least 7 days before the start of the course, 50% of the inscription fee will be refunded
- > No refund will be made for cancellations received after 7 days before the start of the course, however replacement of a registered person is possible
- > **In case of insufficient inscriptions, the course will be cancelled and refunded.**

Date and Signature:

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WEEK 3 “QUALITY AND FAILURE”

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HOTEL INFORMATION

Please confirm your room reservation directly to the hotel, preferably one month before the start of the course. Accommodation is **not** included in the price!

We recommend the following hotels:

Mercure Newcastle George Hotel

Distance: 7.90 miles (12.7 km) from the Newcastle University
Stone Cellar Road High Usworth Washington
NE37 1PH Newcastle

Tel 00 44 1914 029988

Fax 00 44 19114 151166

Mail: reservation@georgewashington.co.uk or h7552@accor.com

Holiday Inn Newcastle Jesmond

Distance: 0.56 miles (0.90 km) from the Newcastle University
Jesmond Road
NE2 1PR Newcastle upon Tyne, Tyne and Wear

Tel 00 44 871 942 9200

Fax 00 44 871 942 9102

Mail: yvette.edwards@ihg.com

The New Northumbria Hotel

Distance: 1.50 miles (2.4 km) from the Newcastle University
Osborne Road, Jesmond 61-73
NE2 2AN Newcastle Upon Tyne

Tel 00 44 191 281 4961

Fax 00 44 191 281 8588

Mail: info@thenewnorthumbriahotel.co.uk