



TA Instruments Training Courses

Thermogravimetric Analysis (TGA)

Program

Two types of TGA training courses are available:

The **TGA maintenance training** is mainly hands-on, and is designed for the operator of the instrument. Focus is on calibration and maintenance of the equipment, and proper use of the software. It is highly recommended to have already some practical experience before attending this course.

The **theoretical TGA training** is lecture based. It is designed to help the researcher/lab manager in choosing optimum measurement conditions and performing interpretation of the results. Moreover, a general overview of the use of TGA in multiple fields is presented.

TGA Maintenance Training

This training is mainly hands-on and is designed for the operator to get familiar with basic maintenance and calibration of the TGA. Equipment covered: Q5000IR, Q500, Q50 TGA (February 15), TGA 5500, TGA 550, TGA 55, Discovery TGA (December 7).

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|---------------|--|
| 08.45 – 09.00 | Registration – coffee |
| 09.00 – 12.30 | Introduction technique and instrumentation Calibration and verification (mass, temperature) Optimisation and importance of baseline Choice of purge gas, flow rate, pan type Tips for optimum use of data analysis software <i>If possible please bring your laptop with UA or TRIOS installed on it.</i> |
| 12.30 – 13.30 | Lunch |
| 13.30 – 17.00 | Maintenance of the TGA: <ul style="list-style-type: none">– Removing and cleaning a dirty furnace and cleaning pans– Replacing the hangdown wire and hangdown loop– Replacing the thermocouple– Calibrating the autosampler– Maintaining the heat exchanger |



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Theoretical TGA Training

This training is lecture based and designed to provide a general review on the importance of experimental parameters, different applications and operating modes of the TGA. This training is to a big extent brand independent.

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|---------------|--|
| 09.15 – 09.30 | Registration – coffee |
| 09.30 – 12.00 | Introduction technique and instrumentation Calibration: theory Optimisation of experimental conditions Typical applications (thermal stability, compositional analysis) |
| 12.00 – 13.00 | Lunch |
| 13.00 – 16.00 | Hi-Res™ TGA: – Introduction – Different modes and their application domain – Choice of parameter settings – Applications Modulated™ TGA, Kinetics: – Theory – Choice of experimental conditions – Applications TGA-EGA: – Principle (coupling to MS, FTIR) – Applications Tips for optimum use of data analysis software |
| 16.00 – | Question session |



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Practical Information

- Location: Application lab TA Instruments
Brusselsesteenweg 500, 1731 Zellik (B)
- Language: The course language is English.
- Notes: Notes are provided at the start of the day.
- Registration fee: Registration fee is 800 Euro (theoretical) or 1050 Euro (practical) per day, per person.
- Lunch is included.
 - Participation is free of charge for users who recently bought new equipment, with a maximum of 2 persons (excluding optional hotel fare). Participation is also free of charge for customers with an Academic, Premium or Lifetime Support Plan.
 - Universities/schools receive 100 Euro discount on the registration fee.
 - An invoice for course registration (if applicable) will be sent after the course.
- Hotel: Hotels located close to our office are:
- Salons Waerboom (Groot-Bijgaarden), www.waerboom.com
(A room in the main hotel is the most convenient, not in the aparthotel.)
 - Gosset Hotel (Groot-Bijgaarden), www.gosset.be
- Info: For all additional questions please contact Line Vanden Eede
B: +32-2-7060080
NL: +31-76-5087270
Lvandeneede@tainstruments.com



TA Instruments Training Courses

Registration Form

Mail to: belgium@tainstruments.com or netherlands@tainstruments.com

Name:

Company:

Department:

Address:

ZIP Code:

City:

Phone:

Fax:

E-mail:

I want to register for the [theoretical TGA training](#) on ___ June 1, 2017, in Zellik

I want to register for the [maintenance TGA training](#) on ___ February 15, 2017, in Zellik (Q Series)
___ December 7, 2017, in Zellik (Discovery Series)

TGA model that you're using: _____
e.g. Q500, TGA 5500

Registration fee for the course:

___ Free of charge (user of new equipment)

___ Free of charge (academic, premium or lifetime support plan)

___ 1050 Euro (practical training)

___ 800 Euro (theoretical training)

___ 100 Euro discount (University/school only)

As a confirmation of your registration you will receive at latest a week prior to the course a road description to our application lab.