



2020 TRAINING COURSES

THERMOGRAVIMETRIC ANALYSIS (TGA) & SIMULTANEOUS TGA/DSC (SDT)

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/SDT 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/SDT in multiple fields is presented.

TGA MAINTENANCE TRAINING

This training is mainly hands-on and designed for the operator to get familiar with basic maintenance and calibration of the TGA. **Equipment covered: TGA5500, TGA550, TGA55, Discovery TGA.**

08.45 – 09.00	Registration/coffee
09.00 – 12.30	<ul style="list-style-type: none">• 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 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• Replacing the thermocouple• Calibrating the autosampler• Maintaining the heat exchanger

THEORETICAL TGA/SDT 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/SDT. **This training is to a big extent brand independent.**

09.15 – 09.30	Registration/coffee		
09.30 – 12.00	<ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• Introduction• Different modes and their application domain• Choice of parameter settings• Applications	Modulated TGA™, Kinetics; Modulated DSC®, SDT: <ul style="list-style-type: none">• Theory• Choice of experimental conditions• Applications	TGA-EGA: <ul style="list-style-type: none">• Principle (coupling to MS, FTIR)• Applications
16.00 – 17.00	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 900 Euro (theoretical) or 1200 Euro (maintenance) 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
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