



## 2018 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 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"> <li>• Introduction technique and instrumentation</li> <li>• Calibration and verification (mass, temperature)</li> <li>• Optimisation and importance of baseline</li> <li>• Choice of purge gas, flow rate, pan type</li> <li>• Tips for optimum use of data analysis software</li> </ul> <p><i>If possible please bring your laptop with Trios installed on it.</i></p>
12.30 – 13.30	Lunch
13.30 – 17.00	<p><b>Maintenance of the TGA:</b></p> <ul style="list-style-type: none"> <li>• Removing and cleaning a dirty furnace and cleaning pans</li> <li>• Replacing the hangdown wire</li> <li>• Replacing the thermocouple</li> <li>• Calibrating the autosampler</li> <li>• Maintaining the heat exchanger</li> </ul>

#### 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.

09.15 – 09.30	Registration/coffee		
09.30 – 12.00	<ul style="list-style-type: none"> <li>• Introduction technique and instrumentation</li> <li>• Calibration: theory</li> <li>• Optimisation of experimental conditions</li> <li>• Typical applications (thermal stability, compositional analysis)</li> </ul>		
12.00 – 13.00	Lunch		
13.00 – 16.00	<p><b>Hi-Res™ TGA:</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Different modes and their application domain</li> <li>• Choice of parameter settings</li> <li>• Applications</li> </ul>	<p><b>Modulated™ TGA, Kinetics:</b></p> <ul style="list-style-type: none"> <li>• Theory</li> <li>• Choice of experimental conditions</li> <li>• Applications</li> </ul>	<p><b>TGA-EGA:</b></p> <ul style="list-style-type: none"> <li>• Principle (coupling to MS, FTIR)</li> <li>• Applications</li> </ul>
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 1200 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](http://www.waerboom.com)  
(A room in the main hotel is the most convenient, not in the aparthotel.)
  - Gosset Hotel (Groot-Bijgaarden), [www.gosset.be](http://www.gosset.be)
- INFO:** For all additional questions, please contact Line Vanden Eede  
B: +32-2-7060080  
NL: +31-76-5087270  
[Lvandeneede@tainstruments.com](mailto:Lvandeneede@tainstruments.com)



**REGISTRATION FORM**  
THERMOGRAVIMETRIC ANALYSIS (TGA)

Mail completed form to: [Lvandeneede@tainstruments.com](mailto:Lvandeneede@tainstruments.com)

NAME :

COMPANY :

DEPARTMENT :

ADDRESS :

ZIP CODE :

CITY :

PHONE :

FAX :

EMAIL :

I want to register for the theoretical TGA training on \_\_\_\_\_ May 29, 2018, in Zellik

I want to register for the maintenance TGA training on \_\_\_\_\_ March 7, 2018, in Zellik

*TGA55xx, Discovery TGA* \_\_\_\_\_ September 27, 2018, in Zellik

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)
- \_\_\_\_\_ 1200 Euro (maintenance 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.*