



2018 TRAINING COURSES

DIFFERENTIAL SCANNING CALORIMETRY (DSC)

PROGRAM

Two types of DSC training courses are available:

The DSC maintenance training is mainly hands-on, and is designed for the operator of the instrument. Focus is on basic 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 DSC training is mainly lecture based, with only a brief hands-on session. 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 DSC in multiple fields is presented.

MAINTENANCE DSC TRAINING

1 day

This training is mainly hands-on and designed for the operator to get experience in doing basic maintenance of his DSC. Equipment covered: DSC2500, DSC250, DSC25, Discovery DSC.

08.45 – 09.00	Registration/coffee
09.00 – 12.30	<ul style="list-style-type: none"> • Maintenance of the DSC: <ul style="list-style-type: none"> • Cleaning a dirty furnace, lid, gripper fingers • Aligning the autolid • Autosampler calibration • Gases and flow rates • Optimum use and maintenance of the cooling accessory • Troubleshooting
12.30 – 13.30	Lunch
13.30 – 17.00	<ul style="list-style-type: none"> • Calibration & verification (Tzero, baseline, heat flow, temperature) • Optimisation of experimental conditions • Tips for optimum use of the data analysis software <p><i>If possible please bring your laptop with Trios installed on it.</i></p>

THEORETICAL DSC TRAINING

2 days

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

DAY 1

09.15 – 09.30	Registration/coffee
09.30 – 12.00	<ul style="list-style-type: none"> • Introduction technique and instrumentation • Thermodynamic principles • Design of experimental method • Calibration: theory
12.00 – 13.00	Lunch
13.00 – 16.30	Optimisation of experimental conditions (purge gas, sample preparation, choice of pan type, heating & cooling rate)
16.30 – ...	Question session

DAY 2

09.15 – 09.30	Registration/coffee
09.30 – 12.00	<ul style="list-style-type: none"> • Measuring conditions for typical material classes • The glass transition temperature • Melting and crystallization
12.00 – 13.00	Lunch
13.00 – 16.30	<ul style="list-style-type: none"> • How to measure heat capacity? • Miscellaneous applications • Introduction to Modulated DSC
16.30 – ...	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 per person is 1600 Euro for the two days course and 1200 Euro for the one day maintenance course.
- 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 per day.
 - 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



REGISTRATION FORM

DIFFERENTIAL SCANNING CALORIMETRY (DSC)

Mail completed form to: Lvandeneede@tainstruments.com

NAME :

COMPANY :

DEPARTMENT :

ADDRESS :

ZIP CODE :

CITY :

PHONE :

FAX :

EMAIL :

I want to register for the theoretical DSC training on _____ April 18 – 19, 2018, in Zellik
_____ September 5 – 6, 2018, in Zellik
_____ December 4 – 5, 2018, in Zellik

I want to register for the DSC maintenance training on _____ March 6, 2018, in Zellik
DSC25xx, Discovery DSC _____ September 26, 2018, in Zellik

DSC model that you're using:
e.g. Q2000, DSC 2500

Registration fee for the course:

- _____ Free of charge (user of new equipment)
- _____ Free of charge (academic, premium, or lifetime support plan)
- _____ 1600 Euro (theoretical 2-days course)
- _____ 1200 Euro (maintenance 1-day course)
- _____ University/school discount (100 Euro per day)

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