

**REGISTRATION FORM      FAX:      +49(0)40/52 95 67-99 or**  
**E-mail:      info@sensologic.de**

I would like to sign up for the training course

## **Chemometric Spectroscopy: Basics and Multivariate Analysis for Quantitative and Qualitative Applications**

from 03.04.2019 01:00 p.m. to 05.04.2019 12:00 a.m. in Norderstedt, Price EUR 950,- plus VAT (if applicable).  
Depending on the number of participants (max. 15) the training course will be held either on the *SensoLogic*  
premises or in a hotel nearby. We will inform you about the location in time.

For practical exercises we recommend to use your own laptop. If this will not be possible, please contact us in  
due time.

### Participant:

Last Name, First Name, Title: .....  
Company / Organization: .....  
Street: .....  
Postal Code, Location: .....  
Phone: .....  
Fax: .....  
E-mail: .....

### Invoice Recipient: (please complete this section in case of difference to participant data)

Company / Organization: .....  
Department: .....  
Street: .....  
Postal Code, Location: .....  
Phone: .....  
Fax: .....  
E-mail: .....  
Signature: .....

### **Terms & conditions of participation:**

The participation fee includes training material as well as a welcome dinner, lunch on the 2<sup>nd</sup> day and snacks  
during breaks. Costs for travelling and accommodation are not included in the fee.

After receiving your registration we will send you our confirmation. After the training course you will receive  
the invoice, payable immediately after receipt. The registration period ends seven days before the course.

Terms of cancellation: Cancellation without charge is possible up to four weeks before the training course.  
If your registration is cancelled after that period, we reserve the right to charge up to 80% of the course fee.

### **Confirmation of participation by *SensoLogic* GmbH:**

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SensoLogic GmbH Software + Sensor Systeme	Phone: +49(0)40/52 95 67-0 Fax: +49(0)40/52 95 67-99	Registered office: Norderstedt Amtsgericht Kiel HRB 4122 NO
Hummelsbütteler Steindamm 78A 22851 Norderstedt	E-mail: info@sensologic.de URL: http://www.sensologic.de	Managing Director: Dr. Heinrich Prüfer, Kaltenkirchen

### Summary

The training course is designed as an introduction to multivariate calibration and classification, but also helps you to refresh your existing knowledge in the field of chemometric spectroscopy in a systematic approach. The complete workflow, from collecting spectroscopic data to the application of methods in routine work, is covered in theory and applied in practical exercises by using *SL* products.

Participants will get to know the *SL* database and the most important functions of the *SL* product family. However, some topics are equally useful for users of other software packages.

Prior knowledge in instrumental analysis is necessary, but knowledge of chemometrics and its methods is not required.

The training course will be held in English.

### Course Instructor

**Dr. Heinrich Prüfer,**

Dipl. Chem., Managing Director at *SensoLogic*, has over 30 years of experience in chemometric methods and spectroscopy.

### Topics

1. Chemometric spectroscopy such as NIRS in laboratory, field and industrial process analysis: Common ground and differences
2. Modelling: Raw data make all the difference.
3. All inclusive: The *SL* database concept
4. The Emperor's new suit: Multivariate regression models become transparent
5. Start small - win big: Derivatives and other techniques of data pre-processing
6. Cross-Validation & Co. – Pre-testing and quality characterization of calibration models
7. Outlier diagnostics and models for qualitative analysis
8. Test, test, test – Validation
9. How can I trust? – Measurement uncertainty and other diagnostics for quality assurance with *SL Predictor*
10. The never-ending story: Calibration transfer and maintenance

Final discussion