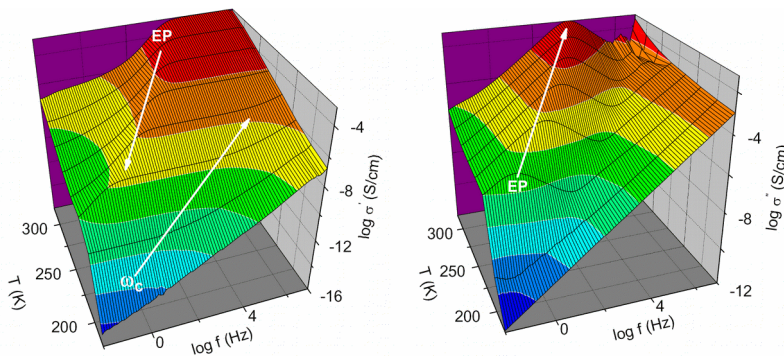


Under the  
Guidance of

Prof. B. Roling

and

Prof. F. Kremer



## Seminar and Training Course on Broadband Dielectric and Electro- chemical Impedance Spectroscopy

October 10-12, 2018

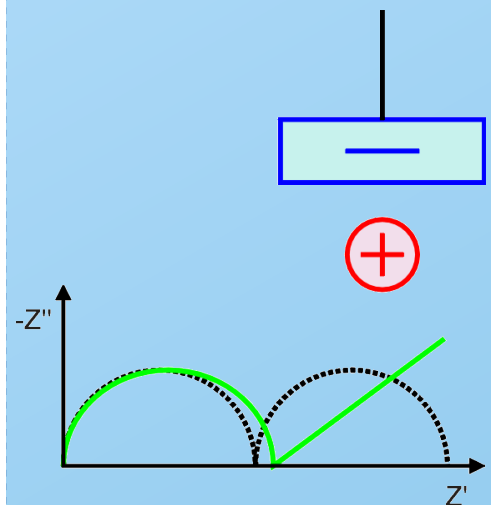
**Novocontrol Technologies**  
Montabaur, Germany

### Including

- Basics of Ion and Electron Transport in Solids
- Ion Transport in Nanostructured Materials: Bulk and Interfacial Processes
- Dynamics in Geometrically Confined Systems
- Electrode Polarisation and Electrochemical Double Layer Formation
- Characterisation of Processes in Modern Electrochemical Cells (Batteries, Supercapacitors, Fuel Cells)
- Latest Developments in Instrumentation
- Hands-on Measurements

**novocontrol** Technologies

Novocontrol Technologies  
GmbH & Co. KG  
Aubachstr. 1  
56410 Montabaur  
Germany  
Phone: +49 2602 9196690  
Fax: +49 2602 91966933  
e-mail: [novo@novocontrol.de](mailto:novo@novocontrol.de)  
web: <http://www.novocontrol.de>



**novocontrol** Technologies

## Organization

### Travelling to Montabaur

By air via Frankfurt/Main (FRA) or via Cologne/Bonn (CGN) (85 km away)

By train to Montabaur ICE (high-speed train) station.

By car to Novocontrol Technologies (Aubachstr. 1, 56410 Montabaur).

### Accommodation

Attendants will have to book a hotel according to their convenience by themselves. We recommend to make a reservation at the nearby [Hotel Schlemmer](#). Three lunches, coffee breaks and two dinners are included in the registration fee.

### Venue

The course will take place in the new premises of Novocontrol Technologies. The Montabaur train station is within walking distance (600 m). Most hotels are within walking distance (800 m to 1300 m). Taxi transfers can be arranged if required.

### Fees

€ 1800 for industrial attendants, € 850 for academic attendants.

### Registration (deadline: September 17, 2018)

Please register using the [registration form](#).

We also kindly ask you to fill our [questionnaire for attendees](#) and submit the filled form to the address given.

## Preliminary Schedule

### Wednesday, October 10

Time	Lecturer	Topic
12.30 – 13.30		Informal lunch and Welcome Coffee
13.30 – 13.45	B. Roling, F. Kremer	Words of Introduction, Organisational Issues
13.45 – 15.45	B. Roling	Basic Introduction to Broadband Dielectric and Impedance Spectroscopy (for participants with little or no experience)
13.45 – 15.45	F. Kremer	Introduction to Broadband Dielectric Spectroscopy (for participants with more experience)
15.45 – 16.15		Coffee Break
16.15 – 18.00		Hands-on Experience and Discussions: Participants perform and evaluate their own experiments, if possible on their own samples.
19:00		Dinner

**Thursday, October 11**

<b>Time</b>	<b>Lecturer</b>	<b>Topic</b>
8.30 – 12.30		Hands-on experience and Discussions
12.30 – 13.30		Informal Lunch
13.30 – 14.30	F. Kremer	Glassy Dynamics in Low-Molecular Weight and Polymeric Systems
14.30 – 15.30	B. Roling	Materials Characterisation: Analysis of Charge Transport and Electrochemical Processes
15.30 – 16.00		Coffee Break
16.00 – 17.00	D. Wilmer	New Developments in Instrumentation
17.00-18.00		Open Discussion
19.00		Dinner

**Friday, October 12**

<b>Time</b>	<b>Lecturer</b>	<b>Topic</b>
8.30 – 12.30		Hands-on Experience and Discussions
12.30 – 12.45	B. Roling, F. Kremer	Closing Remarks
12.45		Informal Lunch