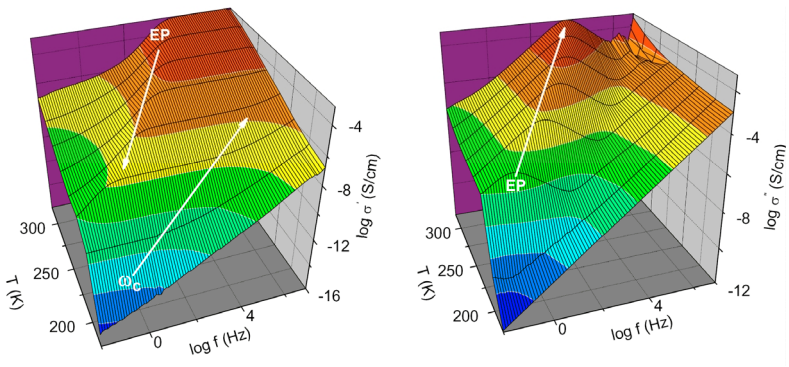


Seminar and Training Course on Broadband Dielectric and Electrochemical Impedance Spectroscopy

September 26 – 28, 2011

Department of Chemistry
University of Marburg
Marburg, 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

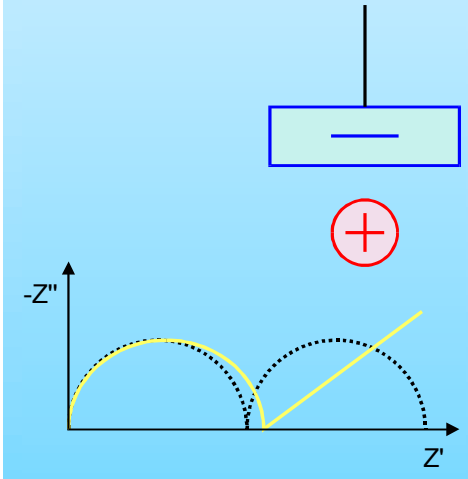
novocontrol Technologies
Novocontrol Technologies
GmbH & Co. KG
Obererbacherstr. 9
56414 Hundsangen
Germany
Phone: +49 6435 9623-0
Fax: +49 6435 9623-33
e-mail: novo@novocontrol.de
web: http://www.novocontrol.de

Under the Guidance of

Prof. B. Roling

and

Prof. F. Kremer



novocontrol Technologies

Organization

Travelling to Marburg
International: via Frankfurt Main airport (FRA), by train from Frankfurt Airport Station (*Frankfurt(M) Flughafen Fernbf*) to Marburg main station (*Marburg (Lahn)*).
National: By train to Marburg main station (*Marburg(Lahn)*) or by car to the University (Uni Lahnberge, Hans-Meerwein-Straße)

Accommodation
Attendants will have to book a hotel according to their convenience by themselves. We recommend to make a reservation in the **Hotel Marburger Hof**. Three lunches, coffee breaks and two dinners are included in the registration fee.

Travelling to and from Marburg University
During the course, transfer between the Hotel Marburger Hof and the seminar site at Marburg University will be provided free of charge.

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

Registration (deadline: September 2, 2011)
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

Monday, September 26

Time	Lecturer	Topic
12.30 – 13.30		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 – ...		Hands-on Experience and Discussions: Participants perform and evaluate their own experiments, if possible on their own samples. In between: Informal Dinner

Tuesday, September 27

Time	Lecturer	Topic
8.30 – 12.30		Hands-on experience and Discussions
12.30 – 13.30		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

Wednesday, September 28

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

Schedule details subject to change.