

Seminar and Training Course on Broadband Dielectric and Electrochemical Impedance Spectroscopy

March 3-5, 2020

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

Preliminary Schedule

| Time | Lecturer | Topic |
|---------------------------------|-------------------------|---|
| Tuesday, March 3, 2020 | | |
| 12.30 – 13.30 | | Informal lunch and Welcome Coffee |
| 13.30 – 13.45 | B. Roling, F. Kremer | 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 |
| Wednesday, March 4, 2020 | | |
| 8.30 – 10.00 | | Hands-on Experience and Discussions |
| 10.00 – 11.00 | F. Kremer | Glassy Dynamics in Low-Molecular Weight and Polymeric Systems |
| 11.00 – 12.30 | | Hands-on experience and Discussions |
| 12.30 – 13.30 | | Informal Lunch |
| 13.30 – 14.30 | B. Roling | Materials Characterisation: Analysis of Charge Transport and Electrochemical Processes |
| 14:30 – 15.30 | | Hands-on Experience and Discussions |
| 15.30 – 16.00 | | Coffee Break |
| 16.00 – 17.00 | | Hands-on Experience and Discussions |
| 17.00 – 18.00 | | Open Discussion |
| 19.00 | | Dinner |
| Thursday, March 5, 2020 | | |
| 8.30 – 10.00 | | Hands-on Experience and Discussions |
| 10.00 – 11.00 | D. Wilmer | New Developments in Instrumentation |
| 11.00 – 12.30 | | Hands-on Experience and Discussions |
| 12.30 – 12.45 | B. Roling, F. Kremer | Closing Remarks |
| 12.45 | | Informal Lunch and Farewell |

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. Three lunches, coffee breaks and two dinners are included in the registration fee.

Venue

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

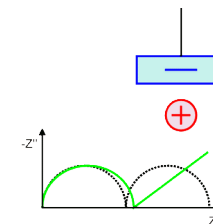
Fees

1.800,00 € for industrial attendants

850,00 € for academic attendants

Registration (deadline: February 10, 2020)

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.



novocontrol Technologies

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