

Dear Participants,

It is a great pleasure for us to invite you to the **8th Practical Course in "Transcranial magnetic and electrical stimulation"** within the framework of the training program of the German Neuroscience Society. The course is aimed at introducing the theoretical background and practical applications of transcranial magnetic and electrical stimulation to young researchers from all fields of neuroscience. Every effort will be taken to cover the broad spectrum of areas involved in non-invasive brain stimulation from animal experiments to clinical trials, and to highlight recent developments in the field. Lectures will be presented by world renowned scientists, followed by practical exercises in order to emphasize the technical backgrounds. We are looking forward to meeting you in Göttingen,

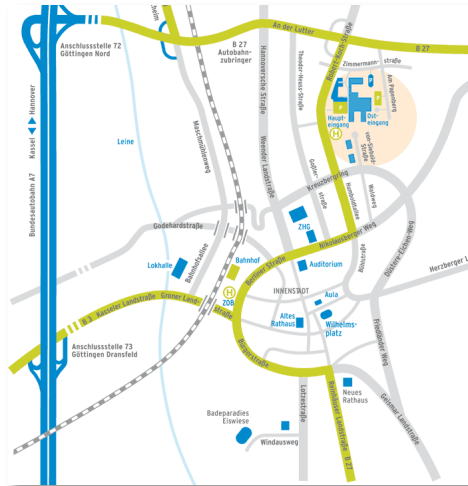
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Registration

You can find the registration form on our department website. Participation for NWG members is free of charge. Non-members have to pay 100€ registration fee. Between the seminars refreshments will be supplied. Lunch will be provided to all participants.



Travel Information

Göttingen is easily accessible with ICE train networks or using the A7 autobahn.

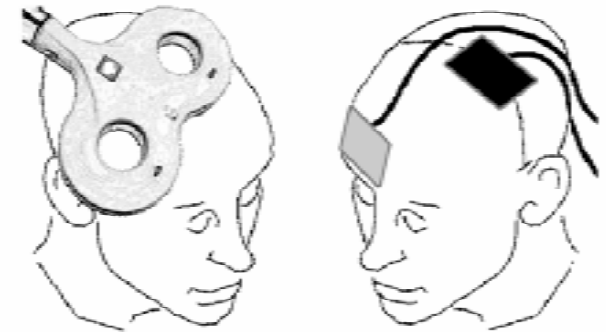
Accommodation

Please note that any accommodation requirements will have to be self-arranged.

NWG Practical Course

Transcranial Magnetic and Electrical Stimulation (TMS/tDCS/tACS/tRNS)

February 22 - 24, 2011



Venue

Universitätsmedizin Göttingen
Robert-Koch-Strasse 40
Hörsaal 04
37075 Göttingen
Germany



Course Program Transcranial Magnetic and Electrical Stimulation

Tuesday, February 22, 2011

- 13:00 *Welcome Note: W. Paulus*
- 13:15 *Historical and technical overview*
L. Chaieb
- 13:45 *Physiological background - Mono/biphasic TMS*
D. Czesnik
- 14:30 *Introduction to repetitive TMS, TBS*
M. Sommer
- 15:00 *Coffee Break*
- 15:30 *Physiological background - tDCS*
M. Nitsche
- 16:15 *New techniques: tACS, tRNS*
W. Paulus
- 16:45 **INVITED LECTURE**
Optimizing tDCS using computer modeling
M. Bikson, CUNY, New York
- 18:00 *Get Together*
- 19:00 *End of the 1st day*

Wednesday, February 23, 2011

- 9:00 *TMS and tDCS in cognitive neuroscience*
M. Nitsche
- 10:00 **INVITED LECTURE**
TMS/tDCS and the visual system
T. Kammer, Universitätsklinikum Ulm
- 10:30 *Coffee Break*
- 10:45 *TMS / tDCS and speech*
N. Neef
- 11:15 *Pharmacology –TMS, tDCS*
N. Thirugnanasambandam
- 12:00 *TMS/tDCS and EEG*
R. Polania
- 12:30 *Lunch*
- 13:30 **INVITED LECTURE**
TMS and fMRI
J. Baudewig, Freie Universität Berlin
- 14:30 *Practical exercises I, II & III*
(Please see the Registration Forms)
- 17:30 *End of the 2nd day*

Thursday, February 24, 2011

- 9:00 *Animal studies – tDCS, TMS*
D. Liebetanz
- 9:30 *Safety aspects – tDCS, TMS*
D. Liebetanz
- 10:00 *Coffee Break*
- 10:15 **INVITED LECTURE**
Homeostatic plasticity
U. Ziemann, Klinikum und Fachbereich Medizin J.W. Wolfgang Goethe-Universität Frankfurt am Main
- 11:15 *Present and future clinical application – TMS, rTMS*
M. Sommer
- 11:45 *tDCS in clinical research*
A. Antal
- 12:30 *Lunch*
- 13:30 *Practical exercises IV & V*
(Please see the Registration Forms)
- 15:30 *Future trends, Discussion*
W. Paulus
- 16:00 *End of the course*