

## Registration

You can find the registration form on our department website: <http://www.neurologie.uni-goettingen.de/index.php/fortbildung.html>. The registration fee is 400€ (for students 200€). Between the seminars refreshments will be supplied. Lunch will be provided to all participants. We kindly ask you to transfer the fee until the 15.01.2016 to the bank account given at the registration form.



## Travel

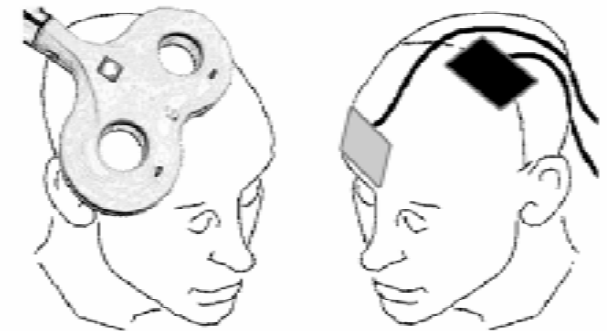
Göttingen is easily accessible with ICE train networks or using the A7 autobahn. The nearest international airport is in Hannover.

## Accommodation

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

## Theory and Practice of Transcranial Brain Stimulation (TMS, tDCS/tACS)

February 9 - 10, 2016



## Venue

Universitätsmedizin Göttingen / University  
Medical Center

Robert-Koch-Strasse 40

Lecture Hall 04  
37075 Göttingen

Germany

## Dear Participants,

It is a great pleasure for us to invite you to the Course "*Theory and Practice of Transcranial Brain Stimulation (TMS, tDCS/tACS)*". The course is aimed at introducing the theoretical background and practical applications of transcranial magnetic and electrical stimulation to the 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 and theoretical backgrounds. The conference will be held in English.

We are looking forward to meeting you in Göttingen,

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# Course Program “Theory and Practice of Transcranial Brain Stimulation”

## Tuesday, February 9, 2016

- 8:00 *Registration*
- 8:30 *Welcome note*  
W. Paulus (Göttingen, GER)
- 8:45 *Two hundred years of quantitative transcranial stimulation*  
W. Paulus (Göttingen, GER)
- 9:15 *Physiological background of TMS*  
M. Sommer (Göttingen, GER)
- 10:00 *Coffee break*
- 10:15 *Physiological background of tDCS*  
M. Nitsche (Dortmund, GER)
- 11:00 *Physiological background of tACS*  
I. Alekseichuk (Göttingen, GER)
- 11:30 *Blinding tCS studies*  
Z. Turi (Göttingen, GER)
- 12:15 *Lunch*
- 13:15 *Computational models in brain stimulation*  
A. Opitz (New-York, USA)
- 14:15 *Coffee break*
- 14:45 *Parallel practical sessions (S.I-III)*
- 15:30 *Coffee break*
- 15:45 *Parallel practical sessions (S.I-III)*

- 16:30 *Coffee break*
- 16:45 *Parallel practical sessions (S.I-III)*
- 17:30 *End of the day 1*

## Wednesday, February 10, 2015

- 9:00 *Electrical Stimulation in neurodegenerative diseases – new approaches*  
P. Kunz (Göttingen, GER)
- 9:30 *Coffee break*
- 9:45 *Automated next-generation TMS*  
M. Hewitt & J. Meinke (Göttingen, GER)
- 10:15 *tDCS/tACS and fMRI*  
P. Dechent (Göttingen, GER)
- 11:15 *Combining TMS and EEG to investigate cortical excitability and plastic modulations induced by tDCS*  
Pisoni (Milan, ITALY)
- 12:15 *Lunch*
- 13:15 *Interaction of transcranial magnetic (and electric) stimulation with task-related brain activity: Lessons from concurrent EEG and behavioural studies.*  
G. Thut (Glasgow, UK)
- 14:15 *Ethical and legal issues of tDCS/tACS*  
A. Antal (Göttingen, GER)

- 15:15 *Coffee break*
- 15:45 *Parallel practical sessions (S. IV-VI)*
- 16:30 *Coffee break*
- 16:45 *Parallel practical sessions (S. IV-VI)*
- 17:30 *End of the course*

## Parallel practical sessions

- S.I) Basic applications of TMS
- S.II) Basic applications of tDCS/tACS
- S.III) Electromagnetic field modeling
- S.IV) Clinical applications of TMS/TES
- S.V) Advance TMS in research
- S.VI) tDCS/tACS and fMRI in research