

## Dear Participants,

It is a great pleasure for us to invite you to the **15<sup>th</sup> Practical Course in "Transcranial magnetic and electrical stimulation"** within the framework of the training program of the German Neuroscience Society (NWG). 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 modelling 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,

A. Antal & W. Paulus

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## Registration

You can find the registration form on our department website:

[www.neurologie.uni-goettingen.de](http://www.neurologie.uni-goettingen.de).

Participation for NWG members is free of charge. The registration fee for non-members is 420€ and for students 200€. Between the seminars, refreshments will be supplied. Lunch will be provided to all participants.



## Travel Information

Göttingen is easily accessible by train or by car using the Autobahn A7. The closest airports are in Hannover and Frankfurt am Main.

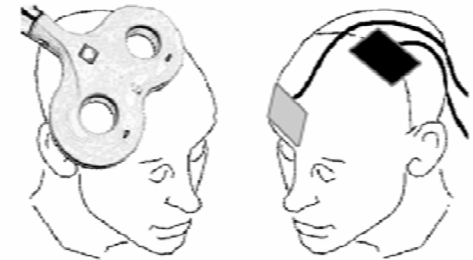
## Accommodation

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

## NWG Practical Course

### Transcranial Stimulation and Neuronal Oscillations

**February 19 - 21, 2018**



## Venue

University Medical Center  
Robert-Koch-Straße 40  
Lecture Hall 55  
37075 Göttingen  
Germany

Program of the 15 <sup>th</sup> Practical Course in "Transcranial Stimulation and Neuronal Oscillations"		
Monday, February 19, 2018	Tuesday, February 20, 2018	Wednesday, February 21, 2018
9:00 Welcome Note: 200 Years of Quantitative Transcranial Stimulation <i>W. Paulus</i>	9:00 What Can We Learn from Electrical Stimulation of Peripheral Nerves? <i>D. Czesnik</i>	9:00 Ethical and Legal Aspects of Transcranial Stimulation <i>J. Brockmüller</i>
9:45 Physiological Background of TMS & Repetitive TMS <i>M. Sommer</i>	9:45 Exploring the mechanisms and potential applications of tES through animal models <i>J. Márquez-Ruiz, Pablo de Olavide University, Seville, Spain</i>	10:00 Therapeutic Indications of tES <i>A. Antal</i>
10:45 Coffee Break	10:45 Coffee Break	10:45 Coffee Break
11:00 Physiological Background of tDCS <i>MA. Nitsche, Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany</i>	11:00 Combining Stimulation with fMRI <i>P. Dechent</i>	11:00 Therapeutic Indications of rTMS <i>C. Stephani</i>
12:00 Electrical Field Modelling <i>C. Wolters, University of Münster, Germany</i>	12:00 Functional network alterations in epilepsy <i>N. Focke</i>	12:00 Concluding Remarks <i>A. Antal</i>
13:00 Lunch	12:45 Lunch	12:30 Lunch
14:00 Physiological Background of tACS & tRNS <i>W. Paulus</i>	14:00 Practical Exercises III – VI (till 18:00) (Please see the Registration Form and the Schedule for Practical Exercises)	13:00 End of the Course
14:30 The effects of transcranial electric stimulation on cognition and learning <i>R. Cohen Kadosh, University of Oxford, UK</i>		
15:30 Coffee Break		
16:00 Practical Exercises I – II (till 18:00) (Please see the Registration Form and the Schedule for Practical Exercises)		
19:00 Guided Tour in Göttingen		